





Reading Sample

Organizational structures are the basis of everything in an SAP system. In Chapter 3, “Organizational Structures,” we explain generic SAP organizational units and also demonstrate the maintenance-specific organizational units that are required for other procedures.

-  “Organizational Structures”
-  Contents
-  Index
-  The Authors

Karl Liebstückel

Plant Maintenance with SAP: Business User Guide

689 Pages, 2017, \$79.95
ISBN 978-1-4932-1484-6

 www.sap-press.com/4310



Chapter 3

Organizational Structures

This chapter provides information about the essential elements for maintenance processing in the SAP system: the general organizational units, maintenance-specific organizational units, and work center.

The definition of an organizational structure comprises the following areas: the general SAP organizational units (for example, controlling area, company code, plant, storage location); the definition of maintenance-specific organizational units (for example, location or plant section); and finally, the definition of maintenance work centers (for example, mechanical workshop, electrical workshop, measurement, and control).

3.1 SAP Organizational Units

Organizational units form the basis of all master data and business processes in SAP ERP. In the following sections, you'll learn about the most important organizational units from a maintenance perspective.

Organizational Units in the SAP Project

If you implement Enterprise Asset Management (EAM), the general organizational units in the SAP system (for example, the company code, controlling area, and plant) are usually already defined. These units were defined when other applications, such as Controlling (CO), Material Management (MM), and so on, were implemented. Therefore, you can only influence the design if EAM is implemented from the outset or if you define separate organizational units from a pure maintenance perspective.



Functions of the plant

3.1.1 The Plant from a Maintenance Perspective

The plant is, without doubt, the most important organizational unit for plant maintenance. A plant fulfills several maintenance functions:

- A plant is responsible for planning maintenance activities. In this context, this plant is known as a *planning plant*. To convert a plant to a planning plant, you use the Customizing function **Maintain Planning Plant**.
- All of the technical objects to be maintained are physically present in a plant (functional location, equipment, and serial number). In this case, this plant is known as a *maintenance plant*. A plant becomes a maintenance plant if you create a technical object there. To assign the planning plant responsible for the maintenance plant, you use the Customizing function **Assign Maintenance Planning Plant**.
- You require a plant with a storage location in which you can store spare parts.
- Furthermore, some technical objects (serial numbers) can be stored in a plant with a storage location.

3.1.2 Maintenance-Specific Organizational Units

Maintenance plant-specific or planning plant-specific?

Additional maintenance-specific organizational units (either maintenance plant-specific or planning plant-specific) play an important role within a plant (see Figure 3.1).

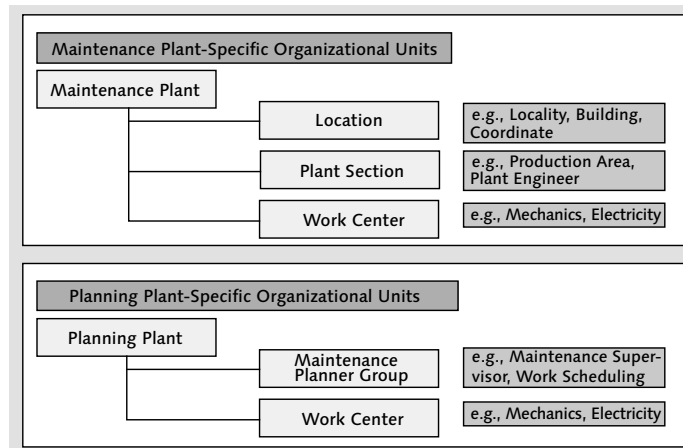


Figure 3.1 Maintenance Plant and Planning Plant

Technical objects (functional location and equipment) also contain all of the maintenance and planning plant-specific data, which is then copied to notifications and orders. This data is explained in more detail in this chapter.

Work centers perform maintenance tasks or are responsible for such tasks. Work centers relate either to the planning plant or the maintenance plant (see Section 3.2).

Work centers

A planner group is responsible for planning maintenance tasks and also relates to a planning plant. You maintain planner groups using the Customizing function **Define Planner Groups**.

Planner groups

Using Planner Groups

You can set up maintenance planner groups, for example, if you want to map work scheduling or individual maintenance planners known by name.



You must use a label to indicate the physical location of a technical object. You'll always define a location with reference to a maintenance plant. Furthermore, to maintain locations, you'll use the Customizing function **Define Location**.

Location

Naming Locations

In practice, either building numbers (for example, F141 or WDF21) or, if they exist, plant coordinates (for example, A01 or K15) are among the most commonly used locations.



You'll define the responsibilities associated with operating a (production) facility as a *plant section*. To maintain plant sections, you'll use the Customizing function **Define Plant Sections**.

Plant sections

Responsibilities for the Plant Section

In practice, either the plant engineer responsible for the asset or the production area belonging to the asset have proven themselves as plant sections.



3.1.3 Other General Organizational Units

In addition to the maintenance-specific organizational units, other general organizational units are also relevant for EAM.

Company codes You'll assign a company code to the plant (see Figure 3.2). The company code is the smallest organizational unit for which a complete, self-contained set of accounts can be drawn up for the purposes of external reporting ("the company"). These accounts record all relevant transactions and generating balance sheets and profit and loss statements.

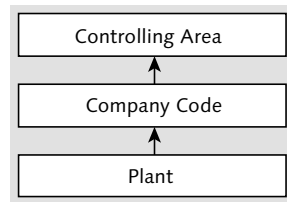


Figure 3.2 General Organizational Units

When you assign a technical object to a maintenance plant, the technical object will be automatically assigned the plant's company code in the background.

Controlling areas The controlling area is an organizational unit within a company for which a self-contained cost accounting can be performed. A controlling area may include one or more company codes.

When you assign a technical object to a maintenance plant, you not only create its company code, but you also determine its controlling area. Similarly, when you assign a work center to a plant, you also assign its controlling area.



Controlling Areas Involved

From a plant maintenance perspective, ideally the controlling area of the technical object and the controlling area of the work center are identical.

You may now be wondering why using controlling areas is a good idea. We'll explain why in the next section.

3.1.4 Plant-Specific and Cross-Plant Maintenance

For business processes in plant maintenance, you'll need to differentiate between order planning and execution in the same plant and order planning and execution in different plants.

Plant-Specific Maintenance

In practice, the most frequently encountered situation is where the maintenance requirement is planned in the plant in which it originates, the orders are fulfilled by workshops in the same plant, and the spare parts are stored within the same plant. In Figure 3.3, this plant is known as Plant 1000. The following applies here: maintenance plant = planning plant = spare parts storage.

Requirements, planning, and execution in the same plant

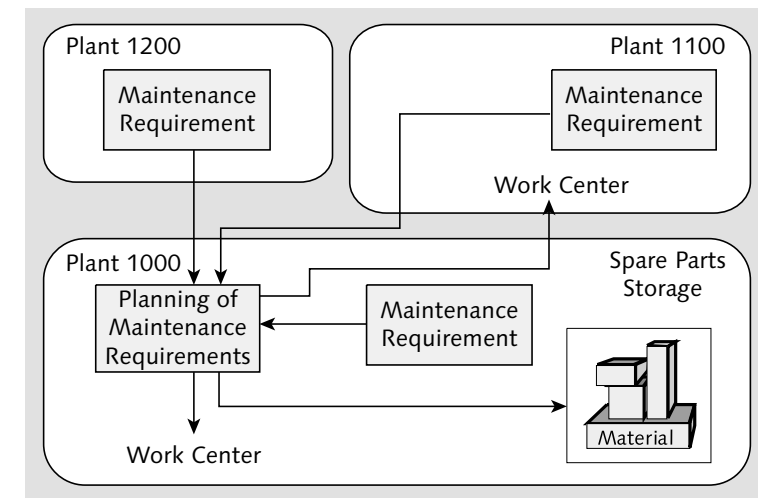


Figure 3.3 Plant and Plant Maintenance

Cross-Plant Maintenance

In contrast to plant-specific maintenance, other situations may involve more than one plant, for example:

Requirements and execution in different plants

- You may have a plant (for example, Plant 1200 in Figure 3.3) where an asset is maintained (the maintenance plant), but all other functions (planning, order execution, and spare parts storage) are the responsibility of another plant (for example, Plant 1000).

- You may have a plant (for example, Plant 1100) where additional partial functions (order execution) are also the responsibility of this plant, but other partial functions (order planning and spare parts storage) are the responsibility of other plants (for example, Plant 1000).

Cross-plant maintenance is not difficult if the maintenance plant of the technical object and the plant of the executing work center are in the same company code.

The same applies if the plants are in different company codes but belong to the same controlling area, which is also a standard scenario.

Different controlling areas

However, a problem arises if the plants belong to different controlling areas. This case involves a customer–vendor relationship rather than a standard scenario. Therefore, in this case, the maintenance plant (customer) has to trigger purchase orders, and the plant of the work center (vendor) triggers a sales order and its associated invoice. The billing document is entered in turn as an incoming invoice in the maintenance plant—tedious process overall. How can we simplify the process?



Plants in Different Controlling Areas

If you implement cross-plant maintenance and your plants are in different controlling areas, the following approach is recommended:

- In the work center plant, create a cost center for the actual maintenance plant.
- Assign all of the technical objects to the work center plant (as a maintenance plant) and to this cost center.
- Process all maintenance orders in the work center plant.
- Manually issue periodic invoices (for example, monthly) from the work center plant whereby the customer maintenance plant is debited the amount and the cost center is credited the same amount.

This procedure saves you from having to create purchase orders, sales orders, and individual invoices as well as posting individual incoming invoices.

3.2 Work Centers

From a maintenance perspective, a work center represents either an individual person (for example, the engineer M. Huber) or a workshop, thus, a group of persons. In practice, the following workshops are most commonly used:

Definition and basic principles

3

- Mechanical workshops
- Electrical workshops
- Measurement and control
- Machine centers
- Welding workshops
- Paint shops
- Cleaning lines
- Building services engineering

No Individual Persons as Work Centers

Avoid using individual persons as work centers. You could jeopardize your chances of capacity planning. Furthermore, work center data requires a great deal of maintenance. For person-specific responsibilities, use partner functions (see Chapter 4, Section 4.2.10).

If you nevertheless record work centers for each person, please note the legal regulations for each country. In Germany, for example, you can only do this if you have given your employee representatives a written company agreement in which, among other things, you state that the information will not be used to compare employee performance.



In plant maintenance, work centers are used as the:

- Responsible work center in the equipment master record and functional location master record
- Responsible work center in a maintenance item
- Responsible work center in the header of a task list
- Performing work center in the operations of a task list
- Responsible work center in the notification

- Responsible work center in the order header
- Performing work center in the operations of an order



Need for Work Centers

Work centers are the individual master records that you must create in order to use EAM. You can implement business processes, for example, without technical objects (functional locations, equipment, and so on), but not without work centers.

Creating a Work Center

You can use Transaction IRO1 to maintain work centers. In this transaction, you would first assign a work center number and then assign the work center to a plant.



Choice of Work Center Numbers

Frequently, you'll have to specify the work center in EAM processing. Therefore, you should keep work center numbers as short as possible (for example, M for mechanical workshop, E for electrical workshop, and so on).

Basic data

The work center contains information that is essential for EAM processing (see Figure 3.4). Work centers contain basic data. You maintain this data on the **Basic Data** tab.

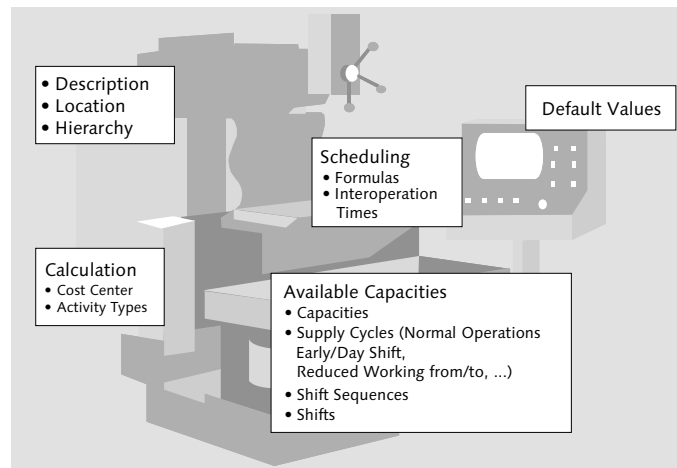


Figure 3.4 Contents of a Work Center



Characteristics of the Task List Usage

When maintaining basic data for a work center, make sure that you set the task list usage to 004 (maintenance tasks lists) or 009 (all task list types), so that the work center can be used in EAM processing.

Furthermore, the standard value key must be set to "SAP0," so that standard values such as setup times or machine times are not required later.

Defaults

Work centers contain default values that are copied into the operations or referenced when creating maintenance task lists and maintenance orders. Referencing means that the data cannot be changed in the maintenance task list. You maintain default values on the **Default Values** tab. The most important default value is the control key via which you can subsequently control the following in the order:

- Whether the operation is to be part of costing
- Whether the operation is to be scheduled
- Whether the operation is to generate capacity requirements
- Whether a confirmation is expected for the operation
- Whether the operation should be processed externally
- Whether service specifications are to be set up in the operation

You maintain the control key in Customizing using the function **Maintain Control Key**.



Using the Control Key

Using the control key, you can control in detail the business functions that an operation should have (cost, print, confirm, assign externally, schedule, and so on).

You'll require at least two control keys, namely, a key for internal processing and a key for external processing. You can use other control keys as required.

You should always define the control key in the work center as a default value so that you do not always have to manually enter it in the task list and order.

Scheduling data Work centers contain scheduling data required for lead time scheduling. You maintain scheduling data on the **Scheduling** tab (see Figure 3.5).

Execution time	
Setup formula	<input type="text"/>
Processing formula	<input type="text"/>
Teardown formula	<input type="text"/>
Other formula	SAP004  Proj: Durat.Int.proc

Figure 3.5 Scheduling



Formula for the Duration of Internal Processing

If you want to schedule the orders later, your work center requires a formula in the **Duration of Internal Processing** field. This formula must point to the **DAUNO** field, that is, to the duration from the operation. The formula SAP004 is defined in the standard SAP version.

You can check or define the formula for the duration of internal processing using the Customizing function **Define Formula Parameters for Work Centers**.

Available capacity Work centers contain available capacity data required for capacity planning. Available capacity specifies which service provides capacity for each work day. A capacity is always assigned to a work center and, in plant maintenance, is generally expressed in hours per week. The capacity data is maintained on the **Capacities** tab (see Figure 3.6).

Overview	
Capacity category	002 Labor
Pooled capacity	<input type="text"/> Mechanical Crew for M
Setup formula	<input type="text"/>
Processing formula	<input type="text"/>
Teardown formula	<input type="text"/>
Other formula	SAP008 Proj:Reqmts int.prcg
Distribution	<input type="text"/>
Int. dist. key	<input type="text"/>


Figure 3.6 Capacities



Formula for the Requirements of Internal Processing

If you subsequently want to execute capacity planning for your work center, your work center requires a formula in the field **Requirements of Internal Processing**. This formula must point to the **ARBEI** field, that is, the work from the operation. In the standard system, this formula is SAP008.

You can check or define this using the Customizing function **Define Formula Parameters for Work Centers**.

In the work center, the available capacity is maintained on the **Capacities** tab by clicking the  **Capacity** button. Figure 3.7 shows which information you can specify for the available capacity.


Standard available capacity			
Start	08:00:00	Capacity utilization	<input type="text"/> 75
Finish	17:00:00	No. of indiv. cap.	<input type="text"/> 8
Length of breaks	01:00:00	Capacity	<input type="text"/> 48.00 
Operating time	6.00		

Figure 3.7 Available Capacity

Most required details, for example, the **Work Start**, **Work Finish**, **Length of Breaks**, **Number of Individual Capacities** (number of craftsmen) fields, are not critical and are easily determined.

If you work in different time periods with different staff assignments, you can maintain intervals and also define multilayer models.

The rate of capacity utilization is critical: This rate specifies (in %) the portion of gross capacity available to the craftsmen (net) for planned orders. Several factors can lower the capacity utilization rate, such as:

- Additional, necessary personal time (restroom breaks, unplanned breaks, work meetings, and so on)
- Illness
- Leave
- Unplanned orders

The proportion of unplanned orders can only be roughly estimated and is thus a critical factor in maintenance.



Rates of Capacity Utilization in Practice

Without considering unplanned orders, a rate of capacity utilization of between 65% and 75% is most common in practice.

To account for unplanned orders, you have two options:

- You can consider them in the capacity utilization rate, which is then reduced according to the proportion of unplanned orders to a value between 30% and 50%.
- You can reserve some personnel beyond the number of individual capacities specified in the available capacity (that is, the number of craftsmen) and deploy them only for unplanned orders, so that the data specified in the available capacity is available only for planned orders.

Costing Work centers contain costing data that enables you to cost operations; this data is maintained on the **Costing** tab (see Figure 3.8).

You can check or define this using the Customizing function **Define Formula Parameters for Work Centers**.

Validity					
Start date	11/21/1994	End Date	12/31/9999		
Link to cost center/activity types					
Controlling Area	2000	CO N. America			
Cost Center	4300	Plant Maintenance			
Activities Overview					
Alt. activity descr.	Activity Type	Activity Unit	R...	Form...	Formula description
▼			<input type="checkbox"/>		
▼			<input type="checkbox"/>		
▼			<input type="checkbox"/>		
▼			<input type="checkbox"/>		
▼			<input type="checkbox"/>		
<input type="checkbox"/> SAP008 Proj:Reqmts int,prcg					

Figure 3.8 Costing



Prerequisites for Costing

If you subsequently want to perform costing for your work center, your work center requires the following:

- A cost center
- An activity type
- A formula in the field **Requirements for Internal Processing**. This formula must point to the ARBEI field, that is, the work from the operation. In the standard system, the formula SAP008 is used.

Chapter 6, Section 6.2.8, provides information on how to define the associated allocation record in Controlling.

Contents

Preface to the Fourth Edition	15
Preface to the First Edition	17
1 About This Book	19
<hr/>	
1.1 Target Audience	21
1.2 What This Book Can and Cannot Do	22
1.3 Structure of This Book	23
2 Plant Maintenance and SAP: A Contradiction?	27
<hr/>	
2.1 Plant Maintenance Today: New Ideas Need New Space	28
2.2 New Maintenance Terminology	30
2.3 Maintenance Strategies over Time	34
2.4 Plant Maintenance over Time in SAP	37
2.5 SAP ERP 6.0	38
2.6 SAP GUI and SAP Business Client	43
2.6.1 Connection Options	43
2.6.2 General Functions	45
3 Organizational Structures	51
<hr/>	
3.1 SAP Organizational Units	51
3.1.1 The Plant from a Maintenance Perspective	52
3.1.2 Maintenance-Specific Organizational Units	52

3.1.3	Other General Organizational Units	54
3.1.4	Plant-Specific and Cross-Plant Maintenance	55
3.2	Work Centers	57
4	Structuring of Technical Systems	65
4.1	Actions before Mapping Your Technical Systems in the SAP System	66
4.1.1	Question 1: Which Structuring Resources Should Be Used?	66
4.1.2	Question 2: How Deep Should the Structure Be?	68
4.1.3	Question 3: Which Criteria Should Be Applied to the Structuring of Technical Systems?	71
4.1.4	Question 4: On Which Structure Level Should a Particular Resource Be Used?	71
4.1.5	Question 5: How Are Numbers Assigned?	76
4.1.6	Question 6: Which Information Should You Store?	78
4.1.7	Question 7: How Is the Master Data Incorporated into the SAP System?	79
4.1.8	Question 8: Is It Easy to Delete Data Records?	79
4.1.9	Question 9: Which of the Functions Available Should Be Used?	80
4.1.10	Question 10: Which Strategy Should You Pursue When Recording Master Data?	80
4.2	SAP Resources for Structuring Technical Systems and How to Use Them	81
4.2.1	Functional Locations and Reference Functional Locations	81
4.2.2	Equipment and Serial Numbers	92
4.2.3	Links and Object Networks	103
4.2.4	Linear Asset Management	104
4.2.5	Material and PM Assemblies	112
4.2.6	Bills of Materials	119
4.2.7	Classification	123

4.2.8	Product Structure Browser	130
4.2.9	Asset Viewer	131
4.2.10	Special Functions	132
5	Business Processes	161
5.1	What You Should Do before You Map Your Business Processes in the SAP System	162
5.1.1	Question 1: Which Functions Should You Use?	162
5.1.2	Question 2: Should You Use a Notification and/or an Order?	163
5.1.3	Question 3: Which Information Should You Store?	167
5.1.4	Question 4: How Can You Ensure That Users Accept the System?	168
5.1.5	Question 5: What Role Does Business Process Modeling Play?	168
5.1.6	Question 6: When Should You Include the Other User Departments?	169
5.2	“Planned Repairs” Business Process	170
5.2.1	Notification	172
5.2.2	Planning	189
5.2.3	Controlling	221
5.2.4	Processing	235
5.2.5	Completion	237
5.3	“Immediate Repairs” Business Process	247
5.3.1	Creating Order (with Notification) and Completion	249
5.3.2	Special Case: “After-Event Recording”	252
5.3.3	Confirming Unscheduled Tasks	253
5.3.4	Historical Order	254
5.4	Shift Notes and Shift Reports	256
5.5	“External Assignment” Business Process	263
5.5.1	Basic Principles of External Assignment	263
5.5.2	External Processing as an Individual Purchase Order	266

5.5.3	External Services with External Work Centers	271
5.5.4	External Processing with Service Specifications	275
5.6	“Refurbishment” Business Process	280
5.7	“Subcontracting” Business Process	291
5.8	“Preventive Maintenance” Business Process	299
5.8.1	Basic Principles of Preventive Maintenance	299
5.8.2	Objects of Preventive Maintenance	302
5.8.3	Maintenance Task Lists	305
5.8.4	Preventive Maintenance, Time-Based	315
5.8.5	Preventive Maintenance, Performance-Based	336
5.8.6	Preventive Maintenance, Time-Based and Performance-Based	345
5.8.7	Inspection Rounds	353
5.9	“Condition-Based Maintenance” Business Process	360
5.10	“Calibration of Test Equipment” Business Process	364
5.11	“Follow-Up Order” Business Process	375
5.12	“Pool Asset Management” Business Process	377
5.13	“Project-Based Maintenance” Business Process	385
5.13.1	SAP Project System	386
5.13.2	Maintenance Event Builder	392
6	Integrating Applications from Other Departments	397
6.1	How Other Departments Are Involved	397
6.2	Integration within SAP ERP	398
6.2.1	Materials Management	399
6.2.2	Production Planning and Control	408
6.2.3	Digression: In-house Production of Spare Parts for Stock	413
6.2.4	Quality Management	418

6.2.5	Environment, Health, and Safety	419
6.2.6	Financial Accounting	421
6.2.7	Asset Accounting	423
6.2.8	Controlling	427
6.2.9	Real Estate Management	437
6.2.10	Human Capital Management	440
6.2.11	Service and Sales	445
6.3	Integration with Other SAP Systems	448
6.3.1	SAP NetWeaver Master Data Management	448
6.3.2	SAP Master Data Governance	450
6.3.3	SAP Supplier Relationship Management	454
6.4	Integration with Non-SAP Systems	457
6.4.1	Operations Monitoring Systems	457
6.4.2	Operations Information Systems	460
6.4.3	Service Specifications and Entry of Services Performed	463
7	Plant Maintenance Controlling	467
7.1	What Plant Maintenance Controlling Involves	467
7.2	SAP Tools for Obtaining Information and How to Use Them	471
7.2.1	SAP List Viewer	472
7.2.2	QuickViewer	480
7.2.3	SAP ERP Logistics Information System	485
7.2.4	SAP Business Warehouse	494
7.2.5	SAP BusinessObjects Lumira	506
7.3	SAP Tools for Budgeting and How to Use Them	512
7.3.1	Order Budgeting	512
7.3.2	Cost Center Budgeting	514
7.3.3	Budgeting with IM Programs	515
7.3.4	Budgeting Using WBS Elements	518
7.3.5	Maintenance Cost Budgeting	522

8	New Information Technologies in Plant Maintenance	531
8.1	Electronic Parts Catalogs	532
8.2	New Technologies in the User Interface	534
8.2.1	SAP 3D Visual Enterprise Viewer	534
8.2.2	SAP Fiori	537
8.2.3	Quick Views	540
8.3	Mobile Maintenance	542
8.3.1	Fundamentals of Mobile Maintenance	542
8.3.2	Paging	548
8.3.3	SAP Work Manager	550
8.3.4	SAP Rounds Manager	559
8.3.5	SAP Fiori Apps for Plant Maintenance	560
8.3.6	RFID	566
8.4	SAP HANA	569
8.4.1	Introduction to SAP HANA	569
8.4.2	SAP HANA and Maintenance	573
8.5	SAP S/4HANA	575
8.6	SAP Predictive Maintenance and Service	578
8.7	SAP Asset Intelligence Network	581
9	Usability	591
9.1	What Is Meant by Usability?	592
9.2	Assessing Usability	597
9.3	Why Usability Does Not Mean User Acceptance	598
9.4	The Importance of User Acceptance in Plant Maintenance	601
9.5	SAP System Options to Improve Usability	604
9.5.1	General User Parameters	605
9.5.2	Maintenance-Specific User Parameters	606
9.5.3	Roles and Favorites	608

9.5.4	List Variants	610
9.5.5	Customizing Input Help	610
9.5.6	Buttons and Key Combinations	611
9.5.7	Table Controls	612
9.5.8	Transaction Variants	615
9.5.9	Customizing	617
9.5.10	Action Box	618
9.5.11	GuiXT	620
9.5.12	SAP Screen Personas	621
9.5.13	Upstream Transactions	625
9.5.14	Web Interface	628
9.5.15	Customer Exits	629
9.5.16	Other Programming Techniques	631
9.6	Usability Study for SAP ERP 6.0	634
9.6.1	Preparation and Execution	634
9.6.2	Results	639
9.6.3	Conclusions	644
	Appendices	647
A	List of Sources	649
B	Overviews	655
C	The Author	671
D	Acknowledgments	673
	Index	675

Index

(F4) help 610
3D model 143, 534, 557

A

ABC analysis 478, 490
Account assignment 656
Action 241, 656
Action box 618
Action log 246, 312
Activity 217, 308
Activity type 427, 428
Actual costing 431
Address 69, 86, 148, 177, 186, 190
Address management 148
ADPMPS Workbench 391
Advance shipment of spare parts 446
After-event recording 252
Agency server 551
Aggregation level 470
Annual estimate 336
App for iPhone and iPad 537, 628
ASCII handheld device 547
Asset Accounting 665
Asset accounting 423, 665
Asset Lifecycle Management 37
Asset master record 423
Asset number 424
Asset under construction 423, 518
Asset value 426
Asset Viewer 131, 132
Assignment of documents 186, 209
Attachment list 146, 219
Availability check 193, 226, 400
 dynamic 227
 global 228
 material 227
 production resources/tools 227
 static 227
 status 230
Availability control 512, 513, 517,
 520, 528

active 521
 passive 521
Available capacity 60, 224, 409

B

BAdI 631
BAPI 465, 626
BAPI Explorer 627
Bar chart 202
BCS 36, 362, 457, 458, 666
BEx 497
Bill of material
 equipment bill of material 68, 120
 functional location BOM 68, 120
 use 121
Bill of material (BOM) 68, 74, 75, 462
BOM
 material BOM 68, 120
 multiple BOM 122
 spart parts BOM 120
 variant BOM 122
BOM category 120
BOM item 75
BOM structure 122
Bottom-up budgeting 524
BPM 168
Budget category 525
 planned 525
 preventive 525
 unplanned 525
Budget use 526
Budgeting 512, 518
Budgeting group 524
Building Control System → BCS
Business Add-in → BAdI
Business Application Programming
 Interface → BAPI
Business content for EAM 497
Business content for MCB 526
Business Explorer → BEx

- Business function ... 39, 49, 132, 136, 168, 207, 208, 210, 219, 246, 263, 285, 287, 299, 312, 322, 353, 360, 385, 396, 421, 529, 536
- Business partner → Partner
- Business process modeling 168
- BW-BPS 522
- ## C
- CAD 457, 460, 667
- Calibration 364
- Call horizon 320, 331, 338, 340
- Capacity 226
- Capacity leveling 224, 225
- Capacity overview 224
- Capacity requirement 223
- Capacity requirements planning . 60, 222
- Catalog 180
- Catalog group 181
- Catalog Profile 183
- Catalog profile 180, 182
- CATS 239, 443
- CBM 36, 360, 559
- Cellular telephone 547
- Characteristic 109, 124, 487, 498, 655
- Check resources 395
- Class 183, 655
- standard class* 128
- Class name 125
- Class system
- template* 127
- use* 126
- Class type 125
- Classification 123, 127, 183, 462, 656
- characteristic* 124
- equipment* 128
- notification* 184
- search functions* 128
- Classification system 124
- CO 38, 194, 427
- Code group 181
- Collective Time Confirmation 239
- Combined order/operation list 473
- Company code 54
- Completion
- business* 244
- Completion (Cont.)
- cancel* 243, 245
- order* 251
- technical* 242
- Completion confirmation
- technical* 241
- Completion counter reading 345
- Completion requirement 319
- Component maintenance 29
- Component overview 208
- Computer-aided design → CAD
- Condition-Based Maintenance → CBM
- Configuration Panel 551
- Confirmation
- individual time confirmation* 238
- Confirmation 230, 237, 245, 373, 414, 416, 443, 630, 658
- collective time confirmation* 239
- inspection rounds* 355, 359
- overall completion confirmation* 240, 251
- Confirmation cockpit 622
- Confirmation of reservation 382
- Conformity with user expectations ... 594
- Construction type 88, 120, 306
- Consumption billing 460
- Content of orders 194
- Control entry 598, 643
- Control key 59, 196, 199, 224, 265, 267, 368
- Controllability 594
- Controlling 221, 427, 664
- commercial* 469
- measure-based* 469
- MRP-based* 468
- object-based* 469
- operational* 467
- period-based* 470
- strategic* 468
- tactical* 468
- technical* 469
- Controlling area 54, 499
- Controlling information system 436
- Cost analysis 488
- Cost center 427, 428, 436
- Cost center budget 514

- Cost center report 515
- Cost element 214, 427, 436
- Costing 62, 211, 273, 290, 313, 429
- Counter 137, 139, 629, 655
- annual estimate* 140
- counter overflow reading* 140, 336
- counter reading* 140, 574
- entry of counter readings* 340, 342
- Counters 336, 361
- Cross-Application Time Sheet → CATS
- CS 38
- CS order 447
- Customer exit 363, 629
- Customer Interaction Center 446
- Customer Service 667
- Customizing (usability) 617
- Cycle modification factor 331
- Cycle set 346, 350
- ## D
- Damage report 488
- Data acquisition system
- mobile* 36
- Data archiving 79
- Data exchange 464
- Data linear 108
- Data transfer
- hierarchical* 133
- horizontal* 134
- Data Transfer Workbench 79
- Data Warehousing Workbench 496
- Database table 480
- DataStore object 496
- Date, scheduled 200
- DDIC table 492
- Deadline monitoring 303, 322, 573
- Decision
- operational* 472
- strategic* 472
- tactical* 472
- Default value 607
- Defining work package 394
- Diagnostic assembly 458
- Diagnostic system 172, 457
- DIN 31051 30
- DIN EN ISO 9241-110 592
- Display variant 478
- Displaying costs 214
- Document 186, 209, 254, 655
- Document flow 245
- Document master record 143
- DSO → DataStore object
- Duration of internal processing 60
- Dynamic date calculation 476
- Dynamic segmentation 124
- ## E
- EAM 37
- lists* 472
- order* 409, 447
- Early warning system 492
- Easy Web Transaction 172
- ECC 38
- eClass 127
- EN standard 13306 30
- Enhancement package 39
- Enhancement Package 2 41
- Enhancement Package 3 41
- Enhancement Package 4 41
- Enhancement Package 5 41
- Enhancement Package 6 41, 208, 419, 614
- Enhancement Package 7 41
- Enhancement Package 8 41, 542
- Enterprise Asset Management → EAM
- Enterprise Core Component → ECC
- Enterprise Extension 39
- Enterprise search 46
- Environment, Health and Safety Management 419, 664
- Equipment ... 66, 72, 75, 92, 101, 177, 182, 209, 365, 423, 462, 493, 498, 655, 668
- delete* 79
- group* 101
- hierarchy* 99
- install/dismantle* 94
- lock* 374
- mass change* 135
- placing in storage/removing from storage* 96, 98

- Equipment (Cont.)
restructure 96
serial data 97
stock overview 99
usage list 96
vs. Functional location 101
Equipment Master Record 423
Ergonomics 592
Error tolerance 594
Estimated costs 211, 215
Extension EA-PLM 39
External assignment 263
 control key 265
 external work center 271
 individual purchase order 266
 order type 267
 process flow 267
 reasons 264
External project systems 392
External service
 goods receipt 401
 individual purchase order 400
 invoice receipt 401
 service specification 275, 400
External work center 271
 prerequisites 272
 shop papers 273
Extractor 497
- F**
- Failure Mode and Effects Analysis → FMEA
Failure report 488
Favorite 608
Favorites menu 609
FI 38, 421
FI-AA 423
Field selection 79, 168, 403
Finish-finish relationship 201
Finish-start relationship 201
First Line Maintenance 29
Flavor 622
FMEA 36
Follow-up action 374
Follow-up buffer 332
Follow-up order 375
- Fuel consumption analysis 488
Functional location 66, 72, 74, 81, 101,
 177, 182, 462, 498, 655, 668
 alternative labeling 90, 92
 collective entry 89
 delete 79
 layout 85
 mass change 135
 number 77
 number assignment 76
 real estate object 437
 rename 91
 scrap yard 85
 single entry 83
 superior 84
 vs. Equipment 101
- G**
- General ledger accounts 422
General maintenance task list 307, 415
GEO data 503
Geographic information systems 667
Geographical information systems → GIS
GIS 172, 457, 460, 461
Goods issue 236, 289, 407
Goods Receipt 416
Goods receipt 269, 289, 297, 401, 407,
 414, 456
Graphical handheld device 547
GuiXT 620
- H**
- Handling Unit 406
Handling unit 406
HCM 38, 440
Human Capital Management 38, 440,
 666
- I**
- IAC 279, 280, 465
IM 515
IM program 515
Immediate Repairs 252

- Immediate repairs 170, 247
Improvement 32
Individual purchase order 266, 400
Individual time confirmation 238
InfoCube 497
InfoObject 497
Information Structure 487
In-house production of spare parts ... 411
Initial counter reading 337
In-memory technology 569
Input help 610
Inspection 31
Inspection lot 305, 371, 418, 659
Inspection operation 368
Inspection plan 366
Inspection point 367
Inspection rounds 353
 advanced 356
 using maintenance task list ... 353, 356
 using object list 353
Integration 397, 661
 non-SAP systems 457
 SAP systems 448
 within SAP ERP 398
Interface 463
Internal activity allocation 428
Internally processed activities 61
Internet Application Component → IAC
Internet catalog 532
Internet of Things 15, 578
Inventory 66, 92
Investment Management → IM
Invoice receipt 269, 274, 280, 401,
 422, 456
Invoice without purchase order 422
iPad 547, 557
iPhone 547
ISO 55000 et seqq. 33
- L**
- Labeling, alternative 655
Lead float and follow-up
 buffer 332, 347
Lead time scheduling 60, 198
Linear asset 67, 104
Linear Asset Management 67, 104
Linear characteristic 109
Linear data 108
Linear object
 create 108
Linear reference pattern 112
Linear technical system structure 110
Link to document 142
LIS 506
 arithmetic operation 491
 flexible report 491
 information structure 487
 limits 490
List of actions 473
List of components 473
List of confirmations 473
List of counter readings 473
List of equipment 472
List of functional locations 472
List of goods movements 473
List of maintenance items 473
List of maintenance plans 473
List of maintenance task lists 473
List of material serial numbers 473
List of materials 473
List of measurement documents 473
List of measuring points 473
List of notification items 473
List of notifications 473
List of object links and object
 network 473
List of order operations 473
List of orders 473
List of permits 473
List of reference functional
 locations 472
List of reference measuring points ... 473
List of shift notes 473
List of shift reports 473
- K**
- Key combination 611
Key figure 487, 498

- List of tasks 473
 - List of vehicles 473
 - List variant 610
 - Location 53
 - Location report 488
 - Long text, multilingual 655
- M**
-
- Machine data acquisition → MDA
 - Maintenance 31
 - business factors* 27
 - condition-based* 36, 301, 460, 559
 - definition* 31
 - economic factors* 27
 - performance-based* 35, 301
 - plant-specific* 55
 - preventive* 35, 170, 299, 336, 345
 - project-based* 385
 - reactive* 35
 - reliability-based* 36
 - technological factors* 28
 - time-based* 35, 301
 - Maintenance assembly 67, 112, 177, 655, 668
 - Maintenance call object 324
 - Maintenance Cost Budgeting → MCB
 - Maintenance Event Builder 386, 392, 660
 - process flow* 393
 - resource view* 395
 - revision* 394
 - Maintenance item 302, 325
 - Maintenance order, costs 422
 - Maintenance package 330, 331
 - Maintenance package hierarchy 331
 - Maintenance plan 303, 316, 358, 370, 418, 573, 629
 - cost display for maintenance plan* 325
 - maintenance plan category* .. 304, 358
 - maintenance plan scheduling* 573
 - multiple counter plan* 304, 346, 349
 - single cycle plan* 304, 336
 - strategy plan* 304, 328, 342
 - Maintenance planning and control system 79
 - Maintenance planning, performance-based 459
 - Maintenance plant 52
 - Maintenance strategy ... 34, 302, 328, 343, 574, 659
 - Maintenance task list type 306
 - Manufacturer guidelines 30
 - Manufacturer report 488
 - Mass change 135, 221, 314, 325
 - Mass maintenance of linear data 111
 - Master data 78, 449
 - functions* 80
 - layout* 79
 - recording* 80
 - Master data consolidation 449
 - Master data harmonization 449
 - Master data maintenance 449
 - Master data management 449, 450
 - Master inspection characteristic 366
 - Master record 93
 - delete* 80
 - stored information* 78
 - Master warranty 151
 - Material 67, 112, 166, 209, 217, 402, 498
 - material reservation* 203
 - material type* 115
 - material where-used list* 206
 - material withdrawal* 235
 - non-stock material* 204
 - stock material* 203
 - user departments, views and data* 116
 - Material availability check 227
 - Material BOM 413, 415
 - Material master 113, 117, 284, 402
 - Material number 114
 - Material planning 206
 - Material provision 295
 - Material requirements
 - planning* 287, 403
 - Material type 114
 - Material Type for Spare Parts 402
 - Material where-used list 123

- Material withdrawal 245, 401, 414, 416
 - Material withdrawal, unplanned 236
 - Materials Management 38, 661
 - Materials management 399
 - MCB 522
 - MDA 363, 458
 - MDM 448–450
 - Meantime between failures → MTBF
 - Meantime between Repair 48
 - Meantime to Repair 48
 - Measure 656
 - Measurement document transfer 141
 - Measurement reading 138, 253
 - Measuring point 137, 357, 361, 629, 655
 - MEB Workbench 394
 - MES 457
 - MM 38, 399
 - Mobile maintenance 36, 542, 545, 547
 - devices* 547
 - offline scenario* 545
 - online scenario* 545
 - Mobile push alert 555
 - Monitoring of notifications 446
 - MRP 287
 - MRP type 404
 - MTBF 470, 497
 - MTBR 501
 - MTTR 501
 - Multiple counter plan 304, 659
 - basic* 346
 - enhanced* 349
- N**
-
- Network 387, 660
 - Network information system → NIS
 - Network monitoring system 457, 458
 - Network scheduling 198
 - NIS 461
 - Notebook 547
 - Notification 163, 164, 172, 245, 249, 305, 392, 442, 498, 629, 656
 - action* 180
 - activity* 164
 - catalog* 180
 - Notification (Cont.)
 - catalog profile* 180
 - classification* 184
 - item* 164, 179
 - notification type* 173, 182, 379
 - paper* 187
 - print* 187
 - screen layout* 174
 - task* 164, 177, 180
 - technical completion*
 - confirmation* 241
 - user status* 188
 - Notification creation 621
 - Notification item 179
 - Notification paper 187
 - Number assignment
 - external* 76, 78, 655
 - internal* 76, 78, 655
- O**
-
- Object
 - assign class* 127
 - classify* 125
 - linear* 108
 - Object class report 488
 - Object information 178, 189, 193, 655
 - Object link 67, 103, 143
 - Object list 165, 210
 - Object network 103, 104
 - Object service 146, 219
 - Object statistics 488
 - Occupational health and safety 419
 - OCI interface 662
 - Offset 333
 - OLAP 485, 486
 - OLTP 485
 - Online Analytical Processing → OLAP
 - Online Transaction Processing → OLTP
 - Operating condition indicator 410
 - Operating hours counter 140
 - Operation overview 208
 - Operation selection 311
 - Operation type 347
 - Operations information
 - system* 457, 460

- Operations monitoring system 457
- Order 163, 249, 305, 341, 371, 393, 442, 499, 629, 657
- address* 190
 - after-event recording* 252
 - assign network* 388
 - assign WBS element* 387
 - availability check* 226
 - availability list* 230
 - bar chart* 202
 - business completion* 244
 - capacity requirements planning* 222
 - CATS* 239
 - completion* 237, 251
 - confirmation* 237, 444
 - content of orders* 194
 - costing* 211
 - costs* 166
 - create* 190, 394
 - document* 209
 - estimated costs* 211
 - inspection rounds* 355, 359
 - mass change* 221, 325
 - material availability check* 227
 - material list* 166
 - material planning* 203
 - material withdrawal* 235
 - network graphic* 202
 - object information* 189
 - object list* 165, 210
 - operation* 165
 - order budget* 512
 - order hierarchy* 217
 - order operation* 195
 - order settlement* 193
 - order type* 193, 233, 267, 282, 316, 371
 - overall completion*
 - confirmation* 240, 251
 - partners* 189
 - permit* 216
 - production resource/tool* 166, 208
 - reference object* 189
 - refurbishment* 287
 - release* 230
 - responsibility* 196
- Order (Cont.)
- settlement* 414, 431
 - settlement rule* 166
 - suborder* 217
 - system status* 189
 - technical completion* 242
 - user status* 189
- Order budgeting 512
- Order document 232
- Order hierarchy 217, 218
- Order layout 249
- Order operation 195
- Order release 230
- Order service specification 278
- Order settlement 432
- Organizational structure 51
- Overall completion
- confirmation* 240, 251
- Overhead rate 431
- P**
- Packaging material 406
- Paging 548, 656
- Partner 153, 177, 184, 189, 499, 655, 656
- external* 153
 - internal* 153
 - transfer* 185
- Partner determination procedure 153, 441, 442
- Partner role 57, 153, 185, 442
- Partner type 153
- Parts catalog, electronic 532
- Party 197, 440, 442, 443
- PCS 36, 362
- PDA 547
- PDC 363, 458, 663
- PDE 458
- PDM 38
- Period accruals 434
- Permit 154, 216, 655, 657
- Persistent Staging Area → PSA
- Person
- as work center* 57
 - group* 57

- Person (Cont.)
- responsible for executing* 443
- Personal value list 611
- Personnel data entry → PDE
- Personnel number 441–444
- confirmation list* 443, 444
- Plan-driven procurement 454
- Planned repairs 170
- Planner group 53, 152, 196, 316, 499, 668
- Planning 189
- Planning board* 381, 409
 - Planning group report* 488
 - Planning plant* 52
- Plant 52, 498
- maintenance plant* 52
 - planning plant* 52
 - spare parts storage* 55
- Plant data collection → PDC
- Plant maintenance
- Business Functions* 41
 - costs* 301
 - cross-plant* 55
 - SAP releases* 37
- Plant maintenance controlling
- Controlling
- Plant maintenance information system
- PM-IS
- Plant sec. (plant section) 668
- Plant section 53
- PM/PS reference element 389
- PM-IS 485, 488, 490, 493, 668
- PM-PCS interface 363, 459, 659, 663, 666
- Pool Asset Management 377
- Pool asset management
- confirmation* 382
 - issue* 383
 - planning board* 381
 - process flow* 378
 - reservation* 381
 - settlement* 384
- Pool category 384
- Position management 99
- Position number 87
- PP 38, 408
- PP order 411
- PP planning board 409, 410
- Preventive maintenance 29, 170, 248, 299, 659
- Price
- fixed* 213
 - variable* 213
- Print 187, 657
- output media* 187, 233
- printing
- shop paper* 231
- Priority 193, 656
- Process control system 36, 172, 362, 457
- Process Control System → PCS
- Processing time 597, 642
- Product structure browser 130
- Production order 411–414, 418
- Production Planning 663
- Production Planning and Control → PP
- Production resources/tools 166, 208, 217, 308
- Programming 631
- Project definition 386
- Project System 667
- Project System → PS
- Project-based maintenance 385
- PS 38, 386, 518
- PSA 495
- Purchase order 245, 266, 269, 278, 292, 295, 402, 455
- Purchase requisition 205, 243, 245, 266, 269, 278, 292, 294, 399, 402, 455
- Purchasing 38, 399, 661
- Purchasing document 402
- Q**
- QM 38, 418
- Quality Management 38, 664
- Quality management 418
- Query 498
- Quick View 540
- QuickViewer 480
- keyword search* 481

QuickViewer (Cont.)
limit 484
table determination 480

R

Radio frequency identification → RFID
Rate 428
Rate of capacity utilization 61
RBM 36
RE 38
Real Estate Management 38, 437, 666
Real estate object 437
Reference functional location 66,
81, 89
Reference object 177, 189
Refurbishment 280, 292, 401, 660
costs 291
flow 281
material 289
notification 282
order 287, 415, 418
order type 283
settlement 291
RE-FX 666
Relationships 201
Release, automatic 231
Reliability-Based Maintenance → RBM
Remote function call → RFC
Reorder point planning 403
Repair 32
Repairable spare 283
Repetition factor 351
Requirements of internal
processing 61
Reservation 203, 230, 235, 244,
381, 399
Restart 334
Restart costs 30
Results recording 372, 418
Returns processing 446
RFC 458
RFID 566
RM-INST 37
Role 47, 498, 608
Role menu 608
Routing 413

S

Safety measure list 420
Safety plan 420
Sales 38, 445
Sales and Distribution 667
Sales order 446
Sample master record 276–278
SAP 661
SAP 3D Visual Enterprise Viewer 48,
534, 536
SAP Asset Intelligence Network 581
SAP Business Client 131, 253, 557
SAP Business Suite 39
SAP Business Warehouse 494
SAP BusinessObjects Lumira 506
SAP BW 494, 506, 522
SAP CRM 39
SAP Customer Relationship
Management → SAP CRM
SAP EarlyWatch 492
SAP Easy Document Management 144
SAP EHS Management 419
SAP ERP Corporate Services 38
SAP ERP Financials 38
SAP ERP Procurement and Logistics 38
SAP ERP Product Development and
Manufacturing 38
SAP ERP Sales and Service 38
SAP Fiori 537
SAP HANA 531, 569
for EAM 573
integrated scenario 573
side-by-side scenario 573
SAP industry solutions 39
SAP Inventory Manager 555
SAP List Viewer 472
further processing 478
list display 477
monitor 477
selection option 475
selection variant 474
SAP Master Data Governance 450

SAP NetWeaver 42
SAP NetWeaver MDM 464
SAP PLM 39
SAP Predictive Maintenance
and Service 578
alert list 580
machine list 580
machine monitor 580
vibration analysis 580
SAP Product Lifecycle Management
→ SAP PLM
SAP Rounds Manager 550, 559
SAP S/4HANA 575
SAP SCM 39
SAP Screen Personas 621
SAP SRM 39, 448, 454
SAP Supplier Relationship
Management → SAP SRM
SAP Supply Chain Management
→ SAP SCM
SAP Work Manager 545, 550
3D model 557
GIS Integration 555
iPad 553
iPhone 552, 556
local layout 552
timesheet 556
SCADA 36, 362, 459
Scheduling 60, 193, 198, 217, 339, 350
basic date 200, 207
indicator 317, 331, 343
lead time scheduling 198
list 321
log 324
measurement document 340
network scheduling 198
parameters 317, 329, 331, 338, 347
scheduling type 200
Scheduling overview 327
Scheduling period 319, 331
Scrap yard 85
Screen control 86
Screen layout 193
Screen template 168
SD 38
Segmentation, dynamic 109
Selection variant 474
Self-descriptiveness 593
Serial number 52, 67, 92, 280, 283, 297,
406, 660
Serial number history 407
Serial number profile 97, 297
Service 38, 445, 667
Service acceptance 279, 401
Service entry 279, 463, 465
Service entry sheet 305
Service level agreement 446
Service object 446
Service processing 446
Service specification 266, 400, 463
Service specifications 659
Settlement 384
fixed price 435
full settlement 434
periodic 434
result 435
Settlement by amount 434
Settlement cost element 432
Settlement profile 432
Settlement rule 166, 427, 433, 434, 447
Settlement type 433
Shift factor 318, 331
Shift note 256
Shift report 256, 260
Shop paper
printing 187, 231
Short text, multilingual 655
Side panel 48
Single cycle plan 304, 354, 659
performance-based 336
time-based 315
SMART Administration Tool 551
Smartphone 547
Solution database 446
Source of data 135
Spare part 411, 535
Spare part class code 286
Spare part production
production order 413
refurbishment order 415
Spare parts management 402
Standard class 128

Standard report	488, 668	Technical system structure (Cont.)	
Start in cycle	334, 344	<i>linear</i>	110
Start-start relationship	201	<i>rough</i>	69
Statistics	503	Test/measurement equipment	418, 625, 660
Status	214, 220, 227, 230, 231, 242, 244, 371, 374, 394, 407, 433	Time confirmation → Confirmation	
<i>automatic assignment</i>	159	Time leveling	444
<i>several</i>	158	Time recording	239
<i>status profile</i>	157, 173, 193	Timesheet	556
<i>system status</i>	156, 189	TM	38
<i>user status</i>	156, 188, 189, 656	Tolerance	318, 331
Stock overview	99, 296	Top-down budgeting	524
Strategy plan	304, 328, 342, 343, 659	Training	600
Structure indicator	76	Transaction	
Structure level	71	<i>ACO3</i>	276
Structuring of technical systems	65	<i>ADPMPS</i>	388, 390–392
<i>criteria</i>	71	<i>ADSUBCON</i>	294, 296
<i>depth</i>	68	<i>analysis</i>	159
Structuring resources	66, 68	<i>ASO1</i>	425
Structuring technical systems		<i>ASO3</i>	424
<i>resources</i>	81	<i>BAP1</i>	627
Subcontracting	291, 402	<i>BGM1</i>	151
Subcontracting monitor	294	<i>BGM3</i>	151
Suborder	217	<i>CAO1</i>	413
Suitability for individualization	595	<i>CA77</i>	314
Suitability for learning	595	<i>CA87</i>	314
Suitability for the task	593	<i>CAT2</i>	239, 443
Supplier relationship	454	<i>CAT9</i>	240
Supplier Relationship		<i>CCO4</i>	130
Management	662	<i>CJO1</i>	519
Switch Framework	40, 532	<i>CJO6</i>	386
System availability	29, 176, 241	<i>CJ11</i>	386, 519
System monitor	551	<i>CJ30</i>	519
Systems for entry of services		<i>CLO2</i>	125
performed	457	<i>CL20</i>	128
		<i>CL20N</i>	127
		<i>CL30N</i>	128
		<i>CL6B</i>	129
		<i>CMO1</i>	224
		<i>CM21</i>	88, 410
		<i>CN21</i>	387
		<i>COO1</i>	411, 413
		<i>CO11</i>	417
		<i>CO15</i>	414
		<i>CO1F</i>	414
		<i>CSO1</i>	120, 413, 415

Transaction (Cont.)		Transaction (Cont.)	
<i>CS15</i>	123	<i>ILO4</i>	89
<i>CTO4</i>	124, 336	<i>ILO5</i>	91, 111, 129, 135, 472
<i>CVOIN</i>	143	<i>ILO6</i>	472
<i>CVO4N</i>	143	<i>ILO7</i>	96, 110
<i>F-43</i>	422	<i>IL15</i>	472
<i>FB60</i>	422	<i>IM01</i>	516
<i>IA01</i>	306, 366	<i>IM11</i>	516
<i>IA05</i>	306, 366	<i>IM32</i>	516
<i>IA06</i>	415	<i>INO4</i>	103
<i>IA08</i>	473	<i>INO7</i>	103
<i>IA09</i>	473	<i>IN15</i>	473
<i>IA11</i>	306	<i>IN16</i>	473
<i>IA16</i>	313	<i>IN18</i>	473
<i>IA21</i>	312	<i>IN18/19</i>	104
<i>IBO1</i>	120	<i>IN19</i>	473
<i>IB11</i>	120	<i>IP10</i>	316, 334, 344, 348, 352
<i>IBIP</i>	79	<i>IP11</i>	328, 343
<i>IBIPA</i>	324	<i>IP11Z</i>	346, 350
<i>IEO1</i>	108	<i>IP15</i>	325, 473
<i>IEO2</i>	95, 96, 127, 336	<i>IP16</i>	473
<i>IEO5</i>	111, 129, 135, 472	<i>IP17</i>	325, 473
<i>IE20</i>	129	<i>IP18</i>	473
<i>IE36</i>	473	<i>IP19</i>	327
<i>IE37</i>	473	<i>IP24</i>	473
<i>IE4N</i>	98	<i>IP30</i>	322, 573
<i>IHO1</i>	83, 91, 110, 130	<i>IP30H</i>	573
<i>IHO3</i>	130	<i>IP31</i>	325
<i>IHO4</i>	122	<i>IP41</i>	315, 338
<i>IHO6</i>	129	<i>IP42</i>	330, 343
<i>IHO7</i>	472	<i>IP43</i>	346, 351
<i>IHO8</i>	129, 472	<i>IPM2</i>	473
<i>IHO9</i>	473	<i>IPM3</i>	473
<i>IKO7</i>	473	<i>IQO8</i>	129, 473
<i>IKO7R</i>	473	<i>IRO1</i>	58, 440
<i>IKO8</i>	473	<i>IRO2</i>	440
<i>IKO8R</i>	473	<i>ISHN1</i>	257
<i>IK11</i>	337	<i>ISHN4</i>	259, 473
<i>IK17</i>	473	<i>ISHR1</i>	260
<i>IK18</i>	473	<i>ISHR4</i>	261, 473
<i>IK81</i>	112	<i>IW21</i>	172, 379
<i>IK82</i>	112	<i>IW22</i>	242
<i>IK83</i>	112	<i>IW24</i>	172
<i>ILO1</i>	83, 84, 108	<i>IW26</i>	172
<i>ILO2</i>	95, 336	<i>IW28</i>	191, 473
<i>ILO3</i>	439	<i>IW29</i>	473



Karl Liebstückel

Plant Maintenance with SAP: Business User Guide

689 Pages, 2017, \$79.95

ISBN 978-1-4932-1484-6

 www.sap-press.com/4310



Dr. Karl Liebstückel is a professor of information management and business software at the Würzburg-Schweinfurt University of Applied Sciences, Germany. He was the chairman of the German SAP User Group (DSAG) for five years and led its Plant Maintenance and Service Management work group for eight years.

We hope you have enjoyed this reading sample. You may recommend or pass it on to others, but only in its entirety, including all pages. This reading sample and all its parts are protected by copyright law. All usage and exploitation rights are reserved by the author and the publisher.