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Discover SAP® ERP HCM




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Contents at a Glance

PART I Workforce Process Management

1	Introduction	29
2	SAP ERP HCM Employee Administration	35
3	SAP ERP HCM Organizational Management	65
4	Global Employee Management	93
5	Concurrent Employment	111
6	Benefits Management	125
7	Time and Attendance	151
8	Payroll and Legal Reporting	191
9	HCM Processes and Forms	223

PART II Talent Management

10	Recruitment	243
11	Career and Succession Management	269
12	Enterprise Learning Management	285
13	Employee Performance Management	315
14	Enterprise Compensation Management	335

PART III End-User Service Delivery

15	Employee Self-Service	371
16	Manager Self-Service	391
17	Employee Interaction Center	409

Contents

Acknowledgments	17
Preface	19
Whom This Book Is For	20
What You Will Discover	20
Navigational Tools for This Book	21
What's In This Book?	21

PART I Workforce Process Management

1 Introduction	29
What Does SAP ERP HCM Offer You?	31
2 SAP ERP HCM Employee Administration	35
How SAP Employee Administration Fits into an Enterprise ..	36
What Information Can You Store in Employee Administration?	37
How Is Your Company Defined in Employee Administration?	38
How Is Employee Data Stored?	41
What Can You Do with the Data?	55
Integration	60
Case Study	61
The Challenges	61
The SAP Solution	62
The Benefits	62
Summary	63
3 SAP ERP HCM Organizational Management	65
How Organizational Management Fits into an Enterprise ...	66
A Closer Look at Organizational Management	66
What Is It?	67

What Can You Do with It?	79
How Do You Maintain It?	81
SAP Talent Visualization by Nakisa	84
Integration	85
Reporting	86
Workflow	87
Authorizations and Security	88
Case Study	89
The Challenges	90
The SAP Solution	90
The Benefits	91
Summary	91

4 Global Employee Management 93

How Global Employee Management Fits into an Enterprise ...	94
A Closer Look at Global Employee Management	94
Infotypes	95
Actions	103
Processing Policy Changes	106
Payroll for Global Employees	107
Integration	107
Case Study	108
The Challenges	108
The SAP Solution	109
The Benefits	109
Summary	109

5 Concurrent Employment 111

How Concurrent Employment Fits into an Enterprise	112
A Closer Look at Concurrent Employment	113
The Central Person	113
Grouping Personnel Assignments	116
Processing Benefits for Concurrent Employment	117
Processing in Time Management	118

Processing in Payroll	120
Summary	123

6 Benefits Management 125

How Benefits Management Fits into an Enterprise	125
A Closer Look at Benefits	126
Benefits Plans	126
Employee Data	132
Benefits Administration	137
Reporting	143
Integration	143
Employee Self-Service	144
Country-Specific Functionality	145
Summary	149

7 Time and Attendance 151

How Time and Attendance Fits into an Enterprise	152
A Closer Look at Time and Attendance	153
Time Recording	154
Cross Application Time Sheets (CATS)	165
Time Manager's Workplace (TMWP)	168
Incentive Wages	171
Shift Planning	174
Time Evaluation	177
Employee Data	182
Reporting	184
Integration	185
Case Study	187
The Challenges	188
The SAP Solution	188
The Benefits	189
Conclusion	189

8 Payroll and Legal Reporting 191

How the SAP ERP HCM Payroll Solution Fits into an Enterprise	192
A Closer Look at the SAP ERP HCM Payroll Function	192
SAP Country Solutions	193
Payroll Inputs	193
The Payroll Engine	198
Payroll Outputs	201
Integration	203
Payroll Process	206
Reporting	208
Other Key Concepts	211
How Legal Reporting Fits into an Enterprise	214
A Closer Look at Legal Reporting	215
Employee Master Data	215
Employee Payroll Results	216
Employer Data	217
Legal Reporting Requirements	218
Producing Legal Reports	218
Case Study	220
The Challenges	220
The SAP Solution	221
The Benefits	221
Summary	221

9 HCM Processes and Forms 223

How Processes and Forms Fit into an Enterprise	224
A Closer Look at HCM Processes and Forms	225
Forms	226
Processes	227
HR Administrators	232
Employee Digital Personnel File	234
Case Study	235
The Challenges	235
The SAP Solution	236
The Benefits	236
Summary	236

PART II Talent Management

10 Recruitment	243
How Recruitment Fits into an Enterprise	244
A Closer Look at Recruitment	245
E-Recruiting	245
Traditional Recruitment	260
Infotypes	263
Case Study	265
The Challenges	266
The SAP Solution	266
The Benefits	266
Summary	266
11 Career and Succession Management	269
How SAP ERP HCM Career and Succession Management Fits into an Enterprise	270
A Closer Look at Career and Succession Management	270
Career Management	272
Succession Management	277
Summary	283
12 Enterprise Learning Management	285
How SAP ERP HCM Enterprise Learning Management Fits into an Enterprise	286
A Closer Look at Enterprise Learning Management	286
Authoring and Publishing Content	288
Content Management System	295
Training Management	296
Learning Portal	303
Content Player	305
Virtual Learning Rooms	305
Collaboration Rooms	306
Instructor Portal	307
Integration with other Components	308

Key Infotypes	309
Case Study	311
The Challenges	311
The SAP Solution	312
The Benefits	312
Summary	312

13 Employee Performance Management 315

How Performance Management Fits in an Enterprise	316
A Closer Look at Performance Management	316
Development Plans	317
Objective Setting	324
Appraisals	327
Processing Appraisals	329
Performance Management via the Portal	331
Case Study	331
The Challenges	332
The SAP Solution	332
The Benefits	332
Summary	333

14 Enterprise Compensation Management 335

How Compensation Management Fits into an Enterprise	336
A Closer Look at Enterprise Compensation Management	337
Personnel Cost Planning (PCP)	338
Budgeting	342
Long-Term Incentives	344
Job Pricing	348
Defining Your Compensation Program	352
Defining Your Compensation Packages	352
Processing Your Compensation Program	356
ESS and MSS	359
Compensation Management Infotypes	361
Compensation Management Reporting	364

Case Study	365
The Challenges	366
The SAP Solution	366
The Benefits.....	366
Summary	367

PART III End-User Service Delivery

15 Employee Self-Service 371

How Employee Self-Service Fits into an Enterprise	372
A Closer Look at ESS	372
How ESS Works	372
What Employees Can Do via ESS	375
Integration	387
Case Study	388
The Challenges	389
The SAP Solution	389
The Benefits	389
Summary	390

16 Manager Self-Service 391

How MSS Fits into an Enterprise	392
A Closer Look at MSS	392
How MSS Works	393
What Managers Can Do via MSS	395
Integration	404
Case Study	405
The Challenges	405
The SAP Solution	405
The Benefits	406
Summary	406

17 Employee Interaction Center 409

How the EIC Fits into an Enterprise	410
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A Closer Look at the EIC	411
The Employee's View	412
The Manager's View	412
The Agent's View	413
Reporting	416
Case Study	417
The Challenges	418
The SAP Solution	418
The Benefits.....	418
Summary	418
Glossary.....	421
Index.....	433

SAP ERP HCM Employee Administration

In today's rapidly globalizing marketplace, companies around the world grow, expand, acquire, and merge at a rapid pace. As a result, companies are faced with maintaining unprecedented volumes of employee data. The challenges and complications of storing and accessing sensitive employee data globally, while also making it accessible and tailoring it to local and regional demands, presents major issues for companies.

The SAP ERP HCM Employee Administration functionality is designed to face these demands and has three key purposes. First, it acts as a centralized database for all of your employee master data, enabling system users, management, and employees to access up-to-date, consistent and relevant information to support decision making. Second, it's the part of SAP ERP HCM where you define your company structure, and create a framework that meets your processing and reporting requirements while working well for your employees. Third, it's designed to enable your company to automate and streamline most of your day-to-day HR processes, saving you time and money and allowing your HR department to focus on strategic rather than administrative activities.

Because Employee Administration is the core function of SAP ERP HCM, it's the bedrock that all of your other SAP ERP HCM components are built upon. It is critical that you understand the Employee Administration functions and keep in mind their possible impact on other SAP ERP HCM components when designing and implementing the system.

This chapter will give you an understanding of how Employee Administration is used, how it's structured, and how it integrates with other SAP ERP HCM components, along with some of the key concepts behind Employee Administration in general.

How SAP Employee Administration Fits into an Enterprise

Because it is the central database for storing employee data, the Employee Administration function is the key component in SAP ERP HCM. When companies use SAP ERP HCM, this function is the most frequently accessed part of the solution.

All other employee-related HCM processes, such as recruiting, performance management, and payroll, reference and make decisions based on the data stored in this function, so employee administration sits at the heart of your company.

The Employee Administration function is built around the Personnel Administration (PA) component, which is where all of your employees' data is stored. A large amount of the information input into other SAP ERP HCM components ends up stored in PA and can be accessed from Employee Administration. This means that in addition to your core employee data, you can view data from many of the other SAP ERP HCM components from inside the Personnel Administration component.

To understand SAP ERP HCM Employee Administration, we need to answer the following questions:

1. What information can you store in Employee Administration?
2. How does SAP ERP HCM refer to this information?

3. How is employee data stored?
4. What can you do with it?

What Information Can You Store in Employee Administration?

As befitting an SAP ERP HCM system that is used by over 10,000 companies around the world, you can store almost any data in Employee Administration. The data is stored in various forms, beginning with employee data, which is stored in records called *infotypes*.

SAP ERP HCM is used by over 10,000 clients worldwide

Ex Example

Each employee record has multiple infotypes: one that contains details of his current organizational assignment, one that details his basic pay, one for bank details, and one for his address.

Employee Administration's main purpose is to store infotypes that record the history of a person's employment with your company. Every employee has many infotypes stored for his employee number, so in Employee Administration, among other things, you can quickly view all of the positions that an employee has held in your company and all of the changes to salary over his employment history. Having your employee data stored in infotypes gives you a logical, controlled, and secure structure that ensures your administrators can access and maintain the data in a way that makes Employee Administration efficient and streamlined.

Infotypes are the key concept behind Employee Administration

SAP ERP HCM delivers over 650 standard infotypes catering to all of your employee data storage requirements, ranging from recording your employees' civil awards and decorations (Infotype 0861) to the finer details of their garnishment orders (Infotype 0195).

SAP ERP HCM delivers over 650 standard infotypes

We'll talk more about infotypes and the other objects used to store employee and organizational data in the following sections, but you'll also need to configure your company structure in Employee Administration so that you can map out where your employees physically and legally work. So first, let's look at the structures that SAP ERP HCM uses to define the legal and physical structure of your company.

How Is Your Company Defined in Employee Administration?

Before you can organize your employee data in SAP ERP HCM, you need to set up your company structure, which is largely determined by your legal and reporting requirements. Employee Administration uses three separate but related structures to map your company into Employee Administration:

Enterprise Structure

The enterprise structure represents your company's legal set up

The *enterprise structure* is the method used for defining how your organization is set up in SAP ERP HCM. Aligning your company correctly to this structure is one of the most important steps of an SAP implementation, because the enterprise structure defined here can have important ramifications on later decisions, not just in Employee Administration but in many other SAP ERP HCM components as well.

The SAP objects that combine to make up the enterprise structure are shown in Table 2.1.

Object	Description	Example
<i>Client</i>	SAP system clients have an independent status both in legal and organizational terms. The clients in a SAP system can be distinguished by a three-character alphanumeric code. Generally, you will have a client for production, one for testing, and one for development.	001 – Connells International Curtain Company Production System
<i>Company code</i>	These are set up as part of the Finance component, but they are subsequently used in SAP ERP HCM. Legal entities, currencies, and countries are set at a company code level.	CO01 – England Curtain Company CO02 – USA Curtain Company
<i>Personnel area</i>	These are sub-units of a company that are specific to Personnel Administration; they usually define such things as geographical locations and function areas. A personnel area can only belong to one company code.	P001 – England Operations P002 – Scotland Operations P0003 – West Coast Operations P004 – East Coast Operations

Table 2.1 SAP Enterprise Structure

Object	Description	Example
<i>Personnel subarea</i>	A further subset of personnel area, these are used to define grouping and defaults for payroll processing and time management decision making.	S001 – Factory Operations S002 – Head Office S003 – Deliveries

Table 2.1 SAP Enterprise Structure (Cont.)

Personnel Structure

As opposed to the enterprise structure, which defines the organization from a legal and physical point of view, the *personnel structure* defines the organization from the employees' point of view. Because the personnel structure is used to separate and group all of your different types of employees, it's frequently used as a decision point in payroll processing, time management, and shift planning, so it's vital that these groupings cater to all of the separate categories of employees within your company.

The personnel structure represents how your employees are grouped

The personnel structure in SAP ERP HCM is defined by the objects in Table 2.2.

Object	Description	Example
<i>Employee group</i>	Used to classify different types of employees at a high level, defining the different types of workforces and terms and conditions of employment	01 – Directors 02 – Management 03 – Salaried Staff 04 – Wage Staff 05 – Temporary Workers 06 – Pensioners
<i>Employee subgroup</i>	A subset of an employee group, the lowest level of granularity when it comes to defining your employees	04-01 – Apprentices 04-02 – Craftsmen 04-03 – Laborers
<i>Payroll area</i>	A grouping of employees with the same payroll rules, for example, pay period, pay date, calculation method	P1 – Monthly Payroll P2 – Weekly Payroll P3 – Bi Weekly Payroll

Table 2.2 SAP Personnel Structure

The organizational structure defines your company's hierarchy

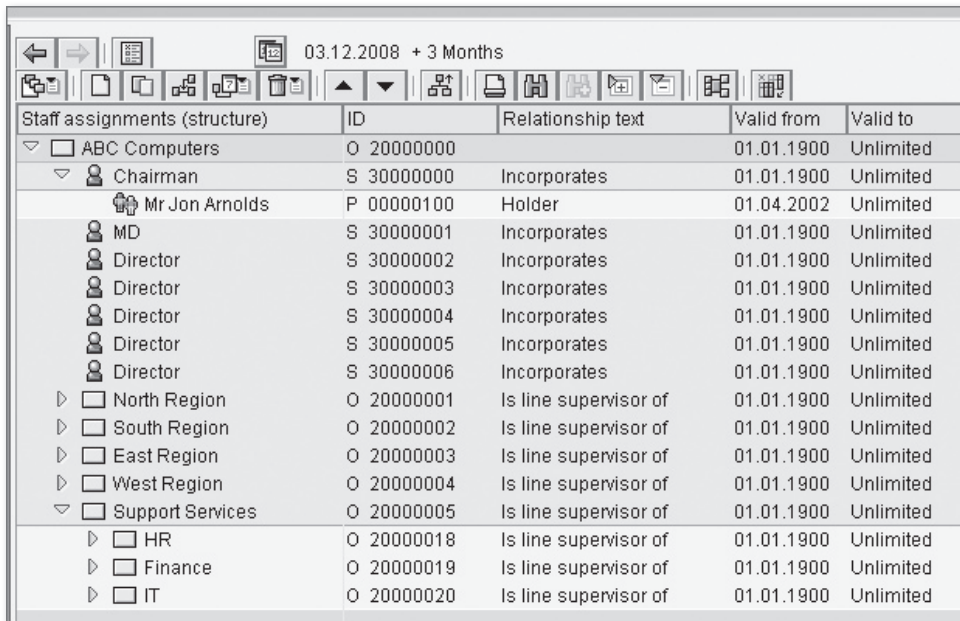
Organizational Structure

The third of the key structures used in Employee Administration is the *organizational structure*. This will be covered in more detail in Chapter 10, but in brief, the organizational structure represents the functional structure of employees in the organization. It defines the organizational hierarchy, the reporting and authority lines, and organizational groupings. The organizational structure is defined by the personnel development (PD) objects as shown in Table 2.3.

Object	Description	Example
<i>Organizational unit</i>	A logical, functional grouping of the organization. When arranged in a hierarchical order within an organization, they form an organizational structure.	Finance Department, Payroll Office, Mechanics Workshop, Special Response Team
<i>Position</i>	A position in an organization is an individual assignment held by a specific employee	Head Mechanic Diesel Mechanic Petrol Mechanic Small Engine Mechanic Apprentice Mechanic
<i>Job</i>	A general set of work duties, tasks and responsibilities; the same job may define many positions in an organization	Manager Mechanic Apprentice Mechanic
<i>Organizational key</i>	A customer-specific subset of the organization used for control of authorizations	CO01S001 England Head Office CO02S001 USA Head Office

Table 2.3 SAP Organizational Structure

Figure 2.1 shows an example organizational structure with organizational units, positions, and one employee.



The screenshot shows the SAP 'Staff assignments (structure)' table. The table has columns: Staff assignments (structure), ID, Relationship text, Valid from, and Valid to. The data is organized hierarchically under 'ABC Computers'. The hierarchy starts with 'Chairman' (ID: S 30000000), who is the 'Holder' (ID: P 00000100) of the organization. Below the Chairman are several 'MD' (ID: S 30000001) and 'Director' (IDs: S 30000002 to S 30000006) roles, all with a relationship of 'Incorporates'. Below these are four regional entities: 'North Region' (ID: O 20000001), 'South Region' (ID: O 20000002), 'East Region' (ID: O 20000003), and 'West Region' (ID: O 20000004), all with a relationship of 'Is line supervisor of'. Finally, there are 'Support Services' (ID: O 20000005) and three functional areas: 'HR' (ID: O 20000018), 'Finance' (ID: O 20000019), and 'IT' (ID: O 20000020), all with a relationship of 'Is line supervisor of'. All entries have a 'Valid from' date of 01.01.1900 and a 'Valid to' date of Unlimited.

Staff assignments (structure)	ID	Relationship text	Valid from	Valid to
ABC Computers	O 20000000		01.01.1900	Unlimited
Chairman	S 30000000	Incorporates	01.01.1900	Unlimited
Mr Jon Arnolds	P 00000100	Holder	01.04.2002	Unlimited
MD	S 30000001	Incorporates	01.01.1900	Unlimited
Director	S 30000002	Incorporates	01.01.1900	Unlimited
Director	S 30000003	Incorporates	01.01.1900	Unlimited
Director	S 30000004	Incorporates	01.01.1900	Unlimited
Director	S 30000005	Incorporates	01.01.1900	Unlimited
Director	S 30000006	Incorporates	01.01.1900	Unlimited
North Region	O 20000001	Is line supervisor of	01.01.1900	Unlimited
South Region	O 20000002	Is line supervisor of	01.01.1900	Unlimited
East Region	O 20000003	Is line supervisor of	01.01.1900	Unlimited
West Region	O 20000004	Is line supervisor of	01.01.1900	Unlimited
Support Services	O 20000005	Is line supervisor of	01.01.1900	Unlimited
HR	O 20000018	Is line supervisor of	01.01.1900	Unlimited
Finance	O 20000019	Is line supervisor of	01.01.1900	Unlimited
IT	O 20000020	Is line supervisor of	01.01.1900	Unlimited

Figure 2.1 Organizational Structure

How Is Employee Data Stored?

Now that you have a general understanding of the SAP ERP HCM structure behind your company and how it is stored in Employee Administration, let's look at the different types of information we can store in Employee Administration and the structures that SAP ERP HCM uses to control this information. The main elements relating to storing employee data we need to understand are:

- › Infotypes
- › Wage types
- › Pay structures
- › Work schedules

These are ERP-specific terms for the different structures used to store employee data.

Infotypes are the key concept to understand in Employee Administration

Infotypes

Recording, accessing, reporting, and maintaining your employee data is the primary aim of the SAP ERP HCM system. To do this, a structure called an *infotype* is used to store pieces of employee data together in logical groups. These infotypes provide a storage structure, facilitate data entry and maintenance, and let you store data for specific timeframes, or validity periods. As mentioned earlier, infotypes are the key concept in Employee Administration. Some of the most commonly used infotypes include:

- › 0000 – Actions
- › 0001 – Organization Assignment
- › 0002 – Personal Details
- › 0007 – Work Schedule
- › 0008 – Basic Pay
- › 0014 – Recurring Payments and Deductions
- › 0015 – Additional Payments and Deductions

Infotype records are valid for a specific period of time, so, for example, as an employees' salary is changed during his employment, the employee will build up a chain of date-based infotype records showing a history of his salary changes.

Each infotype is defined by a four-digit key, and where subsets of the infotype data are required, the infotypes have *subtypes*. These subtypes are also defined by a four-digit key.

Infotypes fall into the following categories:

- › Personnel Administration infotypes
- › Personnel Development infotypes

Let's explore these in a little more depth.

Personnel Administration Infotypes

Personnel Administration infotypes can be maintained via the Maintain Master Data transaction. Figure 2.2 shows a transaction with an example employee and some of the infotypes maintained with it.

Personnel Administration infotypes are always created for a specific employee

Figure 2.2 Main Screen for Personnel Administration Maintenance

Personnel Administration infotypes are used to record employee-based information. Within Personnel Administration there are two different types of infotypes:

- › *International infotypes*
 - These are used by many countries, and it's worth noting that within this set, SAP allows *country-specific views of international infotypes* to provide more flexibility.
- › *Country-specific infotypes*
 - Where required, SAP has also provided *country-specific infotypes* to meet country-specific requirements.

International Infotypes

These are the most widely used infotypes and are used for storing information that is required by most companies regardless of the employees' country. Some examples of the most commonly used international infotypes and infotype subtypes are listed in Table 2.4.

Infotype	Subtype	Name	Description
0000		Actions	Records details of personnel actions performed on employee
0001		Organizational Assignment	Stores details of employees' positions in the organization, their work locations and details of their employment
0002		Personal Data	Stores employees' key personal information: name, date of birth, gender, ID number, marital status, and so on
0006		Address	Employees' addresses
0006	0001	Permanent Address	Employees' home addresses
	0004	Emergency Address	The address of an employee's emergency contact person
	0005	Mailing Address	The preferred address for the employee to receive mail from the organization

Table 2.4 Examples of International Infotypes

Figure 2.3 shows Infotype 0006 Address subtype 0001 Permanent Address.

The screenshot displays the SAP Address Infotype (0006) form. The top section contains personal data: Personnel No. 20177, Name Ms Cath Whitaker, EE group A ABC Active, Pers.area ABCS South, EE subgroup AP ABC Permanent, Cost Center CCHR, Human Resources, Start 01.08.2008, To 31.12.9999, and Chng 25.08.2008 GREGN. The Address section is expanded, showing Address type Permanent residence, Street and House No. Somerville House, 2nd address line Reckitt Road, District/City Beverly Hills, California, Postal code/country 90210, CA, California, and Country Key USA. The Communications section is also visible, showing Telephone number 020745421, 1st add'l no. CELL 077415236, 2nd FAX1 074512315, and 3rd.

Figure 2.3 Address Infotype

Country-Specific Views of International Infotypes

SAP has succeeded in making infotypes very flexible in that an international infotype can have different fields available for input depending on the country of the employee whose data it holds. So, the fields contained in the infotype change depending on the country's statutory or organizational requirements.

Ex Example

In Infotype 0002 Personal Data, the country-based information is displayed depending on the employee's location.

You can see specific country fields in Table 2.5.

Country	Country-Specific Field
Great Britain	National ID Number
Ireland	PRSI Number
U.S.A.	Social Security Number
Canada	Social Insurance Number

Table 2.5 Examples of Country-Specific Data in International Infotypes

Figure 2.4 shows Infotype 0002 Personal Data for Great Britain.

Personnel No. 20177

EE group A ABC Active Pers.area ABCS South

EE subgroup AP ABC Permanent Cost Center CCHR Human Resources

Start 28.12.1974 To 31.12.9999 Chng 25.08.2008 GRE6N

Name

FOA key Ms

Last name Whitaker Birth name

First name Cath Initials C.M.

Middle name Megan

Name Format Form-of-Address Key,First N Name Ms Cath Whitaker

Additional data

Natl.ins.no. A516454B

Birth date 28.12.1974 Birthplace Wolverhampton

Gender Female

Nationality British GB

Language English

Marital status

Mar.stat. Marr. Since 24.01.2004

No. child. 11

Figure 2.4 Infotype 0002 for Great Britain with Country-Specific Field National

Insurance Highlighted

Country-Specific Infotypes

Many companies require information to be recorded that is only relevant to employees in one country. SAP ERP HCM accommodates this through the use of country-specific infotypes. These infotypes are only visible and available to the employees in that country and are designed to meet the specific needs of the country.

Some examples of country-specific infotypes are shown in Table 2.6.

Infotype	Name	Country
0013	Fiscal Data	Germany
0039	Additional Organizational Assignment	Austria
0048	Residence Status	Switzerland
0088	Maternity Data	Great Britain
0222	Superannuation	Australia

Table 2.6 Examples of Country-Specific Infotypes

Country-specific infotype subtypes are also delivered for international infotypes when a new infotype is not required, but country-specific data is required for the infotype (Table 2.7).

Infotype	Name	Subtype	Name	Country
0006	Address	US01	Paycheck Location	U.S.A.
0021	Family Members	J1	Guarantor	Japan
0045	Loans	B230	Mortgage	Belgium
0057	Membership Fees	AR03	Wood Workers Union	Argentina
0057	Membership Fees	MX01	Single Workers Union	Mexico

Table 2.7 Examples of Country-Specific Infotype Subtypes

Now you have an overview of the employee-focused Personnel Administration infotypes. Next, let's look at the more generic Personnel Development infotypes.

Personnel Development Infotypes

Personnel Development infotypes (PD infotypes) differ from Personnel Administration infotypes in that they are not specific to employee records but instead are defined for Organizational Management (OM) objects. Personnel Development infotypes are used in the Organizational Management and Personnel Development components to hold and link the followings types of information:

Personnel Development infotypes are not always employee focused

- › Personnel Development:
 - Employee potential and qualifications
 - Career and succession planning
 - Employee appraisals and development plans
- › Organizational Management:
 - Organizational units
 - Positions
 - Jobs
 - Relationships between objects

Personnel Development infotypes are very different from Personnel Administration infotypes and are used for very different tasks in Personnel Development and Organizational Management. Their use will be covered in more detail in the respective chapters on these topics.

Figure 2.5 shows the most common infotype in Personnel Development, Infotype 1000: Object.

Organizational unit	HR	HR
Planning Status	Active	
Validity	01.01.1900	to 31.12.9999
<input type="button" value="Change Information"/>		
<hr/>		
Object	01 O 20000018 1	
Object abbr.	HR	
Object name	Human Resources Department	
Language Key	English	
Record 1 of 1		

Figure 2.5 Example of a Personnel Development Infotype

Another key element in Employee Administration is the concept of a *wage type*.

Wage Types

Wage types are used to store payroll-related figures

Wage types are used in Personnel Administration and Payroll for storing the amounts, rates, and time units of payments and deductions that are subsequently used in payroll processing to calculate an employee's pay.

Wage types are primarily stored as components of an employees' pay in Infotype 0008 (Basic Pay), or as a one-time or recurring payment and deduction on either Infotype 0014 (Recurring Payments/Deductions) or Infotype 0015 (Additional Payments and Deductions).

The concepts behind wage types and their use in the payroll process are covered in more detail in Chapter 8, Payroll and Legal Reporting. In brief, wage types are defined by a four-digit customer-defined code. Wage types can be defined as payments or deductions and can store the following information for payroll processing:

- › Wage type number/code
- › Name
- › Number

- › Unit
- › Rate
- › Amount
- › Costing information

Figure 2.6 shows a payment wage type assigned to an employee.

Personnel No	20177		Name	Ms Cath Whitaker	
EE group	A	ABC Active	Pers.area	ABCS	South
EE subgroup	AP	ABC Permanent	Cost Center	CCHR	Human Resources
Start	01.08.2008	to	31.12.9999	Chng	25.08.2008 GREGN

Recurring Payments/Deduction (0014)					
Wage Type	3215		Training Allowance		
Amount	5,420.00		USD	<input type="checkbox"/> Ind.val.	
Number/unit					
Assignment Number					
Reason for Change					

Figure 2.6 Example Wage Type for a Training Allowance Assigned to an Employee

In addition to wage types, SAP ERP HCM also uses an element known as pay structures.

Pay Structures

Pay structures are used to define and group employees into their salary- and pay-related groups. They are especially useful for managing complex groupings of employees in highly structured work environments, where industrial-relations-related employee groupings and definitions are required, and also for employee populations where salary bands or grades are utilized. There are two basic types of pay structures that can be defined in SAP Employee Administration: Pay Scales and Pay Grades. Pay scale structures are typically defined for hourly or wage employees and those working under collective bargaining agreements. Pay grade structures are typically defined for salaried or non-wage employees.

Ex Example

Pay structures are used to group employees into regional, legal, financial, or industry groups and are then used to manage the salary or pay rates within those groups.

Pay scales hold all of your rates of pay

Pay scales commonly define specific rates of pay, including steps or levels of pay. They can be set to be overwritten or, if required, to be read-only, allowing no deviations from standard or pre-defined wage rates.

In addition, pay grades can be used for salaried employees, where pay is typically not as rigidly defined. Salary bands, grades, and ranges can be defined which allow management ranges within the bands, and enhanced reporting and analysis of salaries within the company.

Within Employee Administration, standard programs are provided to automatically update pay scales and pay structures, as well as employee data, so that changes in employment agreements and company pay policies can be quickly reflected.

The pay scale hierarchy is shown in Table 2.8.

Object	Description	Example
<i>Pay scale type</i>	The highest level of pay structure; used to define a specific area of economic activity for which a collective agreement is valid	01 – Metal Workers Union 02 – Curtain Makers Union 03 – United Kingdom Collective Agreement
<i>Pay scale area</i>	Defines an additional structure grouping for pay, usually based on geographical or regional variations in pay among wage or labor employees	A001 – South East England A002 – Scotland A003 – Wales A004 – The rest of England

Table 2.8 SAP ERP HCM Pay Scale Structure

Object	Description	Example
<i>Pay scale group</i>	A data element linked to a specific combination of pay scale type and pay scale areas, a pay scale group usually defines specific jobs or roles that have specific pay requirements or contracts	MASTCUR1 – Master Curtain Maker APPRCUR1 – Apprentice Curtain Maker
<i>Pay scale level</i>	A more detailed breakdown of a pay grade in which specific pay steps within a group exist	00 – Level 3 \$52.00 01 – Level 2 \$45.82 03 – Level 1 \$22.45
<i>Employee subgroup grouping for collective agreement provisions</i>	Used to assign different pay scale types and areas to specific employee groups and subgroups	1 – Hourly wages 2 – Monthly wages 3 – Salaried employee

Table 2.8 SAP ERP HCM Pay Scale Structure (Cont.)

The pay grade hierarchy is shown in Table 2.8.1.

Object	Description	Example
<i>Pay grade type</i>	The highest level of a pay grade structure; used to define a specific type of structure that is associated with a certain group of employees.	01 – Executive 02 – Technology Union 03 – General
<i>Pay grade area</i>	Defines an additional structure grouping for pay, usually based on regional or geographical differences within a pay grade structure.	A001 – San Francisco A002 – USA A003 – London A004 – England

Table 2.8.1 SAP ERP HCM Pay Grade Structure

Object	Description	Example
<i>Pay grade</i>	A data element linked to a specific combination of pay grade type and pay grade area, a grade typically defines a specific range or band of salaries within which an employee's salary will fall.	TECH1 TECH2 Exec1 Exec2 GRD27 GRD26 GRD25
<i>Pay grade level</i>	A more detailed breakdown of a pay grade which can also hold a specific range of salaries and a control or reference point against which salary evaluations can be performed.	00 – 21,000 USD – 28,500 USD 01 – 26,400 USD – 32,000 USD 03 – 29,300 USD – 34,500 USD

Table 2.8.1 SAP ERP HCM Pay Grade Structure (Cont.)

Work Schedules

Work schedules allow you to map and manage your employee working times

The accurate recording and management of employee working time is one of the key aims of any SAP ERP HCM system. SAP ERP HCM uses work schedules to record your employees' planned or contracted working times. A work schedule allows you to view an employee's planned working time for any day, including planned start time (or range of start times), breaks (morning, lunch, afternoon, or as required), and planned finishing time.

You can quickly see an employee's planned working hours for a specific week, month, or year. Defining and mapping employees to the correct work schedule is immensely important to companies that operate in complex factory, manufacturing, or other labor environments. Knowing when employees should be at work, on a break, or not at work gives shift managers, roster supervisors, and time sheet

administrators valuable information to manage employee working times effectively. Companies that have mainly salaried staff working normal office hours are generally not as concerned about recording and tracking their employees working time. However, work schedules are still important to these types of companies so they can effectively manage vacations, sick leave, and other absence- and attendance-related activities. Work schedules are made up of the following components (Table 2.9).

Object	Description	Example			
<i>Daily work schedule</i>	Define the authorized working times and break times for a single day; can record fixed working times, flextime, and days off	DWS	Start	End	Total
		00A	8:00am	5:00pm	7.5hrs
		00B	9:00am	6:30pm	8.0hrs
		OFF			0.0hrs
<i>Break schedule</i>	Used within a daily work schedule to define employees' breaks from work	BS	Start	End	Total
		01	9:30	10:00	0.5hrs
		02	12:00	1:00	1.0hrs
<i>Period work schedule</i>	Combinations of different daily work schedules (including working and non-working schedules) linked together to map an employee's planned working time for a week or a rolling roster	PWS	DWS		
		01	00A		
		02	00A		
		03	00B		
		04	00B		
		05	00B		
		06	OFF		
		07	OFF		

Table 2.9 Work Schedule Components

Object	Description	Example				
Work schedule rule	Combines a period work schedule with a public holiday calendar and then applies it to a specific period of time to map an actual period of work	Day	Month	Year	PWS	DWS
		22	Jan	2009	01	00A
		23	Jan	2009	02	00A
		24	Jan	2009	03	00B
		25	Jan	2009	04	00B
		26	Jan	2009	05	00B
		27	Jan	2009	06	OFF
		28	Jan	2009	07	OFF
Personal work schedule	An employee's actual working time, taking into account the planned working time from the work schedule and absences, attendances, and substitutions					

Table 2.9 Work Schedule Components (Cont.)

Figure 2.7 shows an employee's work schedule details.

Personnel No	20177	Name	Ms Cath Whitaker
EE group	A ABC Active	Pers.area	ABCS South
EE subgroup	AP ABC Permanent	Cost Center	CCHR Human Resources
Start	08/01/2008	To	12/31/9999
		Chg.	08/25/2008 GREGN

Work schedule rule	
Work schedule rule	40.00HRS 40 hours
Time Mgmt status	0 - No time evaluation
<input type="checkbox"/> Part-time employee	

Working time	
Employment percent	100.00
Daily working hours	8.00
Weekly working hours	40.00
Monthly working hrs	173.33
Annual working hours	2080.00
Weekly workdays	5.00

Figure 2.7 Employee Work Schedule

Work schedules are also the main source of information in the SAP HCM Time and Attendance functionality, and are discussed in more depth in Chapter 7.

Now that we have reviewed what we can store in Employee Administration and how this information is stored, we need to look at what we do with the data.

What Can You Do with the Data?

One of the main purposes of Employee Administration is to streamline and automate the basic processes related to personnel and employee information management. SAP ERP HCM does this by providing tools that support the core tasks related to Employee Administration, including master data maintenance.

Master Data Maintenance

SAP ERP HCM provides a central employee maintenance transaction that can be used across many of the components to create, display, edit, copy, and delete master data. The maintenance transaction (called *Maintain HR Master Data*) allows you to quickly view all of an employee's data, including employee history, in an overview or detail mode.

As we discussed earlier, all employee master data is stored in infotypes. Each infotype is defined with a *time constraint* that applies a specific validity rule to the infotype. An example of these rules is a time constraint that determines if an infotype record must always exist for an employee while he is active at the company. Time constraints also determine if an infotype can exist multiple times for the same period for an employee and whether the infotype can have overlapping records, or if records must be sequential with no time gaps in between records.

Master data entry is further enhanced by the provision of the *object manager*. This tool appears on the side of the data maintenance screen and allows you to select groups of employees via a search tool. You can then switch quickly between them as you perform your data

The object manager allows you to search your data easily

maintenance. In addition, commonly used employee searches can be stored for quick access, further speeding up data maintenance.

Another feature is the *personnel file* function, which allows you to scroll through an employee's virtual file and displays all of an employee's infotype records in chronological order.

When significant employee lifecycle changes such as hiring, promotions, or transfers take place, in order to record all of the details of the changes, HR administrators often have to maintain multiple infotypes. Personnel actions are used to control the editing of multiple infotype records.

Personnel Actions

Personnel actions
link infotypes
together to speed
up processing

SAP ERP HCM uses a system called *personnel actions* to link together strings of infotypes so that they can be performed sequentially. Personnel actions are used to speed up common processes such as hiring employees, performing organizational reassignments, and processing terminations. Each personnel action contains all of the infotypes required for that specific action, allowing the user to proceed sequentially through the screens for inputting all of the required information. Different versions of the same action can be defined for different types of employees and for different countries, which allows you to tailor them to specific requirements and speed up data entry tasks.

Ex Example

When an employee is transferred from one regional office to another, the following infotypes are likely to be processed as part of a Transfer action:

- 0000 Actions
- 0001 Organizational Assignment
- 0006 Address
- 0007 Planned Working Time
- 0008 Basic Pay

Figure 2.8 shows an example of a set of commonly used actions for a company.

The screenshot shows the SAP Personnel Actions screen for employee 20177. The top section contains fields for employee data: Personnel no. (20177), Name (Ms Cath Whitaker), EE group (A ABC Active), Pers.area (ABCS South), EE subgroup (AP ABC Permanent), Cost Center (CCHR), and Human Resources (Human Resources). Below this is a 'Personnel Actions' table with columns for Action Type, Personn..., EE group, and EE subg... The table lists various actions such as Starter - HR, Starter - Payroll, Change in Hours, Change in pay, Transfer - HR, Transfer - Payroll, Leaving - HR, Leaving - Payroll, Reentry - HR, and Reentry - Payroll. The table is currently empty, and a vertical scrollbar is visible on the right side.

Action Type	Personn...	EE group	EE subg...
Starter - HR			
Starter - Payroll			
Change in Hours			
Change in pay			
Transfer - HR			
Transfer - Payroll			
Leaving - HR			
Leaving - Payroll			
Reentry - HR			
Reentry - Payroll			

Figure 2.8 Actions Available for Process Changes to Employees

Master Data Fast Entry

This tool is designed to speed up the process of bulk data entry. It allows you to process infotype updates for multiple employees simultaneously. Employees can be selected dynamically using a set of reporting tools to select only the employees you require, based on your own search criteria. In *fast entry* only the fields that you require for input are displayed, depending on the infotype you have selected. This tool provides valuable time savings when you need to process bulk employee updates such as bonus payments, increases in recurring allowances, or the termination of a specific payment to a range of employees.

Reporting

Recognizing that any HR system is only as good as the information that can be retrieved from the system, over 200 reports are delivered

as standard. For ultimate flexibility, two standard reporting tools are delivered that allow users to create their own reports. These tools are *InfoSet Query* and *SAP Query*. The two tools offer differing levels of complexity and power, allowing users to work with a simple click and drag report producer or a more complex reporting tool with more input and output options. All of the data stored in the Employee Administration infotypes is also available for reporting from external reporting tools such as SAP Business Intelligence (BI) without having to spend time on programming. More information on SAP ERP HCM's reporting capabilities can be found in Chapter 8.

Audit Information

The amount of audit information you collect is fully configurable

As a standard function defined during system implementation, master data entry can be automatically checked as it is entered to ensure it is correct and valid. Any changes to employee-related data are stored in the audit log clusters to ensure that all activities can be tracked and traced.

The level of audit tracking is able to be defined by the company during system implementation. Single fields or entire infotypes can be set to have changes logged. This flexibility allows audit reporting to focus on key pieces of information and ignore non-essential data changes.

The audit log report can be run for the following combinations of audit searches by:

- › Employee
- › Infotype
- › Time and/or date

The report output then shows the following information:

- › The user responsible for the change
- › The time and date of the change
- › The type of change (creation, change, deletion)
- › A field-by-field breakdown of all changes made

A similar report is available for reporting on changes to Personnel Development infotypes.

Archiving

With most large SAP ERP HCM systems, the question eventually becomes not *if* you are going to archive your data but *when*. Most multinational SAP ERP HCM systems reach a point where the databases are getting too large, or a large portion of the data is obsolete for day-to-day requirements, but the data is still required for long-term access requirements and legal reporting purposes. Large volumes of data slow down system response times and make the system inefficient—not to mention frustrating. Data archiving is facilitated in SAP ERP HCM using SAP NetWeaver technology. The process for archiving in the SAP ERP HCM components is consistent with the process used in other parts of SAP ERP.

Within SAP ERP HCM, you can choose which pieces of information you archive and from what time they are archived. The archiving decision can be made based on several criteria including the following commonly used objects:

- › Personnel Administration records
- › Payroll results
- › Time evaluation results
- › Payroll posting documents
- › Time sheet data

The SAP ERP archiving process allows you to determine a proactive archiving and retrieval process so you can balance system response against reporting requirements to ensure you get the best of both worlds.

Authorizations

Authorization and security controls within SAP ERP are an area of specialty all on their own. The ability to view, edit, or delete employee data is a critical component of any SAP ERP HCM system, so it's good to know that SAP ERP's authorization control for SAP ERP HCM is

Employee Administration's standard archiving solution makes archiving and retrieval stress free

Authorizations allow you full control of who sees what and when they see it

built around the standard logic used across all SAP ERP components. Authorizations and accesses can be controlled at an employee, info-type, wage type, personnel area, subarea, employee group, employee subgroup, or organizational level, providing significant flexibility in maintaining control of your employee data. Authorizations can be built around role authorizations, where the authorizations for a user are dependent on the user's job, and via structural authorizations, where the authorizations are assigned depending on where the employee works in the company.

In addition to the ability to control access to employee data, SAP ERP HCM also gives you the ability to control your users' access to transactions and reports, allowing you to create authorizations that meet the specific requirements of your company. Employees can be authorized to run payroll, but only in test mode; they can be allowed to access their own data, but only in display mode, or in maintain mode for some infotypes and display for others.

SAP ERP HCM also contains a tool called the *Profile Generator*, which allows you to maintain authorizations for people who have different job roles and perform the same functions for the same position but in different company areas. This gives you the ability to create custom authorizations where required and the ability to reuse the same authorizations across the company.

Integration

Employee Administration is seamlessly integrated with all of the other SAP ERP HCM components

As mentioned earlier, Employee Administration is the core of the SAP ERP HCM product. Employee Administration is fully integrated with all of the other SAP ERP HCM components, either directly through the data stored in PA infotypes or via links and relationships between this data and data stored in PD infotypes or even other SAP application areas, such as cost centers (which are stored in Finance/Controlling). This means that, for example, changes to an employee's cost center are picked up instantly by payroll, and a change to an employee's marital status will have an instant impact on which employee benefits he is entitled to in the Benefits function. Employee Administration draws finance information, such as cost centers and company codes, straight from the SAP ERP Financials component; therefore, any cre-

ations or changes to a cost center done there will be instantly visible in Employee Administration. The seamless integration capability of SAP ERP HCM has always been one of its main benefits.

So let's take a look at a British satellite company to see Employee Administration at work.

Case Study

Table 2.10 provides you with a quick overview of a case study before we explain it in more detail.

Company	British Satellite Company
Existing Solutions	SAP R/3 for Finance and Controlling
Challenges	Replace and consolidate separate MS Excel- and Access-based HR administration system and separate legacy payroll system
SAP Solutions	SAP Employee Administration and Payroll
Benefits	Centralized employee information storage Increased process efficiency Divulged data ownership

Table 2.10 SAP Employee Administration Case Study

This relatively small British company manages a highly qualified workforce spread across the globe. The company owns and operates a global satellite network offering global communication services. The company has 600 employees spread over eight countries.

The Challenges

Running two employee data management systems, the HR and Payroll departments operated in a totally autonomous manner with no automatic interface between these two independent systems. Employee master data changes from the HR side (for example, new hires and terminations) were often not communicated to the payroll team, resulting in an unreasonably high error rate in payroll. Similarly, employee

data changes such as pay increases or adjustments in allowances and benefits were often only updated in the payroll system, meaning the HR system was frequently looking at incorrect data.

The SAP Solution

Over an eight-month period, the implementation team replaced the separate HR and payroll systems with Personnel Administration, Organizational Management, Benefits, and Payroll. Significant time was taken to understand the business processes of both the HR and payroll teams, which were widely different despite large overlaps in responsibility. The new system integrated the requirements of both departments into one set of consistent and efficient processes. Automatic integration with the existing finance system was also introduced to streamline the payroll process. Numerous master data conflicts were encountered during the data cleanse and upload process; employees terminated in one system but not the other, differences in employee salary and benefits data, and even ghost employee records all needed to be investigated and resolved before they could be uploaded.

The Benefits

The biggest benefits the company received were related to the centralizing of their Employee Administration systems. For example, now when new employees are hired, they are instantly available to both the HR and Payroll departments. All of the errors and omissions related to the double entry of employee data are instantly removed by the single centralized system. Both teams save considerable amounts of time in data entry because data only has to be entered once.

Through the maintenance of a single employee data system, the company was able for the first time to allocate distinct areas of responsibility and authorization between the two departments, ensuring that employee data is only maintained by the responsible teams, reducing data entry errors.

Having a centralized Employee Administration system also allows the company to effectively control its employee absence data. The central

system allows them to assign leave quotas, and for the first time all unpaid leave is guaranteed to be correctly calculated and deducted from employee payroll results.

The creation of a centralized organizational structure through the use of Organizational Management also had immediate benefits, giving the team the ability to quickly get an overview of the company's structure rather than relying on manually created and maintained PowerPoint documents.

One of the small but surprisingly important benefits of the system from the user's point of view was the access to up-to-date correct finance information, such as new cost centers and cost objects, one of the great benefits of integration with the Finance component.

Summary

Employee Administration gives you a system that efficiently and effectively manages your employee data, freeing up your HR administrators' time to focus on the more strategic (and interesting) parts of their roles.

In this chapter:

- › We discussed the wide range of information that can be stored in Employee Administration, how that information is managed, how it is stored, and most important, what we can do with it.
- › We were introduced to some of the key concepts in SAP ERP HCM including infotypes, wage types, pay structures and work schedules.
- › We discussed the many tools available for maintaining, updating, and reporting on employee data and how this data is integrated with other SAP ERP HCM components.
- › Reflecting on the importance of keeping employee data safe and secure, we discussed the security controls and options for managing the critical and sensitive data that we store and manage in Employee Administration.

- › We reviewed a case study demonstrating some of the benefits received by one company from centralizing all of its employee data into one database.

In the next chapter we will learn about another key component of SAP ERP HCM: Organizational Management. This component creates the foundation for company organizational structure views, manager and employee self-services, workflow, and integration with other Personnel Development functions such as Performance Management, Career and Development Planning, Succession Planning, Recruiting, and Learning Solution.

Index

A

ABAP Query, 403
ABAP reports, 205
Actions, 94, 95, 103
Adobe forms, 227, 230
Adobe interactive forms, 386, 394
Adobe PDF, 106, 205
AICC, 296
Alerts, 415
Applicants, 412
Appraisal Evaluation and Survey tool, 414
Appraisal method, 395
Appraisals, 307
Appraisals catalog, 328
Appraisal templates, 328
Archiving, 59, 234
Asset Accounting, 387, 401
Attendances, 162
Audit, 58, 210
Audit information, 58
Authentication for Employee Interaction Centre, 378
Authoring Environment, 288
Authorizations, 59, 88, 234
Automatic letter generation, 106
Awards, 345

B

Balanced Scorecard, 326, 403
Base salary, 100
Benefits, 203, 218, 227, 376, 378, 415
Benefits area, 126
Benefits Enrollment, 137, 381
Benefits Management, 381
Benefits offer, 130
Benefits plan, 128
Benefits program, 127
BI, 211
Bottlenecks, 229
Break schedule, 53, 160

Broadcast messages, 415
Budget, 342, 401, 402
Budgeting, 337, 342, 392, 402
Budgets, 302
Budget units, 343
Business Intelligence, 403, 416

C

Calendar, 398
Candidate profile, 382
Career and Succession Management, 104, 254
Career Management, 270
Career path, 272
Careers, 272
CATS, 378, 404
Central person, 113
Checklist, 99
Child Object, 75
Client, 38
Clusters, 182, 201, 208
Collaboration Rooms, 288, 306
Company code, 38
Compensation categories, 353
Compensation component, 353
Compensation guidelines, 355
Compensation Management, 204, 352
Compensation Management INFO-TYPES, 361
Compensation Management Reporting, 364
Compensation model, 352
Compensation package, 100, 104, 352
Compensation Packages
 Fixed Compensation, 353
 Long-Term Incentives, 353
 Variable Compensation, 353
Compensation Program, 338, 352
Content Management System, 295
Content Player, 305
Contracts, 234
Controlling, 342, 401, 403

Corporate Information Management, 386
 Cost centers, 68, 73, 401
 Cost Items, 339
 Cost management, 392
 Cost Objects, 339
 Cost of living, 101
 Country-specific infotypes, 43, 46
 Country-specific views of international infotypes, 43, 45
 Course catalog, 298
 cProjects, 401, 403
 Credit memos, 402
 Criteria, 278
 CRM, 414
 Cross Application Time Sheets (CATS), 204
 CRT, 217
 Curricula, 299
 Customer Relationship Management (CATS), 411
 Custom relationships, 76

D

Daily work schedule, 53, 160
 Data Medium Exchange, 205
 Data Medium Exchange file (DME), 202
 Dependents, 98
 Designate, 281
 Designated, 276
 Development catalog, 319
 Development plans, 317
 Digital personnel file, 224, 227, 234
 DME, 205
 Documents, 97, 99, 224, 226

E

EIC, 411
 Electronic files, 218
 Electronic records management, 234
 Email, 232

Employee benefits, 197
 Employee compensation, 392
 Employee data, 215
 Employee Eligibility, 353
 Eligibility Groups, 355
 Eligibility Rules, 354
 Employee group, 39
 Employee Interaction Center, 388, 409, 411
 Employee master data, 215
 Employee Self-Service, 203, 359, 371
 iViews, 390
 Shop Floor Terminals, 389
 Employee-Specific Infotypes, 361
 Employee subgroup, 39
 Employee subgroup grouping for collective agreement provisions, 51
 Employer data, 215, 217
 Enhancement package, 213
 Enterprise Compensation Management, 335, 399
 Enterprise Learning Management, 240, 275, 400
 Enterprise Portal, 224, 226, 233, 350
 Enterprise structure, 38, 196
 Equipment Monitor iView, 401
 e-Recruiting, 382, 388, 417
 E-Recruitment, 400
 ESS, 205, 412, 415, 416
 ESS and MSS, 359
 Exchange rate, 102
 Exchange rates, 101
 Expert Mode, 82
 External salary surveys, 348

F

Factory calendars, 158
 Family/Related Persons, 98
 Fast entry, 57
 Filing cabinet, 234
 Finance, 203, 205
 Financial planning, 342
 Fixed Guidelines, 355
 Flexible benefits, 147

Forms, 224, 226
 Functions, 198, 199, 213

G

GECCO, 106
 General Data, 397
 Global assignment, 94, 105
 Global commuting, 102
 Global Employee Compensation Calculation Overview, 106
 Global Employee Management, 94
 Gross payments, 192
 Gross payroll, 197
 Grouping of personnel assignments, 116

H

Healthcare benefits, 227
 Health care selections, 227
 Holiday calendars, 158
 HR administrator portal, 224
 HR administrator role, 232
 HR Process Workbench, 208

I

Inbox, 229
 Incentive Wages, 171
 Individual development plans, 321
 Individual Employee Processing, 356
 InfoSet Query, 58
 Infosubtypes, 42
 Infotype, 42, 95, 132
 Infotypes, 37, 77, 194, 216, 263, 309
 Inheritance, 76
 Instructional Design Editor, 292
 Instructor Portal, 307
 Integration, 60, 85, 107, 136, 203, 404
 Interface Tool Box, 198, 211
 Internal orders, 401
 International infotypes, 44
 Invoices, 402

iView, 373, 382, 393, 395

J

Job catalog, 73
 Job index, 80
 Job Pricing, 337, 348
 Job Pricing Data, 349
 Job-Pricing Process, 349
 Jobs, 68, 73, 273

K

Knowledge Management, 414

L

Labor laws, 197
 Learning calendar, 300
 Learning Portal, 303
 Learning Solution, 404
 Leave and absence management, 392
 Leave quotas, 398
 Leave request, 231, 379, 397
 Legal documents, 234
 Legal reporting, 205, 210, 214
 Legal requirements, 218
 Life events, 347
 Logistics, 174
 Long-Term Incentive Plans, 345
 Long-Term Incentives, 337, 344

M

Maintaining Long-Term Incentives
 Granting, 346
 Vesting, 346
 Manager Self-Service (MSS), 203, 228, 257, 336, 359, 373, 391
 Mass Activation, 106
 Mass Data Maintenance, 357
 Master data fast entry, 57
 Master ticket, 414
 Materials Management, 301
 Matrix Guidelines, 355

Matrix organizations, 80, 83
 Microsoft Word, 106
 Military service, 216
 Monitoring of Tasks, 397

N

Negative time recording, 155
 Net payments, 192
 Netweaver Business Intelligence, 260
 NetWeaver Business Warehouse, 364

O

Objective setting, 324
 Object manager, 55
 Objects, 67
 Off-cycle payroll, 208
 Operations, 198, 199, 213
 Organizational key, 40
 Organizational Management, 47, 214, 400
 Organizational master data, 196
 Organizational plan, 80
 Organizational structure, 40, 80, 224, 308, 400, 404, 415
 Organizational-Structure-Related Infotypes, 363
 Organizational units, 68, 70

P

Page, 374, 394
 Parent object, 75
 Participation monitoring, 141
 Participation overview, 140
 Passports, 98
 Payment Administration, 381
 Payments in a local currency, 102
 Payroll, 102, 107, 191, 302, 382
 Payroll area, 39, 196, 200, 206
 Payroll cluster, 218
 Payroll clusters, 201, 216
 Payroll control record, 206
 Payroll driver, 198

Payroll engine, 198
 Payroll Exception Report, 209
 Payroll for Global Employees, 107
 Payroll Interface Toolbox, 197
 Payroll Journal, 209
 Payroll period, 199
 Payroll periods, 196
 Payroll process, 206, 207
 Payroll results, 208, 215, 216, 340
 Payroll schema, 198, 213
 Payroll solution, 192
 Pay scale area, 51, 52
 Pay scale group, 51, 52
 Pay scale level, 51, 52
 Pay scales, 49
 Pay scale type, 50, 51
 Payslips, 205, 381
 PDF, 106, 226
 Performance appraisals, 395, 397
 Performance Management, 275
 Period work schedule, 53, 160
 Personal Data, 397
 Personal work schedule, 54, 161
 Personnel actions, 56
 Personnel Administration, 36, 203, 204, 256, 262, 397, 399
 Personnel Administration infotypes, 77
 Personnel appraisals, 233
 Personnel area, 38
 Personnel Cost Planning, 337, 338
 Personnel Development, 47
 Personnel Development Infotypes, 47, 77
 Personnel file, 56
 Personnel structure, 39
 Personnel subarea, 39, 158
 Persons, 68, 72
 PI, 219
 Piecework, 172
 Planned Compensation Report, 364
 Planned Labor Costs Report, 364
 Plant Maintenance, 174, 387, 401
 Plan versions, 83
 Policies and procedures, 414
 Policy changes, 106

Policy Tracking, 106
 Portal, 374, 394
 Positions, 68, 70, 273
 Positive time recording, 155
 Posting, 401
 Prededuction, 139
 Process, 229
 Processes, 224
 Processing your compensation program, 356
 Process roadmap, 228
 Procurement iView, 387
 Production Control, 174
 Profile Generator, 60
 Profit centers, 401
 Project Systems, 174
 Publishing, 295

Q

Qualifications, 399
 Quota balances, 380

R

Recruitment Master Data, 258
 Recurring Activities, 302
 Regular payroll runs, 208
 Relationships, 67, 75
 Relocation, 104, 105
 Remuneration statements, 205
 Repatriation phase, 105
 Reporting, 57, 86, 208, 259, 364, 403, 416
 Reporting structure, 80
 Reports, 303
 Repository explorer, 295
 Resource Management, 301
 Resumes, 234
 Retirement plans, 142
 Retroactive accounting, 211
 for period, 212
 in period, 212
 Role, 374, 394

RT, 217
 Rules, 198, 199, 213

S

Salary Data, 399
 Salary survey, 349
 Sales and Distribution, 302
 SAP Business Connector, 219
 SAP Country Solutions, 193
 SAP Interactive Forms by Adobe, 224
 SAP Learning Solution, 286
 SAP legal reporting, 191
 SAP NetWeaver Enterprise Portal, 391
 SAP NetWeaver PI, 219
 SAP NetWeaver Portal, 265, 373, 393
 SAP Payroll, 191
 SAP Query, 403
 Schema, 180, 198
 SCORM, 296
 Search and Knowledge Management, 417
 Security, 88
 Service-Level Agreements (SLAs), 414
 Service Relationship Management, 401, 402
 Shared service center, 389
 Shift Planning, 174, 175, 204
 Skills profile, 383
 Standard objects, 69
 Statutorily compliant, 218
 Statutory master data, 196
 Statutory reports, 219
 Statutory requirements, 214
 Strategic Enterprise Management, 324, 326, 403
 Strategic goals, 392
 Structural authorizations, 89
 Substitutions, 162
 Succession Management, 270, 277
 Supplier Relationship Management, 386
 Support packs, 212, 213

T

Talent pool, 251
Task catalog, 80
Task group, 74
Tasks, 68, 74, 99
Taxes and garnishments, 197
Tax residence, 103
Test Author, 294
Test element, 291
Testing tools, 213
Text Retrieval and Information Extraction (TREX), 414
Time and Attendance, 204, 381, 398
Time constraints, 55
Time Evaluation, 174, 381
Time Management, 203, 378, 304
Time Manager's Workplace (TMWP), 168, 170, 171, 190
Time Off in Lieu of Leave (TOIL), 183
Time-recording machines, 379
Time Statement, 185, 381
Time tickets, 172, 174
Total Compensation Statement, 359, 382
Traditional Recruitment, 260
Training, 383
Training and Events, 276
Training history, 400
Training Management, 296
Transaction launcher, 415
Travel and Expense Management, 383
TREX, 414, 417
Types of Long-Term Incentives, 345

U

Universal worklist, 233, 396
User-Defined Guidelines, 356

V

Virtual Learning Rooms, 287, 305
Visa applications, 98
Visual mode, 81

W

Wage Type Reporter, 208
Wage types, 48, 201
Wage Type Statement, 210
Web-based training, 297
Work and Absence Approvals, 398
Work center index, 80
Work centers, 68, 73
Workflow, 87, 228, 229, 231, 308, 360, 395, 415
Workflow task, 88
Work permit, 98
Work schedule, 304
Work schedule rule, 54, 160
Work schedules, 52
Workset(s), 374, 394–395
WPBP, 217