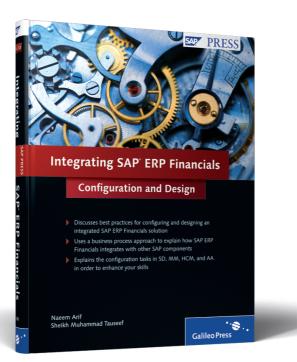
Naeem Arif and Sheikh Muhammad Tauseef

# Integrating SAP<sup>®</sup> ERP Financials

Configuration and Design





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This chapter explains the integration of SAP ERP Human Capital Management and SAP ERP Financials, focusing on two specific areas: Organizational Management and Payroll.

# 5 Integrating SAP ERP HCM with SAP ERP Financials

This chapter looks at the integration of SAP ERP Human Capital Management (SAP ERP HCM) and SAP ERP Financials. SAP ERP HCM replaces the SAP Human Resources component, which has been significantly expanded and now covers a number of areas.

In this chapter, we focus on the integration-related configuration and design of two SAP ERP HCM topics that have a significant amount of integration with SAP ERP Financials: Organizational Management (OM) and Payroll.

In Section 5.1, Process Overview, we offer an overview of the business processes involved in both topics. We start looking at OM in Section 5.2, where we focus on the building blocks of SAP ERP HCM, which you need to understand to follow the subject of Section 5.3. In Section 5.3, Employee Master Record, we focus on the key screens and fields on the employee master record that are relevant for payroll integration, and so complete our review of OM. Finally, we conclude the chapter with a discussion of the configuration and design of Payroll, as well as the all-important review of the posting of payroll to SAP ERP Financials, and the related integration points.

#### Note

The employee master record is a key part of integration so we have given it a separate section in this chapter to allow you to focus on all of the complexities that surround it.

#### Country-Specific Settings

The tricky thing about SAP ERP HCM is that the information sources governing the processes are the employment laws of the country in which you operate. For this reason, after you implement SAP ERP HCM, you must also implement the country-specific settings provided by SAP ERP. To keep on top of changes in statutory rules or regulations, you must keep your records up to date and ensure that you regularly download updates from SAP ERP.

As a result of the country-specific settings of SAP ERP HCM, you will notice that the IMG has country-specific menu paths. In the examples in this chapter, we look at settings for the United States and Great Britain; however, you should consult your own country-specific IMG location to see your own country-specific settings.

#### 5.1 **Process Overview**

Although many people mistakenly assume that the payroll process is the only area that SAP ERP Human Capital Management covers, the component is actually quite extensive. A comprehensive review (which is out of the scope of this book) would include the following:

- Employee administration
- Recruitment
- Personnel development
- Time management
- Benefits administration
- Talent management

In this section, we provide a process overview of the subjects that are most relevant to integration with SAP ERP Financials: OM and the payroll process. For each, we summarize the process, explain the key steps or objects, and discuss the points of integration.

#### 5.1.1 Organizational Management

Put simply, Organizational Management allows you to draw up your company's organizational structure, that is, charts that show who works where and who

reports to whom. If you think of this structure as a tree, each point in the tree represents a position and job role in the company. Using these charts, you can see in which department employees are located, which in turn should correlate to the cost center and hierarchy structure for your organization.

The complexity of these organizational charts varies from company to company. Of course, if you wanted to put a structure together for a company with 1000 employees, it would be a lot simpler than a multinational company operating in different sectors and different countries. However, regardless of its complexity, you can use the information contained in an organizational chart to drive and control a number of processes, such as approval of expenses or performance management.

There are many ways of managing an organizational chart, and SAP ERP is partnered with a number of products that facilitate this process. For the purposes of this chapter, however, we are concerned only with the standard delivered SAP ERP tools. Using these tools, you can define *nodes*, or positions, that represent a certain job in the organization. The system comes preloaded with more than 30 standard objects, but you can also create custom objects as necessary. Following are the main objects with which you should familiarize yourself:

#### Organizational unit

Every company is split into departments that OM represents using *organizational units*. This structure should reflect the way your company is set up, so it's not something that is fixed or defined.

#### Position

Within the organizational structure, *positions* exist to define where people actually sit within the organization: what they do, and whom they report to. This is usually fairly straightforward, in that one person occupies one position within an organization; however, it is possible to set up job sharing, whereby people work in several different positions, each for a certain percentage of their time. Positions can be assigned a specific cost center or can inherit one from a higher position; this defines where costs for this position are posted. A specific position's costs may also need to be distributed to different account assignment objects.

#### ► Job

A *job* in OM is a simple concept that defines the set of responsibilities belonging to a specific position. For example, the position of AP clerk has a set of specific responsibilities, which means that, if you have five AP clerks, they should usually be doing the same job.

#### Work center

A *work center* is a location where work is actually done, such as a workstation where a graphic designer is using his PC, a workshop, or a section within a workshop. This information is useful for shift planning, among other things.

#### Cost center

If you are familiar with SAP ERP Financials, you already know that cost centers are the main cost assignment object. Because employees usually incur costs, cost centers are the most common account assignment object to assign these costs to. The most frequent expense is the cost of paying an employee, but there are other costs, such as expenses and/or training, that need to be posted to an account assignment object. You can use other account assignment objects as well, for example, work breakdown structures (WBS) and internal orders (both of these concepts are discussed in more detail in Chapter 6, Integrating Asset Accounting, Investment Management, and Project Systems). In addition, when running balance sheet postings, you usually post to profit centers (as you will recall from Chapter 2, SAP Enterprise Structure).

Before we look at a specific organizational structure, let's consider some basic properties of such structures:

- Every person in the structure must have a chief, someone who is responsible for the people below him.
- Every position must have a person assigned to it.
- Reporting moves upward, so approvals for a certain position go the person above that position.

Figure 5.1 shows an organizational structure with units, positions, and - most importantly - people assigned.

As you can see, each object is assigned a unique eight-digit code, which is the way SAP ERP internally indexes and stores this information.

The organizational structure is used to determine a person's manager. This is important for both SAP ERP HCM and Financials purposes because managers are required to approve costs incurred by their staff.

Staff Assignments (Structure)	ID	Chief Workflow
🗢 🗖 IDES AG	O 00000001	
D IDES New Zealand Company	O 50003514	Managing Direc
👂 🗔 Compañía Modelo CO	O 50003776	Director General
Exec.directory - Germany	O 00000100	Dr. Herbert Bra
Executive Board - Italy	O 00000220	
D IDES Nederland	O 50002925	
🗢 🗖 Executive Board - USA	O 00000300	Mrs Debbie Dav
D 🗄 Chief Executive Officer (US)	S 49999998	
Executive Assistant to CEO (US)	S 49999999	
D Derations - (US)	O 50000590	Mr. John Willia
Human Resources	O 50000595	Mr. Mark Taylor
🗢 🗖 Information Services - (US)	O 50000597	
🗢 🤷 Vice President - Information Serv. (US)	S 50000175	
🔀 Mr. Azam Arif MBA	P 00099001	👂 🔲 Organizational unit
D D Network and Telecomm Services- US	O 50016648	Position
D Business Systems Support (US)	O 50022115	D 📾 Job
IT End User Services - (US)	O 50028927	👂 🏟 Person
IT Support Services - (US)	0 50010271	D 🚯 User
D 🔲 Sales - (US)	O 50000611	D 🖁 Task
Recruiting (US)	O 50003726	👂 🕲 Business Partner
Product Development	O 50003800	D 💿 Project

Figure 5.1 Organizational Structure

#### 5.1.2 Payroll

Payroll remains the highest profile area of SAP ERP HCM and is important in understanding Financials and SAP ERP HCM integration. The process starts in SAP ERP HCM, when employees exist and their salary and deductions are calculated. After calculating the overall payroll, we then determine the correct general ledger accounts and account assignment objects before creating the financial postings.

The payroll process involves the following key concepts:

#### Payroll Engine

The *Payroll Engine* is the name given to the program that calculates and posts payroll results. It takes into consideration a number of different things, including the following:

- A country's statutory requirements
- An employee's basic pay
- ▶ Time and attendance information

As previously mentioned, SAP ERP provides country-specific templates that can calculate rules for you. These rules are stored within the payroll schema, and, if needed, can be enhanced to include an organization's specific requirements.

#### Payroll area

*Payroll areas* allow you to control the way in which you pay people. Many organizations have employees that are paid for different time periods (e.g., weekly or monthly). With Payroll, you can pay different payroll areas over different payroll periods. All employees are assigned to a single payroll area.

#### Retroactive (retrospective) changes

You can process retroactive payments in SAP ERP HCM because sometimes corrections to employee data are not known or processed until after payment is made. Thus, if an employee is entitled to back pay, this can be automatically calculated based on the change in circumstances. The HR changes are time specific and date specific, so when you next run payroll, the system calculates the changes and makes the adjustment in the next available period.

Note that changes in configuration do not trigger retroactive changes; only changes to master data trigger these changes. If you need to make a retroactive calculation, you must force the posting through or wait until the next payroll run.

Now that we've explained the key concepts in the payroll process, let's look at its three separate stages: the prerequisite stage, the payroll run, and the closing stage (also known as the *exit payroll* activity).

#### **Prerequisite Stage**

The system configuration for Payroll is based around the settings you make for the payroll area and the associated payroll calendar, which dictates the paydays. The process runs across the entire period, starting with the completion of the old payroll posting run. The payroll administrators then move on to the input phase, where they perform the administrative task of making changes to existing payroll records. This action is time-sensitive, meaning that they must start the payroll process at a specified day in the period to meet the time scales for the actual payment run.

All of this information tends to be contained within or linked to the payroll control record, which we discuss in more detail in the configuration part of the chapter (see Section 5.2.4, Payroll Control Record).

#### Payroll Run

After you start the payroll cycle, the system locks all payroll data and records while it runs a payroll proposal, just as it would run an F110 (automatic outgoing payments) proposal. This is called the *payroll simulation* run. You can run this several times to review the output and then make corrections to data that appears incorrect. Again, the only constraint is the payroll time table, which dictates when you need to run the real payroll posting run.

The Payroll Driver is the program that calculates your pay and references a collection of sources, including the rules defined within your payroll organizational structure, the payroll schema, the data captured on your employee master record, and any time recoding information that may be relevant to your final pay.

The actual calculation of the amount paid is based on what each employee is entitled to be paid, less any deductions they are due to make. Each element of pay is known as a *wage type*; there are wage types for all sorts of things, including basic pay, deductions, and bonuses.

### Exit Payroll

When the processing is complete, you must physically exit Payroll, which releases the control record and indicates that payroll administrators can start working on the next payroll period. This ensures that at any given point in time, the payroll is running on a fixed data set. If this were not the case, it would be possible for the actual payroll to differ from the figures in the payroll simulation. Even worse, the system could allow you to run a simulation successfully but then produce an error when you tried to complete the real payroll run.

The completion of the entire payroll process is the posting of a file (or files depending on the size of your payroll) to the ledger. We discuss this in more detail later (see Section 5.4.7, Full Payroll Posting to Finance).

## 5.2 Configuration and Design of SAP ERP HCM Building Blocks

This section looks at the configuration and design of the core objects that are needed as the basis for this chapter; these objects are the building blocks needed to execute the processes we cover.

#### Note

In this section, we only cover the building blocks that support our understanding of OM and Payroll.

In this section, we discuss the following objects:

- Personnel area
- Payroll area
- Control record
- Period/date modifier
- Payroll calendar

#### Note

Remember, as we mentioned earlier, these configuration settings are country specific.

In SAP ERP HCM, these key organizational objects are collectively referred to as the *personnel structure* of a company.

#### 5.2.1 Personnel Area and Subareas

From an SAP ERP Financials perspective, we are used to seeing the company code represent legal entities in line with statutory law. In addition to statutory laws, organizations also need to comply with HR laws, that is, the rules governing the way in which you employ and pay people. The personnel area is the highest object on the HR side, and we should use this to represent our HR rules and regulations. The personnel area is a placeholder against which you can assign the various rules and configuration objects, but you can also run reports against personnel areas. During configuration, personnel areas are assigned to company codes, as you can see in Figure 5.2.

Many types of laws affect HR rules, including the following:

- ► Tax law
- Benefits law
- Contributions law
- Recruitment law
- Civil law

Whenever there is a situation where there could be a difference in these laws, you may find separate personnel areas being set up.

Within the personnel area, there are other ways of segregating employees; the personnel *subarea* can be used to group together different types of employees. For example, you may have subareas for different parts of the country, or you may choose to set up subareas for salaried versus hourly staff.

Figure 5.2 shows where the configuration of the HR ENTERPRISE STRUCTURE is found within the IMG.

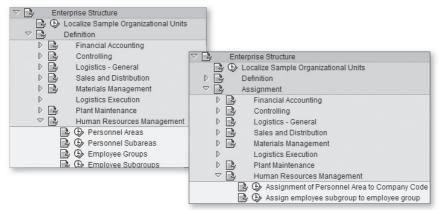


Figure 5.2 Configuration of the HR Enterprise Structure

Personnel areas are set up in the following area of the IMG: SPRO • ENTERPRISE STRUCTURE • DEFINITION • HUMAN RESOURCES MANAGEMENT.

In Figure 5.3, you can see that for each personnel area, you also need to enter some basic address information.

Personnel areas must be assigned to a company code (you can assign more than one personnel area to the same company code, but a personnel area cannot be assigned to more than one company code). Based on what we've discussed so far, it should be clear that a personnel area can only be assigned to one company code, although you may want to assign multiple personnel areas to the same company code. In the United States, for example, there are different laws in each state, which may lead to the need for different personnel areas. The assignment of personnel areas to company codes is done in the following area of the IMG: SPRO • ENTERPRISE STRUCTURE • ASSIGNMENT • HUMAN RESOURCES MANAGEMENT.

	S D E I E E E E E	
Personnel area	Personnel Area Text	
1000	Hamburg	Hamburg
1100	Berlin	Berlin
1200	Dresden	Dresden
1300	Frankfurt	Frankfurt
House number/street	Alsterweg 34	
PO Box Postal Code	20038	
Postal Code	20038 Hamburg	
Postal Code City		
Postal Code Dity Country Key	Hamburg	
	Hamburg DE	

Figure 5.3 Personnel Areas

#### 5.2.2 Employee Groups and SubGroups

Employees can be split into employee groups, usually on the basis of their relationship with their employer, but also based on how they are paid or on their contract status (employees, contractors, retired, etc.). Because you must have personnel data for all people being paid, most companies have to maintain data for former employees who still receive funds from the payroll.

For each employee group, you can set up default values and report on your selections. You can also further divide up the employees into subgroups. When we look further into the configuration, you'll see that some configuration settings can be made by subgroups, a functionality that has great value.

Employee groups and subgroups are completed in the following area of the IMG: SPRO • ENTERPRISE STRUCTURE • DEFINITION • HUMAN RESOURCES MANAGEMENT. Assignment of employees and subgroups are completed in the following area of the IMG: SPRO • ENTERPRISE STRUCTURE • ASSIGNMENT • HUMAN RESOURCES MANAGEMENT.

#### 5.2.3 Payroll Area

As we discussed previously, separating employees into payroll groups requires setting up payroll areas, which controls when these employees are paid. In reality, a payroll function often requires running more than one payroll; for example, pensioners may have to be run separately and therefore have a different payment date.

Note

To make things easier, SAP ERP recommends setting up only those payroll areas that are absolutely necessary.

Define the payroll area in the following area of the IMG: SPRO • PERSONNEL MAN-AGEMENT • PERSONNEL ADMINISTRATION • ORGANIZATIONAL DATA • ORGANIZATIONAL ASSIGNMENT • CREATE PAYROLL AREA. Figure 5.4 shows the screen for setting up new payroll areas; make sure you select the PAYROLL FOR PA checkbox, which confirms that the payroll area is relevant for paying people.

'Payroll Areas - Relevant to Payroll"			
🞾 New Entries [	🦻 New Entries 🗈 🛃 🐼 🛃 🖶 🗟		
In			
Payroll area	Payroll area text	Payroll for PA	
\$F		¥	
00	HR-D: Sal. employees		
01	HR-D: Sal. employees	<b>V</b>	
02	HR-D: Sal. employees	<b>V</b>	
OV	Monthly Payroll VE	<ul> <li>Image: A start of the start of</li></ul>	
10	HR-D: Sal. employees	<b>V</b>	
1V Weekly Payroll VE			
20 HR-D: Sal. employees 🗸			

Figure 5.4 Payroll Area

### 5.2.4 Payroll Control Record

The payroll control record controls the actually running of the payroll and retains an audit trail detailing when a payroll is run and which users are processing it. This is a very different concept from what we are used to seeing in the Financials areas; after the payroll run begins, the control record locks all personnel numbers, preventing any changes from being made to those records. When the process is complete and you have exited Payroll, the record is updated accordingly and releases the master records. If you want to see who last changed the payroll record, this is visible by looking at the record.

In Section 5.1.2, Payroll, we briefly discussed the three stages of the payroll process: the prerequisite stage (when the payroll area is released for the payroll run), the payroll run, and exiting Payroll. Looking at this from a payroll control record point of review, the following is what happens in each stage:

#### Prerequisite stage

The control record is updated.

#### Run payroll

The control record locks all data involved. The payroll run is checked to ensure that it is complete and accurate, and then the status to Check Payroll Results is changed manually. If necessary, a corrective run is performed.

#### Exit payroll

The control records are released for processing.

This process is set up in the following area of the IMG: SPRO • PERSONNEL MAN-AGEMENT • PERSONNEL ADMINISTRATION • ORGANIZATIONAL DATA • ORGANIZATIONAL ASSIGNMENT • CREATE CONTROL RECORD. Figure 5.5 shows an example of a control record set up in the system.

Payrol	l control record
Payroll area	Z1 New Payroll Area
Payroll stat	us /
	Released f. Payroll
	Rel. f. Correction
	Exit Payroll
	Check Payroll Results
Payroll per Run	iod 01 2000 01.01.2000 - 31.01.2000 0
Earliest retr	o acctg period 01 1980 01.01.1980
Last chang	e to personnel control record
by	on at 00:00:00
Status	Created new

Figure 5.5 Payroll Control Record

#### 5.2.5 Payroll Calendar

Each company defines a *payroll calendar* that informs the pay dates for the year ahead. This could be a paper exercise, but you can also define a payroll calendar in the system and then use this calendar to automatically drive the payroll activities.

In practice, most companies tend to define the calendar and the payroll periods so that the Payroll Driver program can complete its calculation, but they still manually start the payroll process. In this discussion, we look at the configuration of several important elements that contribute to the payroll calendar.

You can access the payroll calendar (Figure 5.6) via the SAP Easy Access menu: HUMAN RESOURCES • PAYROLL • <YOUR COUNTRY> • TOOLS • PAYROLL CALENDAR.

Payroll calendar Financial calendar sample schedule					
Refresh & Scheduled task					
August 2009         September 2009         October 2009           Wk M0 TU WE TH FR SA SU         Wk M0 TU WE TH FR SA SU         Wk M0 TU WE TH FR SA SU           31         27         28         29         31         01         02         36         01         02         36         01         02         36         01         02         36         01         02         36         01         02         37         07         80         91         11         12         13         14         15         16         38         14         15         16         17         18         19         20         42         12         13         14         15         16         17         18         19         20         42         12         13         14         15         16         17         18         19         20         21         22         32         24         25         26         27         43         19         20         21         22         32         24         25         26         27         28         29         30         11         14         15         16         17         18         31         92         21					
Task Parameters Date Rep.per. Status					

Figure 5.6 Example of a Payroll Calendar

You can view the calendar and also define job scheduling. Job scheduling is configured in the following area of the IMG: SPRO • PAYROLL • (COUNTRY) • PAYROLL CALENDAR • DEFINE SCHEDULE FOR PAYROLL CALENDAR. As you can see from Figure 5.7, this is a fairly straightforward piece of configuration.

You must assign a factory calendar and a holiday calendar to decide working days. The specific dates for the start and end of each payroll period are defined by the period parameters in the following area of the IMG: SPRO • PAYROLL • (COUNTRY) • BASIC SETTINGS • PAYROLL ORGANIZATION • DEFINE PERIOD MODIFIERS. Figure 5.8 shows a number of period parameters, which is common in large complex organizations.

Change View	w "FI Financial Calendar - Person Responsible for Unit"
🦅 New Entries	
Schedule	SAP
Name	Financial calendar sample schedule
	/
Organizational unit	/
Organization object	
Dependnt units	
Calendar	
Factory Cal. ID	01
Holiday Cal. ID	08

Figure 5.7 Setting Up a New Payroll Calendar

Change View "Period Parameters": Overview				
🦅 New Entries 🗈 🖬 🕼 🖪 🖪				
Period Parameters	Name	Time unit	Start Date	
01	Monthly	01	01.01.1999	
02	Semi-monthly	02	01.01.2000	
03	Weekly	03	01.01.1990	
04	Bi-weekly	04	01.01.1990	
05	Every 4 weeks	05	01.01.1990	
06	Annually	06	01.01.1990	
07	Weekly DE	03	01.01.1998	
10	Quarterly	07	01.01.2000	
11 Monthly 01 01 . 01 . 1990				

Figure 5.8 Payroll Period Parameters

The actual pay date needs to be defined within each payroll period. As we mentioned earlier, there can be more than one pay date in a month for each payroll run; this is shown in the example in Figure 5.9. These dates are configured as date modifiers in the following area of the IMG: SPRO • PAYROLL • (COUNTRY) • BASIC SETTINGS • PAYROLL ORGANIZATION • DEFINE DATE MODIFIERS.

Change View "Date Modifiers": Overview			
🦅 New Entries 🗈 🛃 🐼 🛃 🖪			
Date modifier			
	Name Standard modifier		
	21st of the month		
	22nd of the month		
23	23rd of the month		
24	24th of the month		
2525th of the month			
26	2626th of the month		
27	27th of the month		

Figure 5.9 Setting Up Date Modifiers

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### 5.2.6 Organizational Structure

The central component in SAP ERP HCM is the organizational structure (org structure), which, as we mentioned, shows the relationships that different employees have within the organization and with each other. This is set up in a hierarchy structure, which should reflect the actual situation in the organization. After you understand the functions of the org structure, you will know which relationships can and cannot be set up. You define your org structure within the SAP Easy Access menu: HUMAN RESOURCES • ORGANIZATIONAL MANAGEMENT • ORGANIZA-TIONAL PLAN • ORGANIZATION AND STAFFING.

Figure 5.10 shows an example of an org structure. We saw this information earlier in the chapter, but we revisit it now to remind you what you're working with. After the structure is set up, you need to make sure it is always current because it drives many HR processes.

Staff Assignments (Structure)	ID	Chief
V 🔲 IDES AG	O 00000001	
D IDES New Zealand Company	0 50003514	Managing Director
🕑 🔲 Compañía Modelo CO	O 50003776	Director General
Exec.directory - Germany	O 00000100	Dr. Herbert Braunstein
Executive Board - Italy	O 00000220	
D IDES Nederland	O 50002925	
Executive Board - USA	O 00000300	Mrs Debbie Davis
Chief Executive Officer (US)	S 49999998	
🛱 Mrs Debbie Davis	P 00100135	
Executive Assistant to CEO (US)	S 49999999	
Operations - (US)	O 50000590	Mr. John Williams
👂 🙎 Chief Operating Officer - (US)	S 50000046	
area and the executive Assistant to COO (US)	S 50000047	
🛱 Mrs Barbara Kent	P 00100113	
Operations (US)	O 50028929	
arrow Science President Operations (US)	S 50000050	
🛱 Mr. Jonathan Tyler	P 00100115	
Hospitality (US)	O 50028893	
D Best Restaurant	O 50028894	
Production - (US)	O 50000600	Mr. Timothy Hayes
Director of Production	S 50011133	
D 🔒 Admin. Production	S 50011134	
New York Production Site	O 00003000	Mr. John Martin
and the second s	S 50011147	
🖶 Mrs Victoria Gonzales	P 00100038	
Production Manager	S 50011148	
D 🤮 Assembly Worker	S 50011149	

Figure 5.10 Example of an HR Organizational Structure

# 5.3 Employee Master Record

The basic master data object in the SAP ERP HCM component is the employee master record, which must contain a significant amount of information to handle

the diverse range of its subprocesses. As you'll recall from discussions in earlier chapters, material master records have a number of screens to store information; similarly, employee information is grouped together in *infotypes*, which is just another way of saying "screens" or "tabs." Although there are many infotypes (both standard and customized), our main focus in this chapter is integration with the payroll process, so we focus only on infotypes related to this subject.

#### Note

When you start storing personal employee data, there are strict rules about what certain people can and cannot see. In a support environment, analysts and consultants are usually able to see most master data; however, this doesn't usually apply to personal data.

SAP ERP uses personnel actions to control certain standard HR processes, such as when an employee is hired or leaves. For each action, the system can be advised as to the sequence in which data needs to be accessed or processed to ensure consistency and completeness in processing. In this section, we highlight the key infotypes in the payroll process. We restrict our discussion to generic infotypes related to integration with SAP ERP Financials; consult your local statutory settings to understand whether any local variations are applicable. Infotype configuration is completed in the following area of the IMG: SPRO • PERSONNEL MANAGEMENT • PERSONNEL ADMINISTRATION • CUSTOMIZING PROCEDURES • INFOTYPES.

When you first look at an employee's master record, you will see the screen shown in Figure 5.11. This shows all of the active infotypes (these have been ticked) and is accessed by Transaction PA30.

Maintain HR Master Data				
	Personnel No. 99001	Contract	00099001 Develop	ment Director Bus 🗈 😽 😭
Find by	Name Mr. Azam Arif MBA		Philadelphia	
🗢 🏟 Person	Active Salaried	staff	Philadelphia	
🛗 Collecti	US:Semi-Monthly - US		SSN 242-34-344	4
Search Free se	Core Employee Info. Empl. contr	act data	Gross/net payroll	Net payroll
In rice se	Infotype text	E	Period	
	Actions		Period	
	Organizational Assignment	1	From	То
	Personal Data	1	O Today	O Curr.week
	Addresses	1	O All	O Current month
	Bank Details	1	O From curr.date	O Last week
	Family Member/Dependents		O To Current Date	O Last month
	Challenge		O Current Period	O Current Year
	Internal Medical Service		Choose	
	Maternity Protection/Parental Leave			

Figure 5.11 Maintain Employee Master Record

You can access all employee information from this front page. Select an infotype, and then click the CREATE/CHANGE/DISPLAY icons at the top of the screen.

Next we discuss the most important infotypes in detail. We have selected these infotypes carefully because you need to be aware of all of these infotypes to fully understand the payroll process.

#### 5.3.1 Infotype 0000: Actions

The Actions infotype (Figure 5.12) is the first that we are concerned with because it records the actions an employee is involved in, starting with their hire. The business processes that an employee goes through during his entire career with the company are recorded in this infotype. It also records internal actions, such as performance appraisals and disciplinary actions.

<b>Display Actions</b>				
66				
Pers.No. 99001 Name Mr. Azam Philadelphia Philadelphia Start 01.01.20	Arif MBA SSN 242-34-3444 Active Salaried staff US:Sen	nent Director Bus 🗊 🗣		
Personnel action	-			
Action Type	Hire			
Reason for Action				
Status Customer-specific Employment Active				
Special payment	Standard wage type	1		
Organizational assignment				
Position 40000000 Development Director Busi				
Personnel area 3500 Philadelphia				
Employee group	Employee group 1 Active			
Employee subgroup U4 Salaried staff				
Additional actions				
Start Date Act. Action	Type ActR Re	ason for acti		
01.01.2000 01 Hire				

Figure 5.12 IT0000 - Employee Actions

One common use for the Action infotype is to record when an employee moves departments, which can affect retrospective postings (which we discussed earlier).

#### 5.3.2 Infotype 0001: Organizational Assignment

The Organizational Assignment infotype (Figure 5.13) is key because it drives a number of processes and can also influence transaction code access (if you use structural authorizations) for an employee. In simple terms, it records where an employee exists in the organization. Looking at Figure 5.13, you can see a number of the concepts we have mentioned come into play.

Display Organizational Assignment			
🔄 🗟 🔏   Org Structure			
Pers. No. 99001 Pers.Assgn	00099001 00099001 Development I		
Name Mr. Azam Arif MBA SSN 2	42-34-3444		
Philadelphia Active			
Philadelphia Salaried staff	US:Semi-Monthly - US		
Start 01.01.2000 to 31.12.9999	Chng 01.08.2001 BONIN		
Enterprise structure			
CoCode 3000 IDES US INC	Leg.person		
Pers.area 3500 Philadelphia	Subarea 0001 Philadelphia		
Cost Ctr	Bus. Area		
Personnel structure			
EE group 1 Active	Payr.area US US:Semi-Monthly - US		
EE subgroup U4 Salaried staff	Contract		
Organizational plan	Administrator		
Percentage 100,00	PersAdmin		
Position 4000000 DD BApp	Time		
Development Director E	PayrAdmin		
Job key 4000000 DD BApp			
Development Director E	1		
Exempt			
Org. Unit 40000002 BApp Develop			
Business Applications	i		
Org.key 3500			

Figure 5.13 IT0001 - Organizational Assignment

It you look at the information in the header, you can see the basic information is recorded in relation to where this particular employee sits in the enterprise.

#### 5.3.3 Infotype 0002: Personal Details

This infotype contains the personal data for an employee (Figure 5.14), such as time with the company and the different roles he has had within the company. It also holds basic information about marital status and dependents because this information may be relevant for payroll deductions.

Personal 🛙	Data	
82		
	99001 Pers. Mr. Azam Arif MBA SS delphia Active	Assgn 00099001 Development Director Bu 🗊 📴
_	delphia Salaried 01.05.2010 <u>To</u> 31.1	staff US:Semi-Monthly - US 2.9999
Name		
Title	Mr. 🔳	Name Format
Last name	Arif	Birth name
First name	Azam	Second name
Middle name	Mohammed	Initials
Second title	MBA 🛅	Nickname
Suffix	1	
Name	Mr. Azam Arif MBA	
HR data		
SSN	242343444	Gender
Birth date	12.10.1960	O Female   Male  O TBD
Language	English 🗈	
Nationality	British 🖺	Other nat.
Mar. Status	Marr. 🖺 Since	No. child.

Figure 5.14 IT0002 - Personal Data

If you click the OVERVIEW button on this record, you can see the changes in this employee's history with the company.

#### 5.3.4 Infotype 0006: Address

The Address infotype (Figure 5.15) holds information about an employee's address and contact details. This information may be required to send out correspondence for this person.

Change Addres	sses	
8 🙎		
Pers. No. 9900 Name Mr. Aza		00099001 Development Director Bu 🖹 📴
Philadelphia	Active	
Philadelphia	Salaried staff	US:Semi-Monthly - US
Start 01.01.2	2000 to 31.12.9999	Chng 22.12.2000 JOSWIGT
Address		
Address type	Permanent residence	1
c/o		
Address line 1	342 Houston Avenue	
Address line 2		
City/county	Philadelphia	
State/zip code	Pennsylvania	19118
Country Key	United States	8
Telephone Number		
Communications		
Type Number	Extension	

Figure 5.15 IT0006 - Employee Address

#### 5.3.5 Infotype 0007: Planned Working Time

The Planned Working Time infotype (Figure 5.16) stores information about an employee's normal working hours. This information is relevant for work scheduling (which we don't cover in this chapter) and also for time recording (which we talk about later). Figure 5.16 shows the details contained on this screen.

#### 5.3.6 Infotype 0008: Basic Pay

The main purpose of this infotype is to collect all of the elements that make up this employee's basic pay. These are represented in SAP ERP as wage types and are important configurable objects that we discuss in more detail later in this chapter.

Looking at the example in Figure 5.17, you can see three wage types for this employee: basic pay, bonuses, and premiums. This information helps the Payroll Driver program calculate a person's pay.

Planned Working Time							
🗟 🧟 🛅 Wor	'k schedule						
Pers. No.	99001	F	<sup>o</sup> ers.Assg	n	00099001 Develo	pment Directo	ir Bu 🖺 🖓
Name N	¶r. Azam Ar	if MBA	SSN	242	-34-3444		
Philad	delphia	Activ	е				
Philad	delphia	Sala	ried staff		US:Semi-Mo	nthly - US	
Start 0	91.01.2000	To	31.12.99	99	Chg. 15.12.200	0 BONIN	
Work schedule r	ule						
Work schedule r	rule	NORM	Normal				
Time Mgmt statu	JS	0 - No time	evaluatio	n			1
Working week							
🗌 Part-time em	ployee				Additiona	al time ID	
Working time							
Employment per	rcent	100,00					
Daily working ho	ours	7,50					
Weekly working	hours	37,50					
Monthly working	hrs	162,50					
Annual working	hours	1950,00					
Weekly workday	s	5,00					

Figure 5.16 IT0007 - Planned Working Time

Display Basic Pay			_
Salary amount 🖬 Payments	and deductions		
Pers. No. 99001 Name Mr. Azam Arif MBA		00099001 Development   34-3444	Director Bu 🖺 📴
	ctive alaried staff 31.12.9999	US:Semi-Monthly - L Chng 06.04.200	JS 99 SAPUSER
01.01.2000 10	01.12.0000	onng  00.04.200	
Subtype 0 Basic cont	ract		
Pay scale Reason	c	Capacity Util. Level	100,00
PS type 01 Standard contr	ract V	Vork hours/period	81,25 Semi-monthly
PS Area 01 Philadelphia		lext increase	
PS group GRD01 Level	05 A	nnual salary	156.000,00 USD
Wa Wage Type Long Text	0 Amount	Curr I A Nu	umber/Unit III
1002 Salary	6.5	00,00 USD	0,00
1004 Lead premium	2.5	500,00 USD	0,00
9B0N Total Bonus for MSS	1.5	500,00 USD	0,00

Figure 5.17 IT0008 - Basic Pay

You can find specific information about this person's salary and deductions by clicking the SALARY AMOUNT and PAYMENTS AND DEDUCTIONS buttons at the top of the screen. Figures 5.18 and 5.19 show the details contained on these screens.

r)									
porting period: 01	.01.2000 to	31.12.9999							
PerNo Name			Activit	ty	PTF	PA PS	Group	PL	
Infotyp		Subt	typ			0b	Start	Date	End Date
Reas. W. type	Amount		Curr	D Number		Unit	%	differe	nce
00099001 Mr. Azam Ari	f MBA		Develop	pment Dir	01 (	91 GRI	001	05	
0008 Basic Pay		Θ	Basic	contract			01.01	. 2000 - 3	1.12.999
1002 Salary		6.500.00	USD	0	00			0.0	0
1004 Lead premium		2.500.00			00			0.0	
9BON Total Bonus fo	or MSS	1.500,00	USD		00			0,0	0
4444 T-4-7		10.500,00	USD	0	00			0,0	0
**** Total							01 01	2000 2	1.12.999
0014 Recurring Paymer	nts/Deductions	112	2				01.01	.2000-3	1.12.333

Figure 5.18 Payments and Deductions

🔄 Salary per Period (in USD)	×
Annual salary	156.000,00
Salary/monthly	13.000,00
Semi-monthly salary	6.500,00
Salary/every 14 days	6.000,00
Wage/weekly	3.000,00
Salary/hourly	80,00
Salary/hourly	80,00
××	

Figure 5.19 Salary Amount

### 5.3.7 Infotype 0009: Bank Details

In the BANK DETAILS infotype screen, you see how an employee is to be paid; for example, in Figure 5.20, the employee is being paid by bank transfer. The payment method here is the same payment method defined in SAP ERP Financials. We recommend that you set up payroll-specific payment methods because this allows easy visibility and control over the different types of payment. For more information about this, see Chapter 4, Section 4.9.5.

Bank Details	
8	
Philadelphia	Pers.Assgn 00099001 Development Director Bu () Arif MBA SSN 242-34-3444 Active Active
Philadelphia Start 01.01.200	Salaried staff         US:Semi-Monthly - US           0         to         31.12.9999         Chng         15.12.2000         BONIN
Bank details	
Bank details type	Main bank 🗈
Payee	Mr. Azam Arif MBA
Postal Code/City	19118 Philadelphia
Bank Country	United States 🗈
Bank Key	123123123 Citibank
Bank Account	2323221101 Bank control key 01
Payment method	T Bank transfer
Purpose	
Payment currency	USD

Figure 5.20 IT0009 - Employee Bank Details

### 5.3.8 Infotype 0014: Recurring Payments and Deductions

For every employee, there are a number of possibilities in terms of recurring payments and deductions that need to be subtracted from their salary. These can be for different things, such as union membership or a loan repayment. Figure 5.21 shows an example.

Pers. No.	99001	Pers.Ass	gn 0009900	1 00099001 De	evelopment I 🖺	0-0
Name	Mr. Azam Ar	rif MBA SSN	242-34-3444			_
F	Philadelphia	Active				
F	Philadelphia	Salaried staf	f US:	Semi-Monthly -	US	
Start	01.01.2000	to 31.12.9	999 Chng 06	.04.2009 SAF	USER	
Recurring P Wage Type	ayments/Deductio	ons 122 Car allowand	'e	<u>.</u>		
mage type		oar anowand	.0			
Amount		750,00	USD			
Number/un	nit	0,00				
Assignmen	nt Number					
Reason for	Change					
Payment da	ites /					
Payment m	iodel					
1st paymer	nt period 00	or 1stpa	ment date			
Interval in p	eriods 00	) Interva	I/Unit	Θ		

Figure 5.21 IT0014 - Pay Deduction

Again, clicking on the OVERVIEW button shows all of the deductions that are set up for this employee, as shown in Figure 5.22.

Overview R	ecurring	Payments/Ded	uctions				
Q							
	Pers. No.	99001	Pers.Assgr	0009900	010	0099001 Develo	pment I
Find by	Name	Mr. Azam Arif MBA	SSN	242-34-3444	1		
♥ ♣ Person ♣ Collectin ♣ Search ♣ Free se	Philadelphia     Active       Philadelphia     Salaried staff     US:Semi-Monthly-US       Image: Choose     01.01.2000     to     31.12.9999     STy.						
	Wage type	Wage Type Long Text	From	To	0	Amount	Crcy
	1122	Car allowance	01.01.2000	31.12.9999		750,00	USD

Figure 5.22 Overview of Recurring Payments/Deductions

For each of these deductions, the system allows you to set up limits for how much the deduction could be. These rules can be set up specifically for a group of employees and can vary from group to group.

### 5.3.9 Infotype 0016: Contract Elements

The details of employees contracts are stored in infotype 16. This infotype contains information such as the employee's contract type and any sick pay circumstances. This is also where you define the employee's and employer's notice periods.

### 5.3.10 Infotype 0027: Cost Distribution

An employee's costs may need to be assigned somewhere other than the cost center that is assigned to that employee. In this example, we have an employee who is spending time working on two specific projects. We could use the timesheet function to recharge costs from this employee's home cost center to the projects, but this would require a timesheet to be completed. Instead, this employee's time is simply recharged at a flat rate. We charge 10% and 25% of their costs to the two internal orders, as shown in Figure 5.23.

Cost	Distrib	ution				
68	🔏 🛛 Org	. Management in	fo			
Pers. No.	9!	9001	Pers.Assgn	00099001 E	Developm	nent Director Bu 🖺 🖓
Name	Mr. /	Azam Arif MBA	SSN 24	12-34-3444		
	Philadelph	ia A	ctive			
	Philadelph	ia S	alaried staff	US:Sei	mi-Month	ily - US
Start	01.01	1.2000 To	31.12.9999	Chng 06.04	4.2009	SAPUSER
Distrib.	02	Travel expense	es			
Master co	st center					
Cost d	istribution					
Co(	Cost ctr	Order	WBS element	Name	Pct.	Name of aux. account
3000		100011		R&D: CCMA	10,00	
3000 1	1220	1000000		Motor Pool	25,00	R&D - GRC

Figure 5.23 IT0027 - Cost Distribution for This Employee

The same can be done to recharge costs to WBS or to cost centers directly.

### 5.3.11 Infotypes 0207 and 0209: US-Specific Infotypes

U.S. tax code is different from other countries in that the tax is defined at the state level. For this reason, U.S. payroll systems use infotype 207 to record your resident data and thus which laws are applicable to you. All are subject to federal tax, but it is also necessary to deal with state tax.

Should an employee work in different states, some of their time may be subject to different state taxes. In this scenario, infotype 207 can be used to define allocations. You should also fill in infotype 209 to reflect an employee's unemployment state.

### 5.3.12 Infotype 2010: Employee Remuneration

Some U.S. implementations use this infotype to load up specific payment data for employees who may be working few or odd hours and thus do not fit into the general working of the rest of the organization, for example, ad hoc cleaners or drivers who are paid on a job-by-job basis. Figure 5.24 shows an example of someone who is called in to clean up hazardous waste; because this is done on an ad hoc basis, it's difficult to set up a regular payment scheme.

Employee Remuner	ation Info
🖪 🚨 📋 🛅 Personal wo	rk schedule
Pers. No. 99001 Pers.No. 99001	Pers Assgn 00099001 Development Director Bu 🔄 📴
Philadelphia	Active VVkSchdl NORM
Philadelphia	Salaried staff SSN 242-34-3444
Date 01.01.2009	Chg. 06.04.2009 SAPUSER
Remuneration info	
Wage type	1298 Hazardous Duty Bonus
Number of hours	
Number/unit	
Amount	2.000,00
Currency	USD
Extra pay/valuation	
Pay scale group/level	
Position/work center	
Overtime comp. type	Depends on wage type 📳
Premium	
Premium Indicator	
Tax area record type	
External document number	

Figure 5.24 IT2010 - Employee Remuneration

If this sounds useful in your line of work, you can find more information from a dedicated U.S. payroll resource.

### 5.4 Configuration and Design of Payroll

The payroll process in SAP ERP depends on the configuration of the Payroll components of both SAP ERP HCM and SAP ERP Financials, as well as the setup of the employee master records in the system. In Section 5.1.2, Payroll, we talked about the basic payroll process, central to which is the Payroll Driver. This is basically the program that calculates and eventually posts the payroll results; it is dependent on the rules that we specify in the payroll schema.

In this section, we look at the configuration and design of Payroll, starting in HR and ending up in SAP ERP Financials. The following lists the areas we will cover:

- ► Wage types
- Symbolic accounts
- Account determination
- Vendor/customer account determination
- ▶ Payroll posting to Financial Accounting (FI)
- ► Payroll posting variants

#### 5.4.1 Payroll Driver

SAP ERP provides a single program to do the payroll run for each country, known as the International Payroll Driver. For each country, the country-specific settings (variants) enable the country-specific rules to be used to calculate final pay correctly. Figure 5.25 shows how the country-specific variants are visible in the SAP Easy Access menu.

💬 PPMDT - Manager's Desktop
Personnel Management
D 🗋 Time Management
✓ (Americas)
D 🗋 Argentina
D 🗋 Brazil
D 🗋 Canada
D 🗋 Mexico
V 🖸 USA
PC00_M10_CALC_SIMU - Simulation
PC00_M99_PA03_RELEA - Release payroll
PC00_M10_CALC - Start payroll
PC00_M99_PA03_CHECK - Check result
PC00_M99_PA03_CORR - Corrections
PC00_M99_PA03_END - Exit payroll
PC00_M10_CEDT - Remuneration statement
PC00_M10_HRF - Remuneration statement with HR-Forms
Bank transfer

Figure 5.25 Country-Specific Payroll Menus

If you look at Figure 5.26, you can see that the PAYROLL DRIVER is a specific program for different countries, not just a different variant.

Payroll Driver (USA)	Repository data	
😌 🖻 🖻 🔲 🔲	Transaction	PC00_M10_CALC
	Program	RPCALCU0
Selections from Search helps	Program (screen)	RPCALCU0
Payroll period	Screen number	1000
Payroll area	Program (GUI)	RSSYSTDB
Current period     Other period	GUI status	%_00
Selection Personnel Number	<b>भे</b>	
Payroll area		
Payroll area Payroll Calculation Driver for G	reat Britain	
Payroll Calculation Driver for G	reat Britain Repository data Transaction	PC00_M08_CALC
Payroll Calculation Driver for G	reat Britain Repository data Transaction Program	RPCALCG0
Payroll Calculation Driver for G	reat Britain Repository data Transaction	RPCALCG0 RPCALCG0
Payroll Calculation Driver for G Composition Composition Composit	reat Britain Repository data Transaction Program	RPCALCG0 RPCALCG0 1000
Payroll Calculation Driver for G Selections from Search helps Payroll period Payroll area	reat Britain Repository data Transaction Program Program (screen)	RPCALCG0 RPCALCG0
Payroll Calculation Driver for G Composition Composition Composit	reat Britain Repository data Transaction Program Program (screen) Screen number	RPCALCG0 RPCALCG0 1000
Payroll Calculation Driver for G         Image: Construction of the second se	reat Britain Repository data Transaction Program Program (screen) Screen number Program (GUI)	RPCALCG0 RPCALCG0 1000 RSSYSTDB
Payroll Calculation Driver for G Selections from Search helps Payroll period Payroll area	reat Britain Repository data Transaction Program Program (screen) Screen number Program (GUI)	RPCALCG0 RPCALCG0 1000 RSSYSTDB

Figure 5.26 Country-Specific Payroll Drivers

The Payroll Driver can be run in simulation mode, which is always a good idea because it allows you to see if there are any errors. You can select which records to include in the run; the usual option is to run payroll by payroll area. If you have a specific issue with a selection of employee records, you can run payroll for that selection, as long as they are within the same payroll area. After you run the Payroll Driver, you will see a log produced to explain the results (Figure 5.27). Within the log, you get confirmation of successful processing, as well an indication of errors.

To run payroll, you have to specify the schema that you want to use to calculate the results. We discuss payroll schemas next.

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Payroll Driver (USA)
Selections from Search helps
Payroll period Payroll area US © Current period O Other period
Personnel Number     99001       Payroll area     US
General program control
Reason for payroll Off-cycle payroll
Schema US00
Forced retro.accounting as of
Test run (no update) Payroll log
General data  General period  General program control  General program control  General program control  General program control  General values  Successful personnel numbers  Personnel Numbers Rejected  General values  Personnel Numbers Rejected  Personnel Numbers Rejected  Personnel Numbers Rejected  Personnel values  Statistics
Selected personnel numbers 1 Successful 0 Number of periods 1 Rejected 1 Total number of messages and error messages 1

Figure 5.27 Payroll Results

### 5.4.2 Payroll Schema

In simple terms, a schema is a set of rules that determine how the payroll is calculated. It takes the program through a logical route to calculate results, taking into account the required statutory rules. SAP ERP comes loaded with a number of country-specific payroll schemas, but you will probably need to configure some elements of this to meet local company-specific requirements. Within a schema, you also find subschemas, which deal with the specific functionality and include the detailed rules.

In the previous section, we looked at a number of infotypes, many of which affect the final pay figure. The payroll schema controls how all this information is brought together and the order in which the information is accessed to ensure that the figure you end up with is correct. For example, determining how much tax is to be paid should be made after you've determined the total amount of basic pay, not before.

To see what's in the payroll schema, you can use Transactions PE01 and PE02. A deeper discussion of this topic goes beyond the scope of this book, but if this is important to your line of work, you should review these transactions to understand how payroll schemas are set up.

### 5.4.3 Wage Types

The wage type is where you actually determine the value or rate of an element of pay or deduction. There are wage types for all sorts of things, including basic pay, deductions, and bonuses. Standard SAP ERP systems are supplied with a complete list of standard wage types (contained in the Wage Type Catalogue), but you can also configure your own and therefore replicate any specific requirements you have within your organization. For example, you may have a specific bonus scheme or deduction requirement that is not reflected in the standard SAP ERPsupplied wage types.

Wage types reflect an important configuration step in the automatic account determination for payroll posting to SAP General Ledger. As you will see in the next sections, the combination of wage types and symbolic accounts is used to assign general ledger accounts to payroll postings. For this book, it's only important to understand what a wage type is and what it's used for, so we don't provide detailed explanations of the payroll rules and regulations.

Wage types are set up in different areas of the IMG; the menu paths shown in the following section relate to all countries (United States, Great Britain, etc.). SAP ERP provides specific IMG menu paths for each country, so you can configure your country-specific settings as required.

### Types of Wage Types

There are three types of wage types in the system:

- ▶ Wage types entered directly into an employee's record in an infotype
- ▶ Wage types calculated in the background, as a result of configuration
- ▶ Wage types automatically generated during processing

Some of these are apparent by looking at infotype 0008, Basic Pay, but they can also be found elsewhere on the employee's master record. Deductions and bonuses are also wage types and are found on other infotypes (e.g., 0014, Recurring Payments/ Deductions).

When setting up wage types, the configuration is done in the following area of the IMG: SPRO • PERSONNEL MANAGEMENT • PERSONNEL ADMINISTRATION • CUSTOM-IZING PROCEDURES • INFOTYPES. After you access this area, there are different places for you to actually configure the wage type, depending on its type.

## 5.4.4 Symbolic Accounts

The main purpose of the symbolic account is to define the account assignment category, in other words, to define what SAP ERP Financials account assignment object must be supplied when making a posting. For example, for salary postings, we expect the posting to go to an expense account, and the standard object should be a cost center. In general, expenses require cost objects, and balance sheet postings require profit centers. Symbolic accounts are set up in the following area of the IMG: IMG • PAYROLL • PAYROLL GB • REPORTING FOR POSTING PAYROLL RESULTS TO ACCOUNTING • ACTIVITIES IN THE HR SYSTEM • EMPLOYEE GROUPING/SYMBOLIC ACCOUNT • DEFINE SYMBOLIC ACCOUNTS.

#### Note

It's important to understand the fundamentals of the SAP ERP Financials solution before completing this configuration activity. In general, we would make use of balance sheet codes (requiring a profit center) and expense codes (requiring a cost center), but this is an important integration step in this area of configuration, and you should ensure this configuration conforms to the Financials settings.

Figure 5.28 shows how we set up the account assignment category for each symbolic account. In this scenario, we set up a number of symbolic accounts, one per wage type. You don't have to do this, but as you'll see in the next section, it influ-

ences the account determination. Other options on this screen that you may select include the following:

#### MOMAG

This setting enables account determination according to the employee grouping account determination.

► FIXED MOMAG

This setting is relevant for FM/GM-based (Funds Management/Grants Management) account determination.

► NEGATIVE POSTING indicator

This indicator enables negative postings to be made when making reversal postings. (Note: This should be reviewed in detail before being ticked.)

0761         NT - Workers' Compensation Premiums         C         D         Posting to personal customer accou           0762         YT - Workers' Compensation Premiums         C         DF         Posting to fixed customers           0770         Statutory Holidays         C         E0         expense not relevant for cost account           07BD         Dental Plan Premiums         F         F         Posting to balance sheet account (N           07BE         STD Insurance Premiums         F         FC         Posting to Balance Sheet Account (N           07BR         Registered Retirement Savings Plan Contri         FL         Posting to check RA balance	0755       NB - Workers' Compensation Premiums       C       Image: Compensation Premiums         0756       NS - Workers' Compensation Premiums       C       Image: Compensation Premiums         0757       PE - Workers' Compensation Premiums       C       Image: Compensation Premiums         0758       NF - Workers' Compensation Premiums       C       Image: Compensation Premiums         0759       SK - Workers' Compensation Premiums       C       Posting to expense account         0760       NN - Workers' Compensation Premiums       C       C       Posting to expense account         0761       NT - Workers' Compensation Premiums       C       D       Posting to personal customer acc         0762       YT - Workers' Compensation Premiums       C       D       Posting to fixed customers         0770       Statutory Holidays       C       E0       expense not relevant for cost account         07BD       Dental Plan Premiums       F       F       Posting to Balance Sheet Account         07BE       STD Insurance Premiums       F       F       Posting to Balance Sheet Account         07BR       Registered Retirement Savings Plan Contrif       F       Posting to heak Acc, Evaluate C	Vorkers' Compensation Premiums       C       C       C         Vorkers' Compensation Premiums       C       C       C         Vorkers' Compensation Premiums       C       C       C         Vorkers' Compensation Premiums       C       C       Posting to expense account         Vorkers' Compensation Premiums       C       Posting to expense account(w/o quantity         Vorkers' Compensation Premiums       C       D       Posting to expense account(w/o quantity         Vorkers' Compensation Premiums       C       D       Posting to personal customer accounts         /orkers' Compensation Premiums       C       DF       Posting to fixed customers         ory Holidays       C       E0       expense not relevant for cost accounting         I Plan Premiums       F       F       Posting to Balance Sheet Account (New)         nsurance Premiums       F       Posting to Balance Sheet Account (New)
0756       NS - Workers' Compensation Premiums       C       C       C         0757       PE - Workers' Compensation Premiums       C       C       C         0757       PE - Workers' Compensation Premiums       C       C       Pasting to expense account         0758       NF - Workers' Compensation Premiums       C       Posting to expense account         0759       SK - Workers' Compensation Premiums       C       Posting to expense account         0760       NN - Workers' Compensation Premiums       C       C       Posting to expense account         0761       NT - Workers' Compensation Premiums       C       D       Posting to personal customer account         0762       YT - Workers' Compensation Premiums       C       DF       Posting to fixed customers         0770       Statutory Holidays       C       E0       expense not relevant for cost account         07BD       Dental Plan Premiums       F       F       Posting to Balance Sheet Account (N         07BE       STD Insurance Premiums       F       F       Posting to Balance Sheet Account (N         67BR       Registered Retirement Savings Plan Contri       FL       Posting to check RA balance	0756       NS - Workers' Compensation Premiums       C	Vorkers' Compensation Premiums       C       Image: Compensation Premiums         Vorkers' Compensation Premiums       C       Image: Compensation Premiums         Vorkers' Compensation Premiums       C       Posting to expense account         Vorkers' Compensation Premiums       C       Posting to expense account         Vorkers' Compensation Premiums       C       C       Posting to expense account         Vorkers' Compensation Premiums       C       D       Posting to personal customer accounts         Vorkers' Compensation Premiums       C       D       Posting to fixed customers         ory Holidays       C       F       Posting to balance sheet account         I Plan Premiums       F       F       Posting to balance Sheet Account (New Premiums         nsurance Premiums       F       Posting to Balance Sheet Account (New Premiums       Post to Bal Sheet Acc.
0757       PE - Workers' Compensation Premiums       C       Image: Compensation Premiums         0758       NF - Workers' Compensation Premiums       C       AATName         0759       SK - Workers' Compensation Premiums       C       Posting to expense account         0760       NN - Workers' Compensation Premiums       C       Posting to expense account         0761       NT - Workers' Compensation Premiums       C       D       Posting to personal customer account         0762       YT - Workers' Compensation Premiums       C       DF       Posting to fixed customers         0770       Statutory Holidays       C       E0       expense not relevant for cost account         078D       Dental Plan Premiums       F       F       Posting to Balance Sheet Account (N         078E       STD Insurance Premiums       F       F       Posting to Balance Sheet Account (N         07BR       Registered Retirement Savings Plan Contri       F       Posting to check RA balance	0757       PE - Workers' Compensation Premiums       C       Image: Compensation Premiums         0758       NF - Workers' Compensation Premiums       C       AATName         0759       SK - Workers' Compensation Premiums       C       Posting to expense account         0760       NN - Workers' Compensation Premiums       C       Posting to expense account         0761       NT - Workers' Compensation Premiums       C       D       Posting to personal customer account         0762       YT - Workers' Compensation Premiums       C       DF       Posting to fixed customers         0770       Statutory Holidays       C       E0       expense not relevant for cost account         078B       STD Insurance Premiums       F       F       Posting to balance sheet account         0778R       Registered Retirement Savings Plan Contrr       FL       Posting to balance Acc., Evaluate C	Workers' Compensation Premiums       C       AATName         Vorkers' Compensation Premiums       C       Posting to expense account         Vorkers' Compensation Premiums       C       Posting to expense account         Vorkers' Compensation Premiums       C       Posting to expense account         Vorkers' Compensation Premiums       C       D         I Plan Premiums       F       Posting to balance Sheet Account         I Plan Premiums       F       Posting to Balance Sheet Account (New Count (New Count)         nsurance Premiums       F       Posting Balance Sheet Account (New Count)
0758       NF - Workers' Compensation Premiums       C       AAT       Name         0759       SK - Workers' Compensation Premiums       C       Posting to expense account         0760       NN - Workers' Compensation Premiums       C       C       Posting to expense account         0761       NT - Workers' Compensation Premiums       C       D       Posting to expense account(w/o qua         0762       YT - Workers' Compensation Premiums       C       DF       Posting to fixed customers         0770       Statutory Holidays       C       E0       expense not relevant for cost account         078D       Dental Plan Premiums       F       F       Posting to Balance Sheet Account (N         078E       STD Insurance Premiums       F       F       Posting alance Sheet Account (N         078R       Registered Retirement Savings Plan Contri       F       Posting to check RA balance	9758       NF - Workers' Compensation Premiums       C       AATName         9759       SK - Workers' Compensation Premiums       C       Posting to expense account         9760       NN - Workers' Compensation Premiums       C       C       Posting to expense account         9761       NT - Workers' Compensation Premiums       C       D       Posting to expense account(w/o q         9762       YT - Workers' Compensation Premiums       C       DF       Posting to personal customer account         9770       Statutory Holidays       C       E0       expense not relevant for cost account         978D       Dental Plan Premiums       F       F       Posting to balance sheet account         978E       STD Insurance Premiums       F       FC       Posting to Balance Sheet Accound         978R       Registered Retirement Savings Plan Contrr       FL       Posting to balance Acc., Evaluate C	Vorkers' Compensation Premiums     C     AATName       Vorkers' Compensation Premiums     C     Posting to expense account       Vorkers' Compensation Premiums     C     C     Posting to expense account       Vorkers' Compensation Premiums     C     D     Posting to expense account       Vorkers' Compensation Premiums     C     D     Posting to personal customer accounts       /orkers' Compensation Premiums     C     DF     Posting to fixed customers       ory Holidays     C     E0     expense not relevant for cost accounting       I Plan Premiums     F     Posting to balance sheet account       nsurance Premiums     F     Posting to Balance Sheet Account (New       FE     Post to Bal Sheet Acc.     Cuent Culture C1/CO
9759     SK - Workers' Compensation Premiums     C     Posting to expense account       9760     NN - Workers' Compensation Premiums     C     C     Posting to expense account       9760     NN - Workers' Compensation Premiums     C     CN     Posting to expense account       9761     NT - Workers' Compensation Premiums     C     D     Posting to expense account(w/o qua       9762     YT - Workers' Compensation Premiums     C     DF     Posting to fixed customers       9770     Statutory Holidays     C     E0     expense not relevant for cost account       978D     Dental Plan Premiums     F     F     Posting to balance sheet account (N       978E     STD Insurance Premiums     F     FC     Posting to Balance Sheet Account (N       978R     Registered Retirement Savings Plan Contri     FL     Posting to check RA balance	OFF     Owners' Compensation Premiums     C     Posting to expense account       0759     SK - Workers' Compensation Premiums     C     Posting to expense account       0760     NN - Workers' Compensation Premiums     C     C     Posting to expense account       0761     NT - Workers' Compensation Premiums     C     D     Posting to expense account       0762     YT - Workers' Compensation Premiums     C     DF     Posting to fixed customers       0770     Statutory Holidays     C     E0     expense not relevant for cost account       077B     Dental Plan Premiums     F     F     Posting to balance sheet account       077B     STD Insurance Premiums     F     FC     Posting to Balance Sheet Account       077B     Registered Retirement Savings Plan Contrr     FC     Posting to check RA balance	Vorkers' Compensation Premiums C C Posting to expense account Vorkers' Compensation Premiums C CN Posting to expense account(w/o quantity Vorkers' Compensation Premiums C D Posting to personal customer accounts Vorkers' Compensation Premiums C DF Posting to fixed customers ory Holidays C E0 expense not relevant for cost accounting I Plan Premiums F F Posting to balance sheet account nsurance Premiums F F Posting to Balance Sheet Account (NewO
9760     NN - Workers' Compensation Premiums     C     CN     Posting to expense account(w/o qua       9761     NT - Workers' Compensation Premiums     C     D     Posting to personal customer account       9762     YT - Workers' Compensation Premiums     C     DF     Posting to fixed customers       9770     Statutory Holidays     C     E0     expense not relevant for cost account       977B     Dental Plan Premiums     F     Posting to balance sheet account (N       978E     STD Insurance Premiums     F     FC     Posting to Balance Sheet Account (N       978R     Registered Retirement Savings Plan Contri     FL     Posting to check RA balance	0760         NN - Workers' Compensation Premiums         C         CN         Posting to expense account(w/o q           0761         NT - Workers' Compensation Premiums         C         D         Posting to expense account(w/o q           0762         YT - Workers' Compensation Premiums         C         DF         Posting to fixed customers           0770         Statutory Holidays         C         E0         expense not relevant for cost account           077B         Dental Plan Premiums         F         F         Posting to balance sheet account           077B         STD Insurance Premiums         F         FC         Posting to balance Sheet Account           077B         STD Insurance Premiums         F         FC         Posting to Balance Sheet Account           077B         Registered Retirement Savings Plan Contrr         FE         Post to Bal.Sheet Acc., Evaluate C	Workers' Compensation Premiums         C         CN         Posting to expense account(w/o quantity)           Vorkers' Compensation Premiums         C         D         Posting to personal customer accounts           /orkers' Compensation Premiums         C         DF         Posting to fixed customers           ory Holidays         C         E0         expense not relevant for cost accounting           I Plan Premiums         F         Posting to balance sheet account           nsurance Premiums         F         Post to Balance Sheet Acc. Evaluate C1/C0
OFF         D         Posting to personal customer accound           9761         NT - Workers' Compensation Premiums         C         D         Posting to personal customer accound           9762         YT - Workers' Compensation Premiums         C         DF         Posting to fixed customers           9770         Statutory Holidays         C         E0         expense not relevant for cost accound           978D         Dental Plan Premiums         F         F         Posting to balance sheet account           978E         STD Insurance Premiums         F         FC         Posting to Balance Sheet Account (N           978R         Registered Retirement Savings Plan Contri         FL         Posting to check RA balance	OFF         Posting of Statutory Holidays         D         Posting to personal customer acc           0761         NT - Workers' Compensation Premiums         C         D         Posting to personal customer acc           0762         YT - Workers' Compensation Premiums         C         DF         Posting to fixed customer acc           0770         Statutory Holidays         C         E0         expense not relevant for cost account           078D         Dental Plan Premiums         F         F         Posting to balance sheet account           078E         STD Insurance Premiums         F         FC         Posting to Balance Sheet Account           078R         Registered Retirement Savings Plan Contrr         FL         Posting to bekance Acce, Evaluate C	Vorkers' Compensation Premiums     C     D     Posting to personal customer accounts       Vorkers' Compensation Premiums     C     DF     Posting to fixed customers       vorkers' Compensation Premiums     C     DF     Posting to fixed customers       ory Holidays     C     E0     expense not relevant for cost accounting       I Plan Premiums     F     Posting to balance sheet account       nsurance Premiums     F     FC     Posting to Balance Sheet Account (NewO       FE     Post to Bal.Sheet Acc.     Evaluate C1/CO
OFF         Output         Output <td>OFF         F         F         F         F         F         Posting to fixed customers           077B         Statutory Holidays         C         E0         E0         expense not relevant for cost account           077B         Dental Plan Premiums         F         F         Posting to fixed customers           077B         STD Insurance Premiums         F         FC         Posting to Balance Sheet Account           077B         Registered Retirement Savings Plan Contry         F         FC         Posting to Balance Account</td> <td>Vorker's Compensation Premiums     C     DF     Posting to protocol to the control to the control</td>	OFF         F         F         F         F         F         Posting to fixed customers           077B         Statutory Holidays         C         E0         E0         expense not relevant for cost account           077B         Dental Plan Premiums         F         F         Posting to fixed customers           077B         STD Insurance Premiums         F         FC         Posting to Balance Sheet Account           077B         Registered Retirement Savings Plan Contry         F         FC         Posting to Balance Account	Vorker's Compensation Premiums     C     DF     Posting to protocol to the control
0770         Statutory Holidays         C         E0         expense not relevant for cost account           078D         Dental Plan Premiums         F         F         Posting to balance sheet account (N           078E         STD Insurance Premiums         F         F         Posting to Balance Sheet Account (N           078R         Registered Retirement Savings Plan Contri         F         Posting to balance         Posting to balance Acc., Evaluate C1/C	0770     Statutory Holidays     C     E0     expense not relevant for cost accord       0770     Statutory Holidays     C     E0     expense not relevant for cost accord       0770     Dental Plan Premiums     F     Posting to balance sheet account       078E     STD Insurance Premiums     F     FC     Posting to Balance Sheet Account       078R     Registered Retirement Savings Plan Contri     FL     Posting to balance Acc., Evaluate C	Conversion         C         E0         expense not relevant for cost accounting ory Holidays           ory Holidays         C         E0         expense not relevant for cost accounting Posting to balance sheet account           I Plan Premiums         F         Posting to balance sheet account           nsurance Premiums         F         Posting to Balance Sheet Account (New FE           Post to Bal.Sheet Acc.         Evaluate C1/C0
Of 76         Statutory Holidays         C         F           07BD         Dental Plan Premiums         F         F         Posting to balance sheet account (N           07BE         STD Insurance Premiums         F         F         Posting to Balance Sheet Account (N           07BR         Registered Retirement Savings Plan Contri         F         Post to Bal.Sheet Acc., Evaluate C1/C	Of Point         Statutory Holidays         C         F         Posting to balance sheet account           07BD         Dental Plan Premiums         F         F         Posting to balance sheet account           07BE         STD Insurance Premiums         F         FC         Posting to Balance Sheet Account           07BR         Registered Retirement Savings Plan Contri         FE         Post to Bal.Sheet Acc., Evaluate C	I Plan Premiums F F Posting to balance sheet account nsurance Premiums F F Posting to Balance Sheet Account (New F Posting to Balance Sheet (New F Posting to
P/BD Dental Plan Premiums F     FC Posting to Balance Sheet Account (N     P/BE STD Insurance Premiums F     FE Post to Bal.Sheet Acc., Evaluate C1/C     Post to Bal.Sheet Acc., Evaluate C1/C     FL Posting to Check RA balance	P/BU     Dental Plan Premiums     F	I Plan Premiums F rsurance Premiums F FC Posting to Balance Sheet Account (New FE Post to Bal Sheet Acc. Evaluate C1/C0
B7BE         STD Insurance Premiums         F         FE         Post to Bal.Sheet Acc., Evaluate C1/C           07BR         Registered Retirement Savings Plan Contri         FL         Posting to check RA balance	07BE         STD Insurance Premiums         F         FE         Post to Bal.Sheet Acc., Evaluate C           07BR         Registered Retirement Savings Plan Contri         FL         Posting to check RA balance	nsurance Premiums F F F Post to Bal Sheet Acc. Evaluate C1/C0
07BR Registered Retirement Savings Plan ContriF	07BR Registered Retirement Savings Plan ContriF	FE Post to Bal.Sheet Acc., Evaluate C1/C0
FL Posting to check RA balance	PZPS Health Care Account E FL Posting to check RA balance	tered Retirement Savings Plan Contri-
97BS Health Care Account F FO Posting to bal sheet acc. in O-per on	Realth Cale Account	Care Account
97CA Claims on employees Q K Posting to ballsheet acc. In O-perion	97CA Claims on omployoos 0	s on omployoos

Figure 5.28 Symbolic Account Settings

Now that you've defined the symbolic accounts, you can link the wage type to a symbolic account using the following area of the IMG: IMG • PAYROLL • PAYROLL GB • REPORTING FOR POSTING PAYROLL RESULTS TO ACCOUNTING • ACTIVITIES IN THE HR SYSTEM • MAINTAIN WAGE TYPES • DEFINE POSTING CHARACTERISTICS OF THE WAGE TYPE.

Looking at Figure 5.29, you can see that in this configuration step, you set up posting settings for each wage type. Specifically, you indicate which symbolic account is relevant (in terms of account assignment), and also how the debits and credits are posted. As we said before, you can link multiple wage types to the same symbolic account.

Change View "W	/age Type C	Overvie	ew":	Overview					
😰 🕄 Expand <-> colla	pse New Entries	; D 🖬	Deli	imit 🖪 🖪 🗟	9 3				
Dialog Structure	W	age Type	Wage	Type Long Text	Start Da	ate	End Date	9	
Vage Type Overview		002	Salary		01.01.	1901	31.12.9	999	
fosting a Wage	Type A6	010	Travel	allowance	01.01.	1901	31.12.9	999	
	AG	020	Area w	eighting allowance	01.01.	1901	31.12.9	999	
	AG	30	Rent a	llowance	01.01.	1901	31.12.9	999	
	AG	940	Clothir	ng allowance	01.01.	1901	31.12.9	999	
	AG	950	Lunch	eon vouchers	01.01.	1901	31.12.9	999	
	AG	060	Perfori	mance	01.01.	1901	31.12.9	999	
	AG	970	First ai	id allowance	01.01.	1901	31.12.9	999	
	AG	80	Expen	ses	01.01.	1901	31.12.9	999	
•									
Posting a Wage Type									
No +/- sign	Proc.Type	SymAcctA	ss	Description of SymAc	ctAss	End (	Date	AATyp	Ignore Cost A
1 Positive amc	Normal process	0830		Salaries		31.1	2.9999	С	
Ĩ	1	1							

Figure 5.29 Linking Wage Type to Symbolic Account

The HR team usually completes this configuration activity because you are linking two HR objects together. This configuration shouldn't be done in isolation; be sure to think about the range of general ledger accounts you will eventually want to post to. Figuring this out now will make the next configuration activity easier.

#### Note

The setup of employee grouping specifically in relation to account determination is not the same as the employee groups we discussed at the start of this chapter (Section 5.2.2, Employee Groups and Subgroups).

### 5.4.5 Account Determination

At this point, you need to define the account determination rules at the chart of accounts level. This configuration is consistent with the settings we've already made for the MM-FI account determination, so if you've covered this section, you'll recognize the look of the screens.

ssignm

#### Note

This element of SAP ERP HCM configuration is consistent for every country, so you don't need to worry about country-specific settings here.

Access the following area of the IMG: IMG • PAYROLL • PAYROLL GB • REPORTING FOR POSTING PAYROLL RESULTS TO ACCOUNTING • ACTIVITIES IN THE AC SYSTEM • ASSIGN ACCOUNTS. As you can see in Figure 5.30, there are a number of configuration options that you need to review and understand.

🗢 📑 Reporting for Posting Payroll Results to Accounting
D 🗟 Preparation
D B Activities in the HR System
🗢 🛃 🛛 Activities in the AC System
🗢 🛃 🛛 Assign Accounts
🔜 🕒 Assign Balance Sheet Accounts
🔜 🕒 Assign Expense Accounts
🔜 🕒 Assign Technical Accounts
🕞 🕀 Assign Customer Accounts
📑 🕀 Assign Vendor Accounts
🛃 🕀 Assign Loan Postings for Employees
🛃 🕀 Set Up Fixed Cost Postings
📑 🕒 Set Up Substitute Cost Centers
📑 🕀 Set Up Line Item Text

Figure 5.30 Account Determination

You need to understand some basic principles of where you expect postings to go, in terms of when payroll runs and posts to accounting. Payroll consultants usually concern themselves with running payroll and ensuring that payments reach the employees. Financials consultants, however, are very concerned with ensuring the right accounts are picked up. In Table 5.1, we summarize the key concepts for the posting of payroll to the ledger.

Type of Posting	Comment
Salary expense	In HR terms, the cost of employees is referred to as the <i>salary expense</i> . We expect this to be posted to expense general ledger accounts in the P&L. This is a summary posting by the general ledger account.
Vendors	In some circumstances, the employer needs to make deductions from an employee's salary. We make this association through a wage type link with the vendor number through account determination.

 Table 5.1
 Summary of Key Concepts for Financial Posting of Payroll

Type of Posting	Comment
Expenses	Employees may be eligible to be refunded for any business expenses they incur. The normal route approach here is to configure the SAP Travel Management component, although we do we not cover that component in this book.
Customers	If an employee has taken a loan, or you are making an advanced payment to an employee, this needs to be set up by configuring this relationship (not covered this in this book).
Technical	This setting is needed for when a payroll run (which could have thousands of lines) needs to post into many general ledger documents (which are limited to 999 lines). This is usually a control account through which all control postings go. A single gross pay control account is common here, or it's possible to set up control accounts by company code.

 Table 5.1
 Summary of Key Concepts for Financial Posting of Payroll (Cont.)

Let's first look at the expense accounts configuration because this is a good way to understand the other configuration settings. In Figure 5.31, you can see that, in the same way we defined the MM account determination settings, we have a transaction key against which we assign general ledger accounts. The system needs a symbolic account against which to assign a general ledger account, and, as we have seen already, the symbolic account is linked to the wage type. This is where we make the account assignment.

	Posting Key Rules			Posting Key	
				Debit	40
Chart of Acco	ounts INT Char	t of accounts - internation	nal	Credit	50
Transaction	HRC HR p	iostings, expense accou	nts		
Account ass	ignment			ounts are determi	ned based on
Symbolic ac	count Employee group	Account		bit/Credit	
0120		430000	Em	iployee group	<ul> <li>Image: A start of the start of</li></ul>
0120	1	430000	Syn	nbolic account	$\checkmark$
0121		420000	Ado	dit. modification	
0121	1	420000			
0122		431000			
0122	1	431000			
0123		422000			

Figure 5.31 Assignment of General Ledger Accounts

When setting up expense postings, you expect to see symbolic accounts that enable the coding of salary, overtime, and perhaps expenses to the relevant general ledger accounts. This table might have a number of entries. You can also include employee groups, which we mentioned in our earlier discussion of symbolic accounts, to differentiate the account assignment for each symbolic account.

### 5.4.6 Vendor/Customer Account Determination

As part of the payroll process, there is usually a need to make postings against vendors and, sometimes, customers. Perhaps some of your deductions need to be paid to a specific organization on behalf of the employee; for example, sometimes courts order fines that must come out of an employee's salary. In such a situation (see Figure 5.32), if you set up the court as a vendor in your system, you can link the deduction directly to the vendor account and therefore enable Payroll to generate the deduction postings automatically.

Maintain FI C	onfiguration: Automatic Posting - Accounts
Posting	y Key Rules
Chart of Accounts Transaction	INT Chart of accounts - international HRK HR vendor postings
Account assignment	
Symbolic account	Account
1122	7512

Figure 5.32 Setting Deduction Vendors

### 5.4.7 Full Payroll Posting to Finance

The previous sections showed how the system determines the Financials postings that need to be made. We do physically need to process the posting-to-accounting activity because it is possible to make payments to employees without doing this step. This is to avoid situations where you're unable to pay employees due to a blocked cost center or some other Financials issue; because this isn't really a valid reason to hold back making the payroll payments to employees, the system segregates these two activities.

The volume of transactions in Payroll is a lot of information for posting to the general ledger, so SAP ERP recommends that the transactions be posted at a summary level (see Section 5.4.8, Payroll Posting Variant). Many organizations adopt

this policy because they don't want the payroll information to be posted at the line level into the general ledger, which makes it too easy to get detailed information about a specific employee's pay. Thus, the general ledger generally contains only a summarized posting per general ledger account and cost object, with the detailed analysis of the employees who make up these figures contained in the payroll details.

Now that everything is configured, it's time to demonstrate a payroll run.

Pers. No.	109560	Pers.Assg			Vice Preside	nt of Finance	Ĩ <b>₽₽</b>	
Name	Mr. Charlie Fin	ance SSN	432-22	-2123				
Enterprise stru	cture							
CoCode	3000 IDES US II	чc	Leg.p	person				
Pers.area	3200 Atlanta		Suba	irea	0001 Atla	anta		
Cost Ctr	9515 Fir	nance - Group 1	Bus.	Area	0001 Bu	siness area (	001	
Personnel stru	cture							
EE group	1 Active		Pay	r.area	UM US:1	Monthly - UM		
EE subgroup	U5 Senior staff		Cor	ntract		2		
Salary								
Reason			Cap	acity Util	l. Level	100,00		
PS type	01 Standard co	ontract	Wo	rk hours/	period	173,33 M	onthly	
PS Area	05 Atlanta		Nex	t increas	e			
PS group	EXEC Level	01	Ann	ual salai	ry		250.000,00 US	D
Wa Wage Typ	e Long Text	0 Amount		Cu	urr I A N	Number/Unit	Unit 📶	
1002 Salary	o cong rox	i integrit	20.833			0,00		
Desiment	to and Dadu	tione						
Payment	ts and Dedu	cuons						
Ci).								
Reporting pe	riod: 15.07.2	001 to 31.1	2.9999					
	ame			Activit	iy I	PT PA PS Gr		
Infotyp Reas.			Subt	ур		Ob St	tart Date End Da	ate
W. type		Amount		Curr	D Number	Unit	%difference	
00109560 M	r. Charlie Finan	ce		Vice Pr	resident	01 05 EXEC	01	
0008 Basic	Pay		0	Basic	contract	15	5.07.2001-31.12.	9999
1002 Sa1	ary	20.	833,33	USD	0,	00	0,00	
**** Tot	al	20.	833,33	USD	0,1	00	0,00	
0015 Addit	ional Payments		M101			01	1.01.2002-01.01.3	2002
M101 Mer	it bonus - regul	20.	000,00	USD	0,	00	0,00	

Figure 5.33 Employees Organizational Assignment and Basic Pay Information

Let's start by refreshing our memory and looking at an employee's organizational assignment and basic pay infotype (Figure 5.33). This shows both infotype 0008 and the payments and deductions information for this employee, which you should expect to see when you pay the employee.

After ensuring that all your employee's details are correct for this payroll period, you can run payroll in test mode. When you're satisfied that everything is correct, run the actual payroll, which checks the payroll log to ensure all records have processed correctly (Figure 5.34).

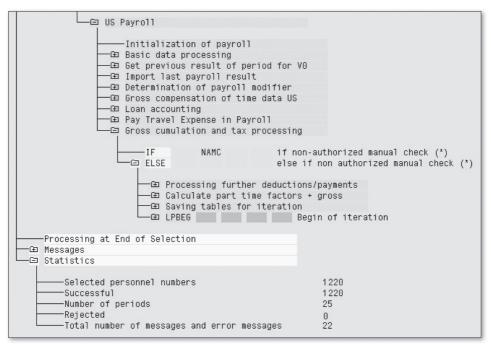


Figure 5.34 Payroll Log

For all payroll runs, you can use Transaction PCP0 to check the current status. Payroll has two purposes: first, to make payments out to employees, and, second, to update the ledger. Looking at Figure 5.35, you can see that the screen is split into two sections presenting the posting of payments to employees and the posting of the ledger entries to SAP General Ledger.

Display posting	g runs A 🗑 隊		7   🖽 🖣			
Typ Name Selected E Run Numb	er Text for Ru	in R	un inform	ation	Sim	Status
PM Posting of Paym 0000000 0000000 0000000 0000000 000000	06 05 04 03 02	P P P P	Area UM/1: Area UM/1: Area UM/1: Area UM/1: Area UM/1: Area UM/1:	2/200 2/200 2/200 2/200 2/200	5 V 5 V 5 V	Deleted No documents created No documents created No documents created No documents created No documents created
PP Payroll posting 00000014' 00000014' 00000014' 00000014' 00000014( 000000014( 0000000000	2 1 0 99 98 98 98 95 95 95 94 93 93 92	Pi Pi Pi Pi Pi Pi Pi Pi Pi	Area UW/38 Area UW/33 Area UW/33 Area UW/33 Area UW/36 Area UW/26 Area UW/26 Area UB/19 Area US/16 Area US/17 Area US/17	/200 /200 /200 /200 /200 /200 /200 /200 /200 /200 /200 /200	5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0	Documents created Documents created Documents created Documents posted Documents posted Documents posted Documents posted Documents posted Documents posted Documents posted Documents posted
	Q <i>y</i> e		97			
	000002063				0000001402	

Figure 5.35 Display Posting Runs (Transaction PCPO)

#### Note

You can pay your employees without updating the ledger because these two actions are usually performed separately.

You can look at your payroll posting run by double-clicking it (Figure 5.36). This view shows the payroll posting document (which is not the same view as the document that you will eventually see in SAP General Ledger). At this level, you see an entry made for each general ledger account and Controlling (CO) account assignment object being paid in this run; you can also see the posting to general ledger expense (salaries codes), taxes, and balance sheet clearing (control) accounts.

Selected         M         S         BusA         Tx         Line         PTyp         Account         Number with Text         C0         Accut A         Debit Amount         Credit Amount         Cre		B	.   A	9	7	8   22	<b>%</b> 🖻		•						
9900         6/L         465000         Payroll taxes         CCtr 4130         1.825,95         USD           9900         6/L         430000         Salaries - base wage         CCtr 4205         12.000,00         USD           9900         6/L         455000         Payroll taxes         CCtr 4205         12.000,00         USD           9900         6/L         455000         Payroll taxes         CCtr 4205         174,00         USD           0001         6/L         455000         Payroll taxes         CCtr 4205         174,00         USD           0001         6/L         450000         Salaries - base wage         CCtr 9510         3.725,25         USD           0001         6/L         455000         Payroll taxes         CCtr 9510         2.84,55         USD           0001         6/L         455000         Payroll taxes         CCtr 9515         3.725,25         USD           0001         6/L         430000         Salaries - base wage         CCtr 9515         3.750,95         USD           0001         6/L         430000         Salaries - base wage         CCtr 9515         31.250,00         USD           0001         6/L         450000 <td>Company Code Document PostingCurrency Reference Doc. Type Run Type Bus. Transaction</td> <td>30 00 USI XX AB PP HRI</td> <td>00 000026 D XXX006 P1</td> <td>)63 )01</td> <td>Docume</td> <td>ent</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Company Code Document PostingCurrency Reference Doc. Type Run Type Bus. Transaction	30 00 USI XX AB PP HRI	00 000026 D XXX006 P1	)63 )01	Docume	ent									
9900         6/L         430000         Salaries - base wage         CCtr 4205         12.000,00         USD           9900         6/L         455000         Payroll taxes         CCtr 4205         174,00         USD           0001         6/L         455000         Payroll taxes         CCtr 4205         174,00         USD           0001         6/L         430000         Salaries - base wage         CCtr 9510         761,44         USD           0001         6/L         430000         Salaries - base wage         CCtr 9510         3.725,25         USD           0001         6/L         4455000         Payroll taxes         CCtr 9515         3.750,95         USD           0001         6/L         430000         Salaries - base wage         CCtr 9515         31.250,00         USD           0001         6/L         445000         Salaries - base wage         CCtr 9515         31.250,00         USD           0001         6/L         465000         Payroll taxes         CCtr 9515         31.250,00         USD           0001         6/L         465000         Payroll taxes         CCtr 9515         32.23,64         USD           0001         6/L         465000	Selected M	S	BusA	Tx	Line	РТур	Account	Number with Text	CO A	cont A	Debit	Amount	Credit Amou	nt )	Crcy
			9900 9900 0001 0001 0001 0001 0001			67L 67L 67L 67L 67L 67L 67L	430000 465000 176410 430000 465000 176410 430000 465000	Salaries - base wage Payroll taxes Benefits (Employer) Salaries - base wage Payroll taxes Benefits (Employer) Salaries - base wage Payroll taxes	CCtr CCtr CCtr CCtr CCtr CCtr CCtr	4205 4205 9510 9510 9510 9515 9515 9515	12 3 31	.000,00 174,00 761,48 .725,25 284,55 .750,95 .250,00 462,87			USD USD USD USD USD USD USD USD USD

Figure 5.36 Payroll Posting Document

#### Note

Earlier, in Figure 5.34, warning messages appeared at the bottom of the posting. Because these messages were only warnings, it was still possible to process the payroll. These messages are shown in Figure 5.37.

```
Messages for Document 0000002063
Do not assign any objects in cost accounting to account 176410 ( Warning Message )
Do not assign any objects in cost accounting to account 176800 ( Warning Message )
Messages for Line Items
You Can Access More Information About Substitutions and Messages
By Clicking the Corresponding Symbol
```

Figure 5.37 Messages Generated from Payroll Run

Because this is a posting per general ledger account and CO object combination, you can see the breakdown of this posting. Double-clicking the amount of \$31,250.00 in Figure 5.36, you can see the breakdown of what makes this amount, as shown in Figure 5.38. This shows that there were two items making up this amount.

Displ	Display revision information for posting document										
🖪 Di	C. Display Summarized       A     F     Set     <										
		1							1		
Sele	Account with Text	G/L	CO Accnt	₩T	Wage Type Long Text	Pers.No.	Debit Amount	Credit Amount	Exp.type	Crcy	
			CCtr 9515		1002 Salary	109560	20.833,33			USD	
*	430000 Salaries 430000 Salaries		CCtr 9515 CCtr 9515		1002 Salary 1002 Salary	109569	10.416,67 31.250,00			USD USD	
* *							31.250,00			USD	

Figure 5.38 Revision Information for Posting Document

Figure 5.38 is a summary report by employee. To see the details below the summary report, double-clicking on a line, which produces Figure 5.39. The first thing you should note here is that the line on the previous screen was per employee. The detail behind each line is quite lengthy; and here you can see a long list of wage types associated with this employee.

Only Poste	d Wage Types 📔	]									
25.08.2009	Employee's Pay For a Period	roll Results	s and Poste	d Amou	unts						
)isplay of	All Wage Types	, Unsummari:	zed								
Pers.No.	Sequence Number	Status Ind	IN:Payroll	Area	IN:Per	riod	IN:PayTyp	IN:ID	IN:Date	FOR:Payroll Ar	
109560	00051	A	UM 09 2		09 200	95				UM	
/101	Total gross	20.833,33		USD			19,27				
Wage Type	Wage Type Long Text		Amount		Crey	y Pos	ted: D	ebit	Posted: Credi		
/101	Intal gross	20 833 33		USD		3	9 27	7 39.27			
/102	401(k) Wages		20.833,33			USD	39,27				
/104	NQP Eligible E	arns	20.833,33			USD					
/109	ER benefit con		1.014,44			USD			9,27	39,2	
/110	Net payments/D		68,60-		USD	D		9,27	39,2		
/114	Base wage for I		20.833,33			USD	39.3		9,27	39,2	
/301	TG Withholding		41.666,66		USD			9,27			
/303	TG EE Social S	ecurity Tax			33,33	USD					
/304	TG ER Social S	ecurity Tax				USD 39,27			9,27	9,27 39,2	
/305	TG EE Medicare	Tax	20.833		33,33	USD		39,27		39,2	
/306	TG ER Medicare	Tax	20.83		33,33	USD		39		39,2	
/310	TG ER Unemploy		41.666,6		66,66	USD 39		39,27 3			
/401	TX Withholding		6.079,29			USD			6.079,		
/405	TX EE Medicare	Tax	302,08			USD			302,		
/406	TX ER Medicare	Tax	302,08			USD		302,08			
/550	Statutory net		14.451,96			USD		302,08			
/559	Payment				33,36	USD				14.383,3	
/560	Amount to be p	aid			33,36	USD				14.383,3	
/5PY	Good Money				33,33	USD				14.383,3	
/500	Tot EE tax				31,37	USD				14.383,3	
/501	Tot ER tax				92,08	USD				14.383,3	

Figure 5.39 Detailed Information for Employee Payroll Posting

Not all of the wage types will post to the ledger for this employee; you should focus on only posted wage types. If you click the ONLY POSTED WAGE TYPES button (as shown in Figure 5.39), the screen shown in Figure 5.40 appears.

Wage Type	Wage Type Long Text	Amount	Crcy	Posted: Debit	Posted: Credit
/401	TX Withholding Tax	6.079,29	USD		6.079,29
/405	TX EE Medicare Tax	302,08	USD		302,08
/406	TX ER Medicare Tax	302,08	USD	302,08	302,08
/559	Payment	14.383,36	USD		14.383,36
2110	Std Medical EE after-tax	36,83-	USD		36,83
2117	Dental EE after-tax	31,77-	USD		31,77
2310	Std Medical Employer	465,42	USD	465,42	465,42
2317	Dental Employer	7,50	USD	7,50	7,50
2410	Std Medical Provider	502,25	USD	502,25	502,25
2417	Dental Provider	39,27	USD	39,27	39,27

Figure 5.40 Posted Wage Types for This Employee Payroll Posting

Let's now revisit Figure 5.35, which shows Transaction PCPO, Display Posting Runs. Recall that it is from this screen that you can double-click a posting run to see the POST TO ACCOUNTING: DOCUMENT OVERVIEW screen. If you select this item, and then select GOTO • ACCOUNTING DOCUMENTS, you'll see the link to the accounting document from this payroll document, as shown in Figure 5.41.

Posting to Accounting: Document overview									
Docume	nt CoCd	Pstng Date	Тур	Run Number	Status				
✓ 00000020	63 3000	30.09.2005	PP	0000001402	Released				
Ľ	🗁 List of Documents in Accounting 🛛 🖂								
C	)ocum	ients in A	ccc	ounting					
D	oc. Numi	b Object type	text	Ld					
0	1000057	37 Accounting	docu	iment					
0	0000301475 Profit center doc.								
0	0200078954 Controlling Document								
Criginal document									

Figure 5.41 Documents in Accounting

The accounting document posted reflects the document we saw previously. If you look at the financial document it produces, you should be able to match line items to the Payroll document shown earlier in Figure 5.36.

## 5.4.8 Payroll Posting Variant

The final configuration activity we need to look at is the payroll posting variant. Although it actually comes into play earlier in the process (when you are running the Payroll Driver), we've deliberately included it here so that you can better understand the configuration.

The posting variant controls the posting to accounting settings, which we need to manage the document that is being posted. In Figure 5.42, the document type, reference information, and the way documents are structured are all controlled by the posting variant. The posting variant configuration path and screen are shown in Figure 5.43.

Display Document: General Ledger View										
다 🕰 🏦 Display Currency 🗉 Entry View 다 Other Ledger										
Data Entry View										
Document Number 100005737		Company Code 3	000	Fiscal Year	2005	5				
Document Date 07.11.2005		Posting Date 30.09.2005		Period	9					
Reference XXXXX00001		Cross-CC no.								
Currency	US	D	Texts exist		Ledger Group		ן ר			
Ledger OL /	Ledger OL /									
Doc.	10	0005737	FiscalYear 2	005	Period	9				
C Itm L.iter		S Account	Description		Amount	Curr.	Тx	Cost Center	Order	Profit Center
3000 56 0000	56 40	465000	Payroll taxes		83,24	USD		2200		3402
57 0000	57 40	430000	Salaries - base wage		16.980,04	USD		2220		3402
58 0000	58 40	434000	Holiday and vacation		5.070,75	USD		2220		3402
59 0000	59 40	465000	Payroll taxes		319,74	USD		2220		3402
60 0000	60 40	430000	Salaries - base wage		7.000,00	USD		3120		3100
61 0000	61 40	465000	Payroll taxes		535,50	USD		3120		3100
62 0000	62 40	430000	Salaries - base wage		20.700,00	USD		3140		3500
63 0000	63 40	465000	Payroll taxes		1.583,55	USD		3140		3500
64 0000	64 40	176410	Benefits (Employer)		1.041,68	USD		3200		3402
65 0000	65 40	430000	Salaries - base wage		10.416,67	USD		3200		3402
66 0000	66 40	465000	Payroll taxes		588,45	USD		3200		3402

Figure 5.42 Accounting Document from Payroll

There are several important settings made in this configuration activity, but we focus on the following fields for the purposes of this discussion:

DOCUMENT TYPE

This defines the Finance document type that is posted to.

► PREFIX FOR REFERENCE

If you look back at Figure 5.42, you can see that the REFERENCE field has a prefix in it. This is defined in this field.

🗢 📴 Reporting for Posting Payroll Results to Accounting							
D 📴 Preparation							
🗢 🗟 Activities in the HR System							
Employee Grouping/Symbolic Accounts							
🖻 📴 🛛 Maintain Wage Types							
📑 🚇 Maintain Posting Date for Payroll Periods							
📑 🕒 Create Posting Variants							
🛃 🕀 Authorizations							
	_						
Parameters for document creation							
Document Type PA							
Language for line item text EN							
Text key							
Prefix for reference XXXXX							
Post to co.code clearing accounts							
Document split							
Doc. split Document Split Based on Company Code	٦						
Additional document split acc.to no.of lines							
Separate summarized items							
Fixed cost posting to summarized items							
Doc.Type Customers							
Creditors Doc. Type							
DocTyp MEA							

Figure 5.43 Payroll Posting Variant Configuration

DOC. SPLIT

The document splitting settings here are not the SAP General Ledger document splitting settings. When you post payroll, there can be thousands of lines; here, you specify whether these documents are to be split up by company code or by account assignment object. This decision needs to be made based on practicality and business requirements. If you are posting to hundreds of account assignment objects, then this could generate hundreds of documents.

### ► SEPARATE SUMMARIZED ITEMS

As we mentioned earlier, the payroll generates separate documents for the expense and balance sheet items. The setting to request that is made here.

# 5.5 Summary

This chapter explained the integration of SAP ERP HCM with SAP ERP Financials. We did not cover every element of SAP ERP HCM but instead focused specifically on the configuration and design of the two key integration areas: Organizational Management and Payroll. This is a very interesting area because more and more organizations are implementing SAP Payroll and SAP ERP HCM. In the next chapter, we look at the complex subject of integrating Asset Accounting, Investment Management, and Project Systems.

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