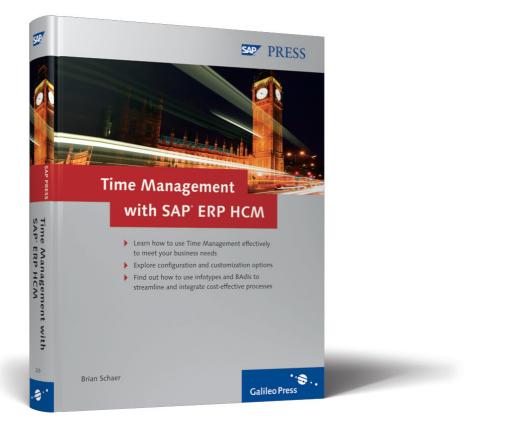
Brian Schaer

# Time Management with SAP<sup>®</sup> ERP HCM





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Because Time Management can involve other areas of business outside of Human Resources (HR), it's important to have a software tool that can work with the business processes in a variety of areas. In this chapter, we'll discuss the integration points between the SAP ERP HCM Time Management functionality and other SAP components.

# 3 Overview of Integrating Time Management with Other Components

During your blueprinting sessions, you most likely had meetings with other teams to decide how data was going to flow through the system. You decided which attendances and absences would be used, what they would be called, and the types of data that should be associated with each attendance and absence. Perhaps, during one of your sessions, a request was made that the system must allow for particular attendance types to track specific pieces of information related to the other components, such as a cost center or an order number. How is SAP software equipped to handle such a requirement?

The Time Management Implementation Guide (IMG) has a section called Integrating Time Management with Other SAP Applications. This section of customization enables the Time Management infotype data the ability to enter other componentrelated data that can be tracked. After it passes through payroll, all time-related data is sent to the Finance and Controlling components. Usually, the time entered flows through an employee's normal cost centers and other finance and controlling component structures.

But what would happen if an employee works in a different department for the day? Should the cost associated with those hours be sent to their normal work location, or should the new location incur the cost for the one day the employee worked there. You might want to book those hours against a different cost center. In this example, the system would need to allow you the flexibility to change the cost-related information for just the eight hours of attendance entered.

You also have the ability to dictate that the cost of the eight attendance hours entered should be allocated to a different cost center than the rest of the employee's normal earnings. The basic premise is to provide you the ability to alter types of time-related data in those situations that fall outside of the norm. The system is delivered with most of the settings you will ever need. They are rarely used on an everyday basis and you really should not have to make any changes to the standard configuration to support integration with other SAP software components.

The Time Management functionality can be integrated with two basic categories of components:

- External Components SAP considers these to be components outside of the SAP system, such as a time-keeping solution provided by another vendor.
- ► **Internal Components** SAP considers these the integration points between the various components provided by SAP.

Let's move on to discuss both in more detail.

#### 3.1 External Components

In general, external components include the following items:

- ► A third-party time collection system transferring clock-time-related data to Infotype 2011 Time Events.
- A third-party time collection subsystem transferring time-related data to the Cross-Application Time Sheet (CATS).

Even though they aren't technically part of this section or configuration, time entry does arrive from external systems and resides in the same tables as CATS. Once it has arrived, it can be considered internal for the purposes of transferring data to other SAP components.

Now let's look at internal components. We'll discuss the integration points from CATS, however, the main configuration considered within this section of the IMG relates to allowing particular absences and attendances to hold other components data that can be sent through payroll.

## 3.2 Internal Components

The internal components that we refer to, and which are truly the basis for this chapter, generally include the following processing procedures.

- CATS to the HCM component. You can transfer time data directly to the HR components.
- CATS to the Finance and Controlling component. You can transfer time data to the Finance and Controlling components.
- CATS to the Plant Maintenance/Customer Relationship Management (CRM) component. You can transfer time data to the Plant Maintenance and CRM component.
- CATS to the Project System component. You can transfer time data to the Project System component.
- Transferring Time Confirmations from the Logistics component including Plant Maintenance. Time-related data can be pulled via confirmations from logistics to the Attendance infotype.
- Updating various data elements for infotype records that are directly maintained on the infotypes. These are basic updates, such as a temporary cost center change for particular time codes.

The first four bullet points relate to transferring time data from CATS directly to the other components. The fifth bullet point refers to the logistics components pushing time-related data to the HR component. The final bullet point is in reference to the majority of the configurations within this section and that allow the entry of other components' data directly on the applicable time-related infotypes. The items in Figure 3.1 are the delivered integration points between CATS and the various components. The time sheet automatically pulls in each component's data so that they are available for dropdown selection when associated with an attendance or absence record.

Figure 3.1 shows an overview of the various integration points between SAP Time components and other SAP components.

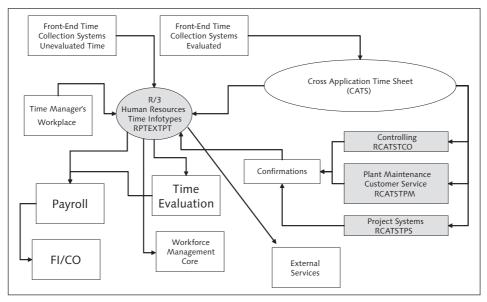


Figure 3.1 Integration to Other SAP Applications

Once you know which components you want to integrate with, you need to ensure the system is set up to accommodate your requirements. This involves a number of steps, which we review in the next section. The configuration for integrating to other SAP applications can be found in the IMG under menu path TIME MANAGE-MENT • INTEGRATING TIME MANAGEMENT WITH OTHER SAP APPLICATIONS.

Now we'll learn how the various internal components can be set up in the IMG.

#### 3.3 Configuration with Internal Components

Let's explore the various configuration settings required to set up the system so that data can flow from one component to another. We'll start by discussing logistics confirmation data.

#### 3.3.1 Retrieving Logistics Confirmation Data

Within the Plant Data Collection (PDC) component of logistics, you can schedule confirmations to be transferred to the Time Management component as attendances. This data normally comes from the SAP Plant Maintenance component, Customer Service component, or the Project Systems component. In order to use this functionality, you need to establish the integration configuration within the plant data collection section of the IMG. If you were to select that particular node under plant data collection, the IMG would take you to program RPWI1100.

SAP delivers a program that is the main integration point between logistics confirmations and the creation of HR infotype records. Program RPWI1100 reads the interface file and generates the session to create the Time Management infotypes.

Figure 3.2 shows program RPWI1100 and the various fields that you can update. After you select which confirmations you would like to process, you can then define whether the confirmations should post as time tickets or attendances. You can then enter which attendance or absence type the confirmation should create. When the program is run, the infotype records will be created automatically.

Integration with Logistic	cs: Read Interface File and Gei	nerate Sessior
⊕ <b>€ I</b>		
Selection of confirmations		
Order type	to	₽\$
Order Number	to	\$
Confirmation number	to	\$
Confirmation counter	to	Image: A start of the start
Sender cost center	to	4 4 4 4 4 4 4 4
Posting date	to	4
Group number	to	भ भ भ
Personnel Number	to	\$
		_
Personnel area	to	\$
Employee subgroup	to	\$
Company Code	to	\$\begin{pmatrix} \Phi & Phi & Phi & Phi & \Phi & \Phi & \Phi & \Phi & \Phi & \Phi & Phi & \Phi & Phi & Phi & \Phi & Phi & \Phi & Phi & Phi & Phi & \Phi & Phi & \Phi & Phi & Phi & Phi & \Phi & Phi & Phi & Phi & \Phi & Phi & Phi & Phi & Phi & Phi & \Phi & Phi & Phi & Phi & Phi & Phi & \Phi & Phi & P
Master cost center	to	\$
Confirmations type		
Repeat run	On 🔗 Off	
New confirmations		
Confirmations with errors		
Commations with endrs		

Figure 3.2 Delivered Report to Pull Logistics Confirmation to HR

The next section of configuration discusses setting up the system so that various components can determine which employees are available.

#### 3.3.2 Specify Information on Availability Functionality

Within the Logistics component, there is a subcomponent called Project Systems. This is where you can define particular projects, assign employees, cost-related information, and other tracking information for that particular project.

In order for the Project System's component to determine employee availability, you need to establish which attendance and/or absence codes that are linked to an employee will actually help the project system determine their availability. For each attendance and absence type, the Availability field allows you to choose one of three options that will drive the availability functionality. Figure 3.3 shows the screen and field for availability. This functionality not only integrates with project systems, but also with functions within Time Management, such as shift planning, training, and event management. The following setting options are available:

- ▶ Blank Not Available
- ▶ 1 Available
- ▶ 9 Irrelevant

These codes are utilized by a delivered Business Application Programming Interface (BAPI) called BAPI\_TIMEAVAILSCHEDULE\_BUILD. This BAPI serves as the integration point between the components so that they can communicate. The programming within the BAPI pulls the codes 1 for available and blank for not available. This BAPI utilizes the codes to determine which employees are available. The code "9 Irrelevant," will not be picked up by the BAPI because it is not programmed to do so. Figure 3.3 shows the integration points for absences and attendances.

Change Vie	w "Absence	e: General S	ettings"	: Details	0
12 D E 10	5 B 🛃 Deli	mit			
PS grouping	50			Periods	
AVA type text	0100 Vacation			Start	End
				> 01/01/1	990 12/31/
Absence: General	Settings				
Att./absence ind.	A		Screen nu	umber	2001
Availability			Time cstr	class	2
Absence grpg	2		Att./abser	ice class	
Check end date	9				

Figure 3.3 Absence- and Attendance-type Integration Points

# 3.4 Infotype Integration

Accounting- and logistics-related information can be linked to particular infotypes so that, during time entry, a user can assign particular values that would pass to accounting or logistics. An example of this might be a cost center override for particular hours worked on a particular day. In order to allow the user the ability to enter this data, you need to ensure that the particular infotypes have been set up to allow for this integration. Infotypes are covered in detail in Chapter 4. This particular customization for integration is merely a checkbox that allows additional costing information to be associated with the infotype record. The following infotypes are available for customization:

- Infotype 0014 Recurring Payments and Deductions Utilized for payroll processing
- ▶ Infotype 0015 Additional Payments Utilized for payroll processing
- ► Infotype 2001 Absences —Utilized for Time Management processing
- ▶ Infoytpe 2002 Attendances Utilized for Time Management processing
- ► Infotype 2003 Substitutions Utilized for Time Management processing

- ▶ Infotype 2004 Availability Utilized for Time Management processing
- ▶ Infotype 2005 Overtime Utilized for Time Management processing
- Infotype 2010 Employee Remuneration Information Utilized for payroll processing
- ▶ Infotype 2011 Time Events Utilized for Time Management processing

Depending on your overall time solution and which infotypes you choose to utilize to store time-related information, this configuration allows some flexibility because the various infotypes that can be configured cover all time-related infotypes and a few, such as Infotype 0014, Infotype 0015, and Infotype 2010, that are used for payroll. Figure 3.4 shows the integration checkbox configuration.

Change View "Infotype with Acct./Logictics Data": Overview									
"% lo E	vob B B B								
I									
Infotype	Infotype text	Accounting/logistics data							
0014	Recurring Payments/Deductions	✓							
0015	Additional Payments								
2001	Absences								
2002	Attendances								
2003	Substitutions	×							
2004	Availability	×							
2005	Overtime	×							
2010	Employee Remuneration Info	×							
2011	Time Events								

Figure 3.4 Infotype Integration Points

As you can see in Figure 3.4, all of the infotypes are delivered with the integration turned on. If you decide you don't want to allow integration for a particular infotype, you can deselect the checkbox.

The next section discusses setting the system up to enable cost assignment specifications.

#### 3.4.1 Cost Assignment Specifications

The cost assignment specification allows you to determine which of the infotypes you will allow additional costing information to be associated with. The checkboxes shown in Figure 3.5 represent the various functionalities of the infotypes for accounting and logistics specifications. By deselecting the checkboxes, the functionalities become grayed out on the infotype screen. Figure 3.5 shows Infotype 2002 Attendances. You should notice the Cost assignment button. If you were to deselect the checkbox in Figure 3.5 under Cost assignment, then this button would remain on the screen, however, a user would not be able to select it.

Infotype	Infotype text	Pers.cal.	Import peri	Import peri	ScrNo	Remuneration spec.	Cost assignment	Act. allocation	Ext. services
2001	Absences	1	01	01	4000	~	<b>v</b>		
2002	Attendances	1	01	01	4050	~	~	~	<ul> <li>Image: A start of the start of</li></ul>
2003	Substitutions		01	01	4100	~	~		
2004	Availability		01	01	4150	~	~		
2005	Overtime		01	01	4200	~	~		
2006	Absence Quotas		01	01	4250				
2007	Attendance Quotas		01	01	4300				
2010	Employee Remunerati		01	01	4450		~	<ul> <li>Image: A start of the start of</li></ul>	
2011	Time Events				4500	~	~		
2012	Time Transfer Specific				4550				
2013	Quota Corrections				4600				
2052	Weekly Entry w/Activity				7150				

Figure 3.5 shows the cost assignment specification configuration.

Figure 3.5 Cost Assignment Specifications

As you can see in Figure 3.5, there are multiple columns of checkboxes. You can specify the following functionality per infotype:

- Remuneration Specifications
- Cost Assignments
- Activity Allocations
- External Services

As with cost assignment, you can also deactivate particular buttons on the screen by infotype. This provides you some flexibility if you are trying to restrict what infotype can be entered on which infotype.

After you have set up the cost assignments for the various infotypes, the next item of configuration is to determine which objects are permitted. By objects, we mean the particular fields that are available for input, which are illustrated in Figure 3.6.

Within the function module RP\_TIME\_COBL\_002, you can establish which fields are eligible for entry for the cost assignment specifications. This functionality works in two parts.

- Part 1 Establish which fields you want to display for each particular infotype. You can find a complete list by looking at the structure COBL (via Transaction code SE11) by utilizing the data-type radio button. Figure 3.6 shows the function module RP\_TIME\_COBL\_002. Within that function module you will see a list of fields. Those fields translate into what the user would see if they were maintaining cost-related information on the infotype. Figure 3.6 also shows the actual fields that would display on the infotype. By using this configuration, you can add or remove the fields from the screen the user would see. You really shouldn't have to change this configuration, however, if you need to add or remove fields, this is how it would be done.
- Part 2 After you define which fields you would like the user to maintain, you can now assign those fields so they populate on the screen. To do this, you utilize a feature. You can identify the variable key if you have various versions of screen fields that you would like to display. Feature DOKNT (via Transaction code PEO3) is a feature that calls the previous parts configuration. The variable key is called in the feature based on the decisions that have been set up within the feature. The feature for the United States is set to blank. Notice in Figure 3.6 that the fields listed in the variable name have a blank listed in the variable key to the left.

creen Modification for	Account Assignment Blo	ock		Function Mod	Jle	Feature
Variable key	Variable name	Text on variable names		RP_POPUP_AU	FNR_VORNR_UVORN	
	COBL - AUFNR	Order		RP_TIME_003		
	COBL - BUKRS	Company Code		RPTIME_COB	L_001	DOKNT
	COBL - GSBER	Business Area		RP_TIME_COB	L_002	DOKNT
1	COBL-KOSTL	Cost Center				
1	COBL-KSTRG	Cost Object			4	
	COBL-NPLNR	Network	Edit	Feature DOKN	T: Decision Tree	
	COBL-PS_PSP_PNR	WBS Element	60 1	Error text		
			Commar 200010 2000220 / 2000230 /	Variable key	F C Operations D HOLGA aDOKNT= , D PERSK	"NOLGA? "PERSONENKREIS?
Variable key Variable name	COBL-KOSTL	Cost Center	Line 1 900010 900020 / 900030 /	/ariable key	D MOLGA &DOKNT=	
Variable name		Cost Center	Line 000010 000030 000030 CostAssignment D	variable key	D MOLGA &DOKNT=	
Variable name Field attributes		Cost Center	Line 800010 900020 900030 Cost Assignment Account Assignment	variable key	D MOLGA &DOKNT=	
Variable name Field attributes Reqd entry	0 Remited St	Cost Center	Line 000010 000020 000030 Cost Assignment D Account Assignment Business Area	variable key	D MOLGA &DOKNT=	
Variable name Field attributes Reqd entry Input field	0 1 Required St		Line 800010 900020 900030 Cost Assignment Account Assignment	variable key	D HOLGA &DOKNT= , D PERSK	
Variable name Field attributes Reqd entry Input field Output field	0 1 1 0 Se	hort Descript.	Line 906010 906020 906030 CostAssignment D Account Assignment Business Area Cost Center	variable key	D MOLGA 400KNT= , D PERSK Order	
Variable name Field attributes Reqd entry Input field	0 1 1 0 8	hort Descript.	Line Line 0.00010 000010 000030 000030 COSLASSIgnment Er Account Assignment Business Area Cost Cester VBB Element	variable key	D MOLGA 400KNT - , D PERSK Order Network	"PERSONENKREIS"

Figure 3.6 Screen Configuration Set Up for Cost Assignment

58

This setup is how you can map particular fields to display on the infotype screens. Let's apply this to a practical example.

#### Example

You have two different companies within your organization. For company code 0001, you want to only show the cost center and company code fields. For company code 0002, you want to use the standard SAP screen. The first step would be to define the fields. Just as in Figure 3.6, you would set up the company code and cost center fields, however, under the variable key of the table, you would associate a particular code. We will use 1234. So, in the table for the function modules, you have the variable key set to blank with the standard fields set up that company code 0002 will use, and you also have variable key 1234 with both company code and cost center assigned.

You then proceed to the feature DOKNT and make a decision off of company code. If the company code in the feature is 0001, then you would set up the feature for that line item to read &DOKNT=1234. Company code 0002, which uses the standard SAP screen, would show &DOKNT=. This way each company code would have a different screen when maintaining cost assignment information. Figure 3.6 shows the various configuration screens.

In the next section, we will discuss the configuration for activity allocation specifications.

#### 3.4.2 Activity Allocation Specifications

The activity allocation specifications follow the same configuration as the cost assignment specifications and utilize the same tables and feature. Figure 3.7 shows the configuration table where you link infotypes to account assignments.

Infotype	Infotype text	Pers.cal.	Import peri	Import peri	ScrNo	Remuneration spec.	Cost assignment	Act. allocation	Ext. services
2001	Absences	1	01	01	4000	<ul><li>✓</li></ul>			
2002	Attendances	1	01	01	4050	✓	<ul> <li>Image: A start of the start of</li></ul>	<b>v</b>	~
2003	Substitutions		01	01	4100	✓	✓		
2004	Availability		01	01	4150	✓			
2005	Overtime		01	01	4200	~	<b>v</b>		
2006	Absence Quotas		01	01	4250				
2007	Attendance Quotas		01	01	4300				
2010	Employee Remunerati		01	01	4450		✓	<b>v</b>	
2011	Time Events				4500	✓	<ul> <li>Image: A start of the start of</li></ul>		
2012	Time Transfer Specific				4550				
2013	Quota Corrections				4600				
2052	Weekly Entry w/Activity				7150				

Figure 3.7 Activity Allocation Infotype Integration Checkbox

The next section, similar to that of cost assignment, discusses how to set up the fields that you would like to make eligible for entry. Figure 3.8 shows the configuration setup.

The fields utilize the same configurations that were available for cost assignment, but also include fields that reside on structure PSREF. You can view the structure via Transaction code SE11. You should select the data type option and select the structure PSREF. There you will see a list of available fields.

Variable key	Variable name	Text on variable names	Function Module		_	Feature	
	COBL - AUFNR	Order	RP_POPUP_AUFNR_1	VORNR U	VORN	4	
	COBL - BUKRS	Company Code	RP_TIME_003	_			
	COBL - GSBER	Business Area	RP_TIME_COBL_00	1		DOKNT	
	COBL - KOSTL	Cost Center	RP_TIME_COBL_00:			DOKNT -	
1	PSREF-LSTAR	Activity Type					
	PSREF - SBUKR	Company Code					
	PSREF - SGSBR	Business Area	Line Variable key	F	C	Operations	
	PSREF-SKOST	Cost Center	000010		D	MOLGA	-
	PSREF-SKUST					nocon	
	POREF-ORUOT		000020 **			&DOKNT= ,	
	PSKEF-5KUSI		000020 ** 000030 01 000840 01 01			AD OVALT	
_	Paker-akuai		000020 ** 000030 01 000040 01 01			&DOKNT= , PERSK	
Variable key	Paker-akusi		000020 ** 000030 01 000840 01 01 Cr Cost Allocation Defaults Account Assignment			&DOKNT= , PERSK	-
Variable key Variable nam		Cost Center	000020 ** 000030 01 000040 01 01 Cost Allocation Defaults Account Assignment Business Area			&DOKNT= , PERSK &DOKNT=OE_01,	-
			000020 ** 000030 01 000840 01 01 Cr Cost Allocation Defaults Account Assignment	)		&DOKNT= , PERSK &DOKNT=0E_01 , Order	-
	e COBL-KOSTL		000020 ** 000030 01 000040 01 01 Cost Allocation Defaults Account Assignment Business Area	)		&DOKNT= , PERSK &DOKNT=OE_01,	030
Variable nam	e COBL-KOSTL		Cost Allocation Defaults  Account Assignment Business Area Cost Center	)		&DOKNT= , PERSK &DOKNT=0E_01 , Order	030
Variable nam Field attribut Reqd entry	e COBL-KOSTL	Cost Center	Cost Allocation Defaults     Account Assignment     Business Area     Cost Center     Sender		D	&DOKNT= , PERSK &DOKNT=0E_01 , Order Company Code	030
Variable nam Field attribut Regd entry	e COBL-KOSTL es 0 Required Short Descript.	Cost Center	Cost Allocation Defaults Account Assignment Business Area Cost Center Sender Cost center Cost center	Sen	D	&DOKNT= , PERSK &DOKNT=0E_01 , Order Company Code	031
Variable nam Field attribut Reqd entry Input field	e COBL-KOSTL es 0 Required Short Descript. Copy value from	Cost Center	Cost Allocation Defaults     Account Assignment     Business Area     Cost Center     Sender	Sen	D	&DOKNT= , PERSK &DOKNT=0E_01 , Order Company Code	030

Figure 3.8 Configuration for Activity Allocation

Program RPTPDOCO can be used to transfer additional data for activity allocation to accounting and those entries tied to Wage types that are processed through payroll and then posted to accounting. Figure 3.9 shows the report selection screen.

Transf	er Addit	ional Data	for Activi	ty Alloc	atior	n to Accounting
Ð 🖪						
Status info	rmation /					
User nar	ne		bschaer			
Status	New	Incorrect				
000	✓ 0	• 0		Posting do	cumen	ts
000	0	• 0	2	Additional 1	ime da	ta
Selection o	onditions fo	or additional time (	data			
Personn	el number				to	
Valid fror	m date				to	
Infotype					to	
Status	/					
⊖ Nev	W					
⊖ Witł	n errors					
Nev	v and with e	rrors				
Restricti	ions for inco	rrect records				
Lastre	etrieved by					
Lastre	etrieved on				to	
Lastre	etrieved at		00:00:00		to	00:00:00
) Dther data					_	
Posting	/		09/22/20	08		
	fer personn	el number				
Detail						

Figure 3.9 Report RPTPDOCO

The following section discusses the configuration of external services. This external service should not be confused with bolt-on software to the SAP system, such as a third-party time-keeping system.

## 3.5 Recording External Services

External services functionality utilizes the Materials Management (MM) component to check the time data entered and account for the time against what is expected per the setup in the MM component. The Time infotypes store the MM external services-related information and are processed through Time Evaluation. SAP delivers Time Evaluation schema TM02 for such processing. Time Management schemas TM00 and TM04 are discussed in detail in Chapters 8 and 9. Schema TM02 is a different variation of these two schemas with the main difference being that schema TM02 includes the function MMSRV, which provides the time data back to the external services component. This way, the evaluated time in Time Evaluation can be compared against the values the MM component stored.

Let's use an example to illustrate the point. Say you decide to use an external employee, such as a subcontractor, to conduct a security analysis of your office location. In order to begin the work, you have signed the contracts and entered a purchasing document in the MM component. As part of that purchase document, you filled in particular items that generate a purchase order. When your subcontractor fills in their time in the time sheet, they fill in the purchase order number with each hour worked. When Time Evaluation finishes processing, the function MMSRV will export the total hours worked on a Wage type that can be validated within the MM component and used as a basis of payment to the subcontractor.

Let's have a look at Figure 3.10, which shows where this purchasing document is attached to the time entered. In this figure you see the external services integration point to HR infotypes. In this example, we will utilize Infotype 2002 — Attendances. As you can see, the External Services button is shown on the infotype screen. This is very similar to activity allocations and cost assignments functionality previously discussed. Continuing our example, the time-related data is entered into the system. The dropdown menus for the purchasing information are obtained from the MM component. The record is saved and ready for Time Evaluation.

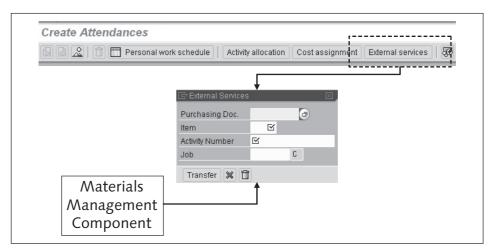


Figure 3.10 Integration Points of External Services to Particular Infotypes

Now that you have seen the various integration points, let's have a look at how you might further change the look and feel of a particular screen. The next section discusses user interfaces, which are the screens an employee would see when entering or maintaining data.

#### 3.5.1 User Interfaces Configuration

The user interfaces section allows you to customize the "List Entry" selections of the time infotypes. Like most infotypes, you can customize which fields are required, optional, output, or hidden. Using the previous example, by updating the external services information for Infotype 2002, let's say you want the job number field to be a required field. The job is the last field on the user interface. By utilizing the functionality to alter these screens, you can make the fields required. Figure 3.11 shows how you can set up a screen field to be required, display-only field, hidden, etc.

Standard screen       4050       Feature         Milemative screen       4056       Feature         Scrn control       Feature       Feature         scrn control       Std       RF       OF         Outp Hide Init       Feature       Feature       Feature         Scrn control       Std       RF       OF       Outp Hide Init         Std PREF-EBELN       Purchasing Document Number       O       O       Feature         Std PREF-EBELN       Purchasing Docume       O       O       Funchasing Doc.       C         Std PREF-STELL       Job       O       O       O       Funchasing Doc.       C         Harmonic Activity Number       O       O       O       O       Funchasing Doc.       C         Std PREF-STELL       Job       O       O       O       O       Funchasing Doc.       C         Std PREF-STELL       Job       O       O       O       O       O       Funchasing Doc.       C         Harmonic Activity Number       O       O       O       O       O       O       Funchasing Doc.       C         Std PREF-STELL       Job       O       O       O       O       O	lodule Pool	MP200000	Variable ke	∋у	03									
Scm control         rp Field name         Field text         Std         RF         OF         Outp         Hide Init         Total rest         Std         RF         OF         Outp         Hide Init         Total rest         Std         RF         OF         OUtp         Hide Init         Total rest         Total rest         State rest         PEF-STELL         Job         O         At RP50M-BEGDA         State of selection period         State VEX BUTTO	tandard screen	4050	Feature											
Stm control         arp Field name       Field text       Std       RF       OF       Outp Hide Init       F         31 PREF-EBELN       Purchasing Document Number       Image: Control on the state of	Iternative screen	4056	Feature											
Image: split processing decimal state of the sector of	lext screen													
Try Field name       Field text       Std       RF       OF       Outp       Hide Init       T         29       1554T - ATEX1       Text for Attendance/Absence Type       Image: Control of Contro of Contro of Contro of Control of Control of Contro of Control o														
29       T554T - ATEXT       Text for Attendance/Absence Type <ul> <li>O</li> <lio< li=""> <li>O<td>Scm control</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></li></lio<></ul>	Scm control													
31       PREF - EBEL M       Purchasing Document Number <ul> <li>O</li> <lio< li=""> <li>O</li> <li>O</li></lio<></ul>	rp Field name	Field text		Std	RF	OF	Outp	Hide	Init	E				
32       PREF-EBELP       Item Number of Purchasing Docume <ul> <li>O</li> <lio< li=""> <li>O</li> <li>O</li></lio<></ul>	29 T554T-ATEXT	Text for Attendance/Ab	sence Type	0	0	0				Ŀ				
12         PREF - LSELP         Item Number of Purchasing Docume         Item Number         Item Numb	31 PREF-EBELN	Purchasing Documen	t Number	0	0	0	0	0		Ŀ		Data mart O an	+	
34         PREF-STELL         Job         Image: Constraint of the state	32 PREF-EBELP	Item Number of Purch	asing Docume	0	0	0	0	0				zitemai serv	ices	
1 PF50M-BEG0A     Start of selection period     Image: Constraint of sele	33 PREF-LSTNR	Activity Number		۲	0	0	0	0			Pu	rchasing Do	с.	c c
42         RP50M-ENDDA         End of selection period         Image: Constraint of selection period         Image: C	34 PREF-STELL	Job		0	0	0	0	0			Ite	n		
43 NEXT WEEK BUTTO	11 RP50M-BEGDA	Start of selection perio	d	0	0	0	0	0			Act	ivity Number	Ľ	
	12 RP50M-ENDDA	End of selection perio	Ч	0	0	0	0	0			Jol	0		C
Transfor ¥ 🛱	3 NEXT_WEEK_BUTTO			0	0	0	0	0	0					
											1	'ransfer 🛛 🕱	Î	
	reate Attendan													

Figure 3.11 External Services User Interface Screens

You can see the various fields in Figure 3.11. In our example, if you elected to change the job number field to required, you would just change the radio button next to the job number field from STD to RF.

Now let's move on to discuss the use of customer enhancements.

#### 3.5.2 Customer Enhancements

Enhancements allow you to insert custom coding into the system to update particular fields or validate what has been entered. By doing so, you can speed up the time it takes to enter data and also ensure the correct data is entered.

The enhancements available for integration to other components include the following:

- ▶ PTIM2001 Time recording Default values for activity allocation
- ▶ PTIM2002 Time recording Default values for cost assignment
- ▶ PTIM2003 Time recording Default values for external services
- ▶ PTIM2004 Time recording Check activity allocation
- PTIM2005 Weekly screen for time recording Default attendance and absence types
- ▶ PTIM2006 Weekly screen for time recording Complete check

Now that we have covered customer enhancements, it's time to see a very simple table that is set up to help enable integration with external applications.

#### 3.5.3 External Application for Integration with Personnel Time Management

This basic customization allows you to define the specific external applications that will integrate with Time Management. You need to establish a name for each external application. Figure 3.12 shows an example of the delivered external application codes. If you have a couple of different third-party time collection systems, then create a name for each system so they can be identified.

Change	View "External Applicati	on": Overview
🦅 New En	tries 🗈 🛃 🕼 🖪 🖪	
Ext.appl.	Text	
AINFT	Infotype (dynamic action)	
BPO	Business Process Outsourcing	
CATS	Time Sheet	
SWW	Staff Works for Windows	
TAW	Time & Attendance for Windows	
WFP	Shift Planning	

Figure 3.12 External Application Integration Points

The final section of configuration discusses setting the system up for what is called the Workforce Management Core.

#### 3.5.4 Workforce Management Core Integration

Workforce Management Core is an application used in the retail industry for managing employee time data. In order to interface with the application, the Workforce Management Core integration configuration allows you to map time-related infotypes and subtypes to time specification types created in Workforce Management. You can also link the period work schedules into the infotype field and the daily work schedule into the subtype field so that working and break times can also be transferred to the Workforce Management component. Figure 3.13 shows the configuration table.

Ν	lew E	Intrie	es: Overv	iew of Added	Entries
8	2 🛃		B		
	Infotyp	e Assig	nment Time D	escription Type	
	ІТуре	Subt	TimeDesc	Time Spec 📆	
_					

Figure 3.13 Workforce Management Integration Point

This concludes the configuration of the IMG for integrating Time Management with other SAP software components.

## 3.6 Summary

In this chapter, we covered the Time Management integration points with other SAP software components through the configuration steps of the IMG. You learned how you can customize the various infotype screens to allow users to enter the additional data related to the infotype record. This data is obtained from other SAP software components. The next chapter is an overview of all of the various infotypes related to the Time Management component.

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