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This sample chapter discusses the workings of the program responsible for point-to-point replication between Employee Central and Employee Central Payroll: RP_HRSFEC_PTP_EE_REPLICATION. It covers the information requested from the Employee Central Payroll System and what information is flagged as replicable material by the Employee Central system. It also covers how to be specific about the scope of replication, how to set up connectivity, how to launch replication from both systems, and to how investigate missing configuration once the setup is ready.



"Master Data Integration"



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Chapter 7

Master Data Integration

Making employee data available is a key first step to determine pay for the workforce. Earnings, deduction, security, and operations all depend on this data to be timely and accurate. However, to avoid keying in this data manually—in the spirit of efficiency and elimination of redundant operational effort—we want this data to come directly from the human resources (HR) system.

In the previous chapter, you learned about the various types of integrations possible with Employee Central Payroll. Now, we'll examine the specific interface with Employee Central, an important discussion. In this chapter and the next, you'll learn everything you need to be proficient in connecting your Employee Central Payroll system to your Employee Central environment. The replication process is administered by a configurable web service commonly known as a *point-to-point replication*. This service is at the center of the exchange between the Employee Central Payroll and Employee Central systems, as shown in Figure 7.1.

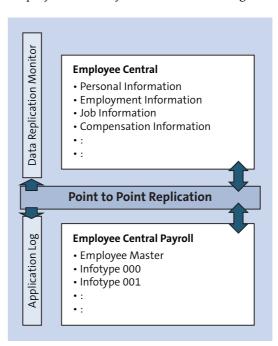


Figure 7.1 HR and Payroll Information Exchange

This entire chapter is devoted to discussing the workings of a single program responsible for this replication: RP HRSFEC PTP EE REPLICATION.

Two aspects drive the actual process of replication:

- What is requested from the Employee Central Payroll system
- What is flagged as replicable material by the Employee Central system

We'll discuss various aspects of these two operations, including how to control them, in the rest of the chapter. We'll discuss how to be specific about the scope of replication, how to set up connectivity, how to launch replication from both systems, and to how investigate missing configuration once the setup is ready.

7.1 Infotype Filtering

Infotype filtering is the step where you'll determine what is required by the Employee Central Payroll system. This task is not trivial. You must carefully review all the fields and field groups that may be required to drive payroll computation. At an infotype level, a global set is available, and local infotypes required by specific country payrolls can be added easily.

Once the list is finalized, configure the list in the Employee Central Payroll system by following the menu path Personnel Management • Integration Settings for SuccessFactors Employee Central Payroll • Infotype Filter • Filter Infotypes. Infotypes will be available for selection for each country, as shown in Figure 7.2. Our example shows the infotypes available for country grouping 06 (France), but other infotypes are available to you. If you need to add other infotypes, click on New Entries; choose the country grouping, infotype, and subtype; and then save.

Note that, if you leave this configuration blank, no infotype filtering occurs at all. However, if you add infotypes for countries, only those infotypes for those countries will be considered for replication. SAP recommends that the system is populated with all countries in scope.

Through this setting, you can record your decisions on all infotypes that must be replicated, country by country. You only need to set up the countries for which you'll run payroll. If your company operates in a country where payroll is outsourced, that country doesn't need be included in the infotype filter; the employee master data required by the payroll outsourcer of that country should derive from the Employee Central system.

We'll discuss these infotypes in a lot more detail in the next chapter.

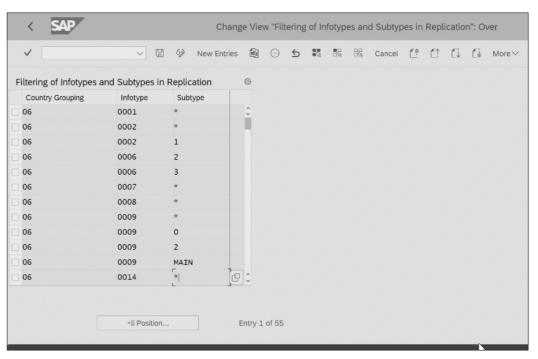


Figure 7.2 Infotype Filtering

7.2 Defining Customer-Specific Activities

The basic task of configuring replication involves several activities that will require planning, especially for dealing with values that are different for each customer based on country, industry, or locality.

Defining these activities involves four categories of tasks:

- Assigning code values from Employee Central to Employee Central Payroll
- Dealing with organizational elements
- Designing and mapping wage types
- Turning on extensibility

You can configure all these details in Transaction SPRO by following the menu path Personnel Management • Integration Settings for SuccessFactors Employee Central Payroll. However, before you can perform any of these tasks, you must set up the query by selecting from the available list. The following queries (portlets) can be used in the query:

- accompanying dependent
- address information

- alternative cost distribution
- compensation information
- paycompensation_non_recurring
- paycompensation recurring
- deduction non recurring
- deduction recurring
- dependent information
- email information
- employment information
- global assignment information
- ItDeclaration
- job information
- job relation
- national id card
- payment information
- person
- personal documents information
- personal information
- person relation
- phone information

7.2.1 Assigning Code Values

Settings enable the mapping of code values, field by field, for the standard SAP fields that are always required for running payroll.

To begin the process of assigning code values, bring up Customizing in Transaction SPRO and follow the menu path Personnel Management • Integration Settings for SuccessFactors Employee Central Payroll • Assignment of Code Values • For Point-to-Point Replication • Display Code Value Mapping as Delivered by SAP. The default code value mapping delivered by SAP, shown in Figure 7.3, will be displayed.

In the next step, you'll specify the following properties for these fields/portlets:

- Whether they are country specific by selecting the **Country** checkbox
- The mapping mode, in the **Mode** column
- The dates that they are effective, by maintaining the **Start Date** and **End Date** columns

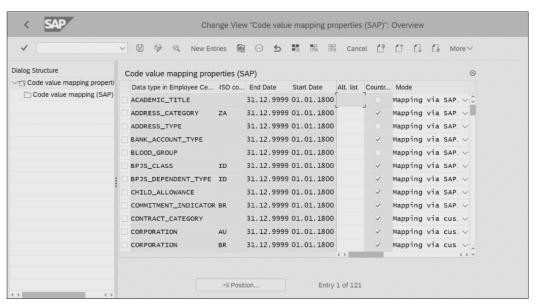


Figure 7.3 Standard Code Mapping

To maintain these properties for code value mapping, follow the menu path Personnel Management • Integration Settings for SuccessFactors Employee Central Payroll • Assignment of Code Values for Point-to-Point Replication • Maintain Properties for Code Value Mapping. These properties are revealed, as shown in Figure 7.4.

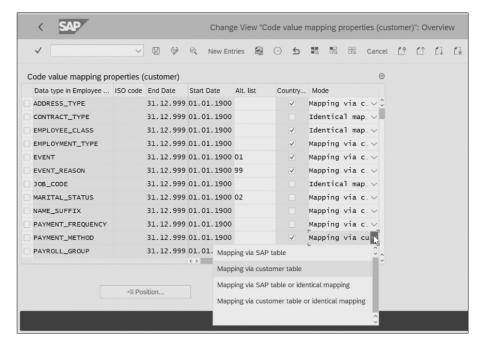


Figure 7.4 Properties of the Mapping

Let's focus on the **Mode** column. When you map code values, five methods are available to choose from:

- 1. Identical mapping (same as provided by Employee Central)
- 2. Mapping via an SAP table (provided in table T77SFEC CVMAPS)
- 3. Mapping via a customer table (provided in table T77SFEC CVMAPC)
- 4. Mapping via an SAP table or identical mapping. If the value is available in a standard table, use that value; otherwise, keep the same value as available in Employee Central.
- Mapping via a customer table or identical mapping. If the value is available in a customer table, use that value; otherwise, keep the same value as available in Employee Central.

For choices 3 and 5, you'll need to map the values for your organization. In Customizing, follow the menu path Personnel Management • Integration Settings for Success-Factors Employee Central Payroll • Assignment of Code Values for Point-to-Point Replication • Maintain Code Value Mapping. This task can also be performed by maintaining table T77SFEC_CVMAPC through Transaction SM3O, as shown in Figure 7.5.

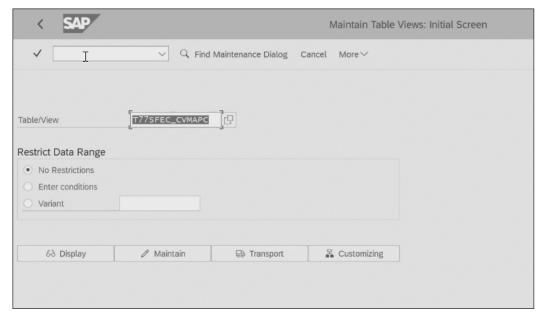


Figure 7.5 Transaction SM30

When you're finished, click on the **Maintain** button to see the code value map, as shown in Figure 7.6.

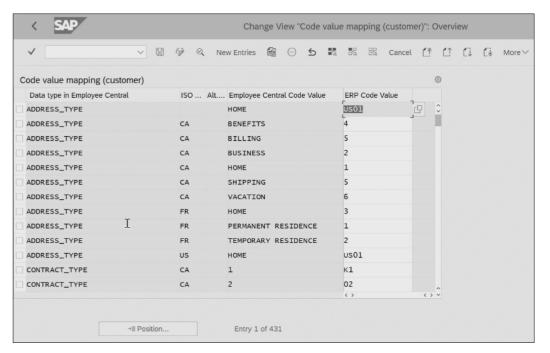


Figure 7.6 Customer Code Value Mapping

An additional step for country-specific items is required: The ISO code for that country must be selected. Follow these steps:

- 1. Click on New Entries.
- 2. Add the **Employee Central** field in the **Data Type in Employee Central** field. In our example, this field is **address_type**.
- 3. Select the ISO code for the country from the ISO dropdown list.
- 4. Enter the appropriate code from the Employee Central Payroll system in the ERP Code Value field.
- 5. Save your settings.

Two more data groups require special handling for code value assignment:

- Dates
- National IDs

To map dates, follow the menu path Personnel Management • Integration Settings for SuccessFactors Employee Central Payroll • Assignment of Code Values • For Point-to-Point Replication • Maintain Date Type Mapping. You'll map Employee Central date code values to Employee Central Payroll date code values, as shown in Figure 7.7 by following these steps:

- 1. Click on **New Entries**.
- 2. Select the country grouping in the **CGrpg** field.

- 3. Select the date segment and date field name from the corresponding dropdown fields.
- 4. Enter the Employee Central Payroll date type field in infotype 0041 in the **DT** (date type) field. These date types would have already been set up according to business requirements. Date types can be set up by following the menu path **Personnel Management Personnel Administration Contractual and Corporate Agreement Evaluation Basis Date Specifications.**
- 5. Save your settings.

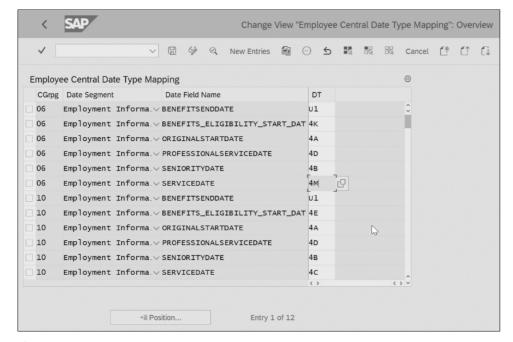


Figure 7.7 Maintaining a Date Mapping

For national IDs, first follow the menu path Personnel Management • Integration Settings for SuccessFactors Employee Central Payroll • Assignment of Code Values for Point-to-Point Replication • Maintain Countries for IT0185 Replication. Then, enable the replication of infotype 0185 for the specific countries that you want to implement. Start by clicking on New Entries, as shown in Figure 7.8.



Figure 7.8 Infotype 0185 Countries

In the popup window that appears, enter the required values, as shown in Figure 7.9. Select the country from the **CGrpg** field and save.

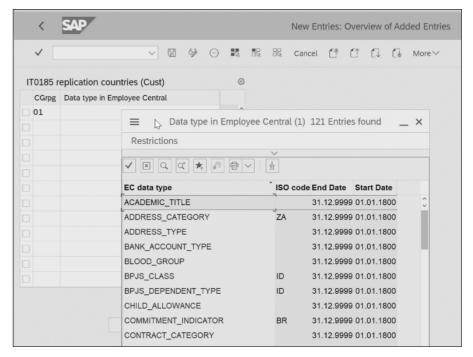


Figure 7.9 Infotype 0185 Replication Countries

Next, follow the menu path Personnel Management • Integration Settings for Success-Factors Employee Central Payroll • Assignment of Code Values for Point-to-Point Replication • Maintain Date for Replicating Personal ID from National ID Portlet.

On this screen, you'll define the start date of the infotype O185 record, as shown in Figure 7.10, by first clicking on **New Entries**.

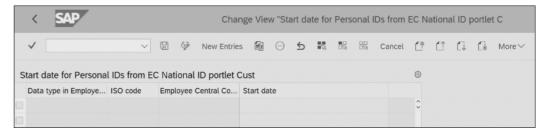


Figure 7.10 Start Date for Infotype 0185

Now, enter the values required, as shown in Figure 7.11, by following these steps:

- 1. Choose the type of data the **Data Type in Employee Central** field.
- 2. Choose the ISO code for the country you're configuring in the ISO Code field.

- 3. Choose the Employee Central code in the **Employee Central Code** field.
- 4. Select either Hire Date or System Date in the Start date column. Since this date is the date for the national ID, its validity before today may not be relevant. In this case, use the System Date option. However, if using this type of national ID is a criterion for hire, then choose Hire Date.
- 5. Save these settings.

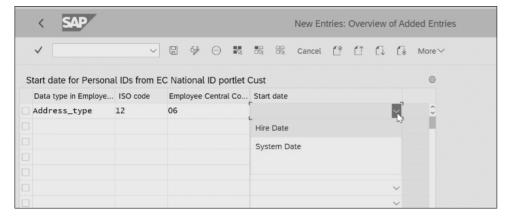


Figure 7.11 Start Date of Fields for a Country

Some countries have certain special methods for infotype 0185, as shown in Table 7.1.

Country	Method for Enabling Infotype 0185	Method for Setting Start Date of Infotype 0185
Saudi Arabia	Default is enabled. Use SAP table HRSFEC_D_IT0185S to change.	Hire date is configured as the start date by default. Use SAP table T77SFEC_DATEMAPS to change.
Hong Kong	Default is enabled. Use SAP table HRSFEC_D_IT0185S to change.	Hire date is configured as the start date by default. Use SAP table T77SFEC_DATEMAPS to change.
Thailand	Default is enabled. Use SAP table HRSFEC_D_IT0185S to change.	No default. Use SAP table T77SFEC_DATEMAPC to set the start date.
China	Default is enabled. Use SAP table HRSFEC_D_IT0185S to change.	Hire date is configured as the start date by default. Use SAP table T77SFEC_DATEMAPS to change.
United Arab Emirates	Default is enabled. Use SAP table HRSFEC_D_IT0185S to change.	Hire date is configured as the start date by default. Use SAP table T77SFEC_DATEMAPS to change.

Table 7.1 Special Methods for Infotype 0185

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Country	Method for Enabling Infotype 0185	Method for Setting Start Date of Infotype 0185
Egypt	Default is enabled. Use SAP table HRSFEC_D_IT0185S to change.	Hire date is configured as the start date by default. Use SAP table T77SFEC_DATEMAPS to change.
India	Default is enabled. Use SAP table HRSFEC_D_IT0185S to change.	No default. Use SAP table T77SFEC_DATEMAPC to set the start date.
Oman	Default is enabled. Use SAP table HRSFEC_D_IT0185S to change.	Hire date is configured as the start date by default. Use SAP table T77SFEC_DATEMAPS to change.
Other countries	Default is disabled. Use SAP table HRSFEC_D_IT0185C to change.	No default. Use SAP table T77SFEC_DATEMAPC to set the start date.

Table 7.1 Special Methods for Infotype 0185 (Cont.)

7.2.2 Dealing with Organizational Elements

In terms of organizational elements, three elements must be configured:

- Cost center
- Company code
- Place of work

We'll look at each element in the following sections.

Cost Center

To configure a cost center, you first must assign external keys to internal keys in Customizing by following the menu path Personnel Management • Integration Settings for SuccessFactors Employee Central Payroll • Assign External Cost Center Keys to Internal Cost Center Keys.

To map external key values to internal key values, as shown in Figure 7.12, follow these steps:

- 1. Click New Entries.
- 2. Enter the Employee Central cost center in the Cost Center ID field.
- 3. Enter the company code in the Company Code field.
- 4. Enter the Employee Central Payroll cost center in the Cost Center field.
- 5. Save these settings.

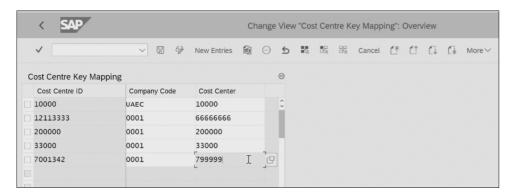


Figure 7.12 Cost Center Mapping

Note that Employee Central automatically sends external keys if they are exactly 14 characters or 10 or less characters. If the key is 14 characters long, this key is a combination of 4 digits of the controlling area and 10 digits of the cost center. These keys do not need any assignment. If the external key is between 11 and 13 characters, the first few characters are used to search for a controlling area in Employee Central. If a match exists, the remaining characters are considered as passthrough cost centers and are transmitted to Employee Central Payroll as they appear.

Company Code

To configure a company code, you first must assign external keys to internal keys in Customizing by following the menu path Personnel Management • Integration Settings for SuccessFactors Employee Central Payroll • Assign External Company Code Keys to Internal Company Code Keys • Value Mapping.

To map external key values to internal key values, as shown in Figure 7.13, follow these steps:

- 1. Click New Entries.
- 2. Enter the Employee Central company ID in the Company ID field.
- 3. Enter the Employee Central Payroll company code in the Company Code field.
- 4. Save these settings.



Figure 7.13 Company Code Mapping

Place of Work

To configure a place of work, you first must assign external keys to internal keys in Customizing by following the menu path Personnel Management • Integration Settings for SuccessFactors Employee Central Payroll • Assign External Place of Work Keys to Internal Place of Work Keys.

To map external key values to internal key values, as shown in Figure 7.14, follow these steps:

- 1. Click New Entries.
- 2. Enter the Employee Central field for the work location in the **Permanent Establishment ID** field.
- 3. Enter the personnel area from Employee Central Payroll in the Personnel Area field.
- 4. Enter the personnel subarea from Employee Central Payroll in the **Personnel Subarea** field.
- 5. Save these settings.

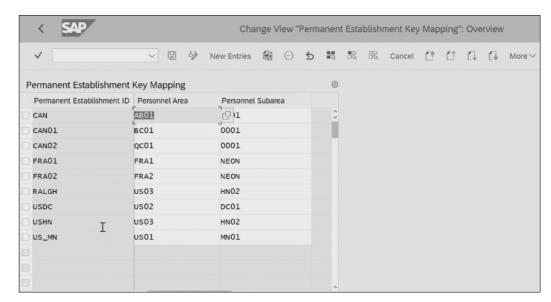


Figure 7.14 Place of Work Mapping

7.2.3 Wage Types

Wage types are required for replication in cases where a value represents an earning. Earnings are typically entered in Employee Central or transferred to Employee Central from SAP SuccessFactors Recruiting when an employee is hired. Deductions are not entered into Employee Central as a general rule—they are entered directly into the Employee Central Payroll system. The name for a wage type in Employee Central is pay component.

The following infotypes deal with earnings (wage types):

- Infotype 0008 (Rate of Pay)
- Infotype 0014 (Recurring Earnings)
- Infotype 0015 (One-Time Earnings On Cycle)
- Infotype 0267 (One-Time Earnings Off Cycle)

Let's examine wage type assignment with all four of these infotypes and then move on to assigning currencies and checking for accuracy.

Assigning Wage Types for Infotypes 0014 and 0008

For this infotype, you must define the wage type and country in Customizing by following the menu path Personnel Management • Integration Settings for SuccessFactors Employee Central Payroll • Wage Type Processing • Assign Wage Types to Infotypes.

To map wage types, as shown in Figure 7.15, follow these steps:

- 1. Click New Entries.
- 2. Enter the country grouping in the **Country Grouping** field.
- 3. Enter the wage type from Employee Central Payroll in the Wage Type field.
- 4. Enter the infotype from Employee Central Payroll in the Info Type field.
- 5. Save these settings.

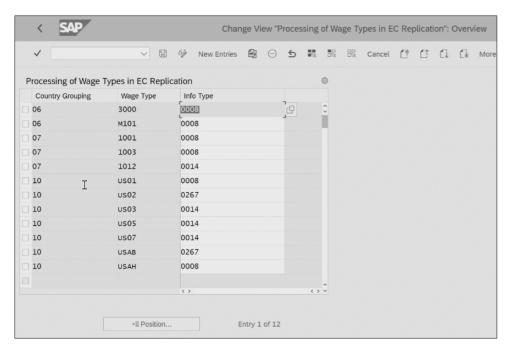


Figure 7.15 Mapping Wage Types

Assigning Wage Types for Infotypes 0015 and 0267

For this infotype, you must define the wage type and country in Customizing by following the menu path Personnel Management • Integration Settings for SuccessFactors Employee Central Payroll • Wage Type Processing • Assign Non-Recurring Payment Wage Types to Infotypes.

To map these wage types, as shown in Figure 7.16, follow these steps:

- 1. Click **New Entries**.
- 2. Enter the country grouping in the **Country Grouping** field.
- 3. Enter the wage type from Employee Central Payroll in the Wage Type field.
- 4. Enter the infotype from Employee Central Payroll in the **Infotype** field.
- 5. Save these settings.

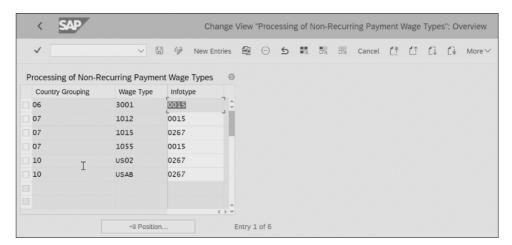


Figure 7.16 Non-Recurring Payment Wage Types

Assigning Currencies

Currencies are provided as standard in all SAP systems. But sometimes in payroll systems (not just Employee Central Payroll!), the number of decimal places required is higher than what is provided as standard. For example, in the US, the standard currency holds 2 decimal places (100 cents = \$1). However, you may need to store values with a third or fourth decimal place to accurately record someone's rate of pay. Quite often, the rate of pay is fixed for a week, month, or year, which requires conversion to derive an hourly rate. For example, the hourly rate for a person earning \$100,000 USD per year is approximately \$48.077 USD per hour based on a 52-week year and 40 hours of work per week.

To store this data, a custom currency may need to be used, since the standard currency USD only stores two decimal places. You can set a custom currency by following the menu path SAP NetWeaver • General Settings • Currencies • Check Currency Codes. On this screen, you'll see all the standard available currencies, as shown in Figure 7.17.

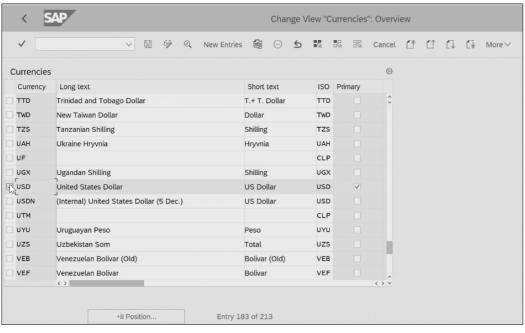


Figure 7.17 Standard Currencies

Click on your currency and then click the Copy As button, as shown in Figure 7.18.

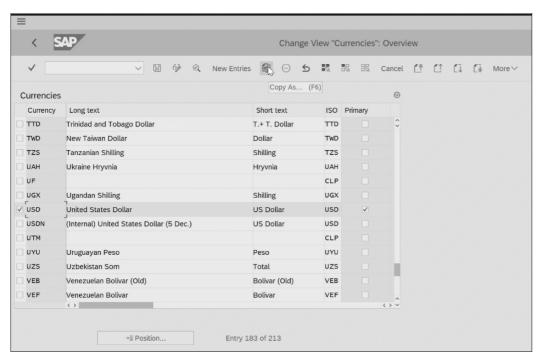


Figure 7.18 Copying a Currency

Change the currency name in the **Currency** field to a different value (something as simple as "USD1" can work), as shown in Figure 7.19, and then save.

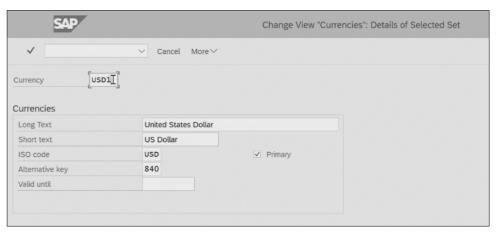


Figure 7.19 Creating a New Currency

Since this step only copied an existing currency and gave it a new name, this currency is still currently set at 2 decimal places. You can increase the number of decimal places by following the menu path SAP NetWeaver • General Settings • Currencies • Set Decimal Places for Currencies. Change the number decimal places, as shown in Figure 7.20, by finding the currency we just created and increasing the value in the Decimals field.

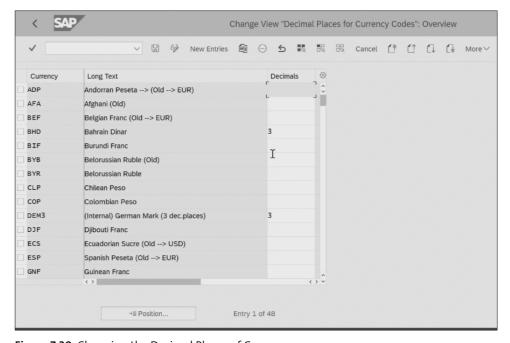


Figure 7.20 Changing the Decimal Places of Currency

Once this step is complete, you'll need to assign this currency (or a standard one) to wage types by following the menu path Personnel Management • Integration Settings for SuccessFactors Employee Central Payroll • Wage Type Processing • Assign Currencies to Wage Types.

Map wage types to currencies, as shown in Figure 7.21, by following these steps:

- 1. Click on **New Entries**.
- 2. Enter country grouping in the **Country Grouping** field.
- 3. Choose the wage type in the **Wage Type** dropdown menu.
- 4. Enter the currency to convert to in the **Currency to Convert To** field. The currency in the Employee Central Payroll system will rarely be different from the currency in the Employee Central system.
- 5. Enter the currency in Employee Central in the Replicated Currency field.
- 6. Save these settings.

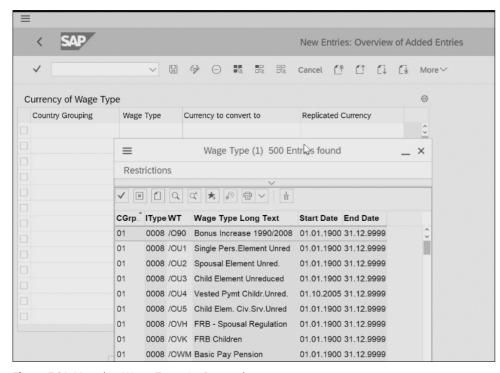


Figure 7.21 Mapping Wage Types to Currencies

Checking for Accuracy

You can check that the configuration is accurate using the standard report RP_HRS-FEC_CHECK_PAYC_WAGETYPE. Execute the report using Transaction SE38, as shown in Figure 7.22.

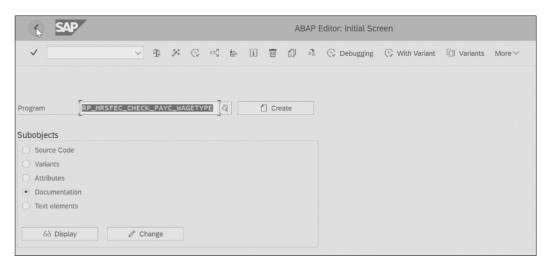


Figure 7.22 Executing the Check Report

You'll now see the selection screen shown in Figure 7.23. Choose the country in the **Country Grouping** field. Use the **Wage Type** field to select the wage types you need to check. If you want to hide entries that do not require any further changes, select the **Hide correct entries** checkbox.

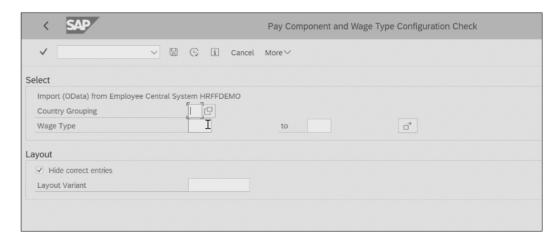


Figure 7.23 Selection Screen of a Check Report

Employee Central pay components that have not been mapped are displayed in the list and need further configuration. All records with an error are also displayed in the list. Records belonging to the same pay components and wage types are still displayed for completeness.

You can save your report selection by clicking on the **Save** button and providing a variant name, as shown in Figure 7.24. Now, execute the report by clicking on the **Execute** button.

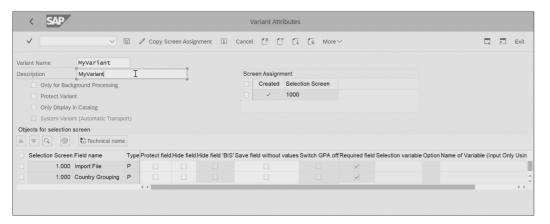


Figure 7.24 Naming a Selection Variant

The report uses color coding to communicate errors in the following way:

- Blue (validity period) means the time period displayed in the Start Date and End Date fields is relevant for each row separately, including pay component, mapping, and payroll data.
- Green (Employee Central data) displays pay component properties including the External Code, Pay Comp. Text (pay component text), Status, Pay Comp. (pay component type), Currency, Freq. (frequency code), Is Earning, and Is Recurring fields.
- Yellow (Employee Central Payroll data) displays wage type properties such as the Wage Type and WT (wage type text) fields. The actual required assignment of wage type to infotype is indicated in the IT0008, IT0014, IT0015, and IT0267 columns and whether it is permitted is shown in the IT0008 permitted, IT0014 permitted, IT0015 permitted, and IT0267 permitted columns, as shown in Figure 7.25.
- Red (error) covers the following errors:
 - Wrong deduction, for instance, the operation indicator for the wage type is wrong and must be corrected.
 - Wage type text is missing.
- Assignment to infotypes 0008, 0014, 0015, and 0267 is not permitted.
- Overlapping time validity: Shows whether the start and end date of a pay component or wage type change overlap. Correct the database table entry provided in that column, so the report can process the other checks for this entry.



Figure 7.25 Columns of a Wage Type Check Report

If pay component or wage type properties have been added or changed in any of the systems, a row is added to the list. This row shows the new or changed values. You can also download the report to Microsoft Excel by clicking the **Local File...** button, as shown in Figure 7.26.

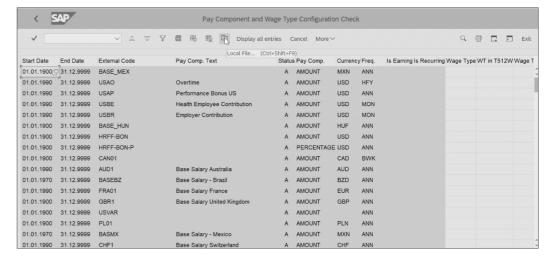


Figure 7.26 Running and Saving a Copy of a Check Report

Note

To run this check, you'll need to wait until the connection between the two systems is established, as discussed in more detail in Section 7.6.

7.2.4 Extensibility

Mapping Employee Central custom fields to Employee Central Payroll infotypes is possible through extensibility capabilities, which also allows for changes in the logic of how the system fills in Employee Central Payroll infotypes of the standard set (infotypes 0001, 0014, and 0015). Two types of extensibility are available: basic or custom. In this section, we'll explain both options.

Basic

With basic extensibility, you can map Employee Central custom or standard fields to Employee Central Payroll custom or standard fields. You can extend or overrule the standard mapping between Employee Central employee data fields and infotypes in Employee Central Payroll in various ways.

You can map standard and custom fields from the Job Information, Personal Information, and Compensation Information portlets to the Employee Central Payroll infotypes 0001, 0002, 0007, and 0008 in Employee Central Payroll. Table 7.2 lists further details.

Employee Central Portlet	Employee Central Payroll Infotype	Target Fields in Employee Central Payroll
Job Information	Infotype 0001 (Organizational Assignment) Infotype 0007 (Planned Working Time)	All standard and custom fields
Personal Information	Infotype 0002 (Personal Data)	All standard and custom fields
Job and Compensation	Infotype 0008 (Basic Pay)	TRFGR, TRFST, BSGRD, DIVGV, STVOR, ANSAL, ANCUR, and CPIND

Table 7.2 Scope of Basic Extensibility

Let's say you want to map the standard **contract_type** field from Employee Central to the **Work Contract** field of the **Personnel Structure** section (field ANSVH) of infotype 0001 in Employee Central Payroll.

First, make sure that the data type field <code>contract_type</code> is available in Employee Central by checking the data definition in the <code>Manage Business Configuration</code> screen in Employee Central (as described in Chapter 3, Section 3.2). Then, start the mapping by following the menu path <code>Personnel Management • Integration Settings for SuccessFactors Employee Central Payroll • Extensibility • Define Extensibility of Field Assignment.</code> You can also access this screen in Transaction SM3O by entering view <code>V_HRSFEC_EXT-MAP</code>. Either way, you'll see the screen shown in Figure 7.27.

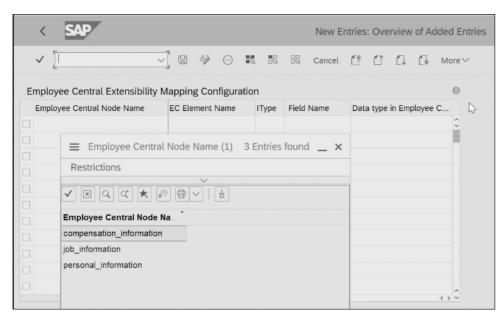


Figure 7.27 Extensibility Field Assignment

On this screen, you'll need to perform the following actions:

- 1. Press [F4] in the Employee Central Node Name column and select job information.
- 2. Select Employee contract_type for the EC Element Name column.
- 3. Select **0001** for the **iType** column.
- 4. Select CONTRACT_TYPE for the Data type in Employee Central column.

Custom Example

Let's say you want to map the custom_double20 field from Employee Central to the Supervisor field of the Organizational Plan section (field MSTBR) of infotype 0001in Employee Central Payroll. For this scenario, you would follow these steps:

- 1. Make sure that the data type field custom double 20 is available in Employee Central.
- 2. On the same screen shown in Figure 7.27, press F4 in the **EC Element Name** column. You'll get the list of Employee Central elements; select **custom_double20** from them.

Let's look at another, more advanced example. Changing the logic of how infotypes are filled in or using infotypes outside the standard set requires advanced extensibility using Business Add-Ins (BAdIs). Recall that a BAdI is a predelivered enhancement spot in the replication engine where you can place your own code, with some restrictions.

To reveal available BAdIs, follow the menu path Personnel Management • Integration Settings for SuccessFactors Employee Central Payroll • Extensibility • Business Add Ins for Point To Point Replication. You'll see the screen shown in Figure 7.28.

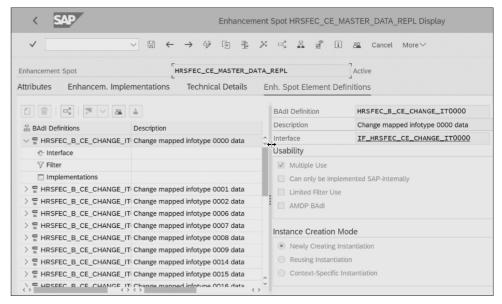


Figure 7.28 Extensibility BAdIs

This activity leads you to the enhancement spot HRSFEC_CE_MASTER_DATA_REPL, where you can find all the BAdIs available for use in replication. Two types of BAdIs are available for enhancing the default logic in specific Employee Central Payroll infotypes:

- BAdIs that are processed after the standard mapping logic but before the fields in the infotype are updated with a value. A BAdI exists for each infotype. Use these to extend or modify the mapping logic for the respective infotypes of the *standard set*, when basic extensibility is not sufficient. You do not need to update the infotype framework in the BAdI.
- BAdIs that are processed after the standard import logic for an employee but before saving the employee record. Use these BAdIs to extend the replication scope to infotypes that are not a part of the standard set. The comparison between old data and mapped data and the update to the infotype framework must be done in the BAdI. We recommend that you use generic update logic, as follows:
 - ITF CREATE
 - ITF DELETE
 - ITF_MODIFY
 - ITF READ
 - ITF READ ALL
 - ITF_READ_ALL_IT
 - ITF_READ_FOR_MODE
 - UPDATE MASS PNNNN DATA
 - UPDATE MASS PNNNN DATA SUBTY

The main operations performed for any update include the following:

- Comparison of old and new values
- Update of the infotype framework
- Deletion of records that did not come through in the replication

Note that every replication sends all the records for that employee from the designated date of system go-live, also known as the full transmission start date (FTSD), discussed in more detail in Section 7.4, which is stored in table PAOCFEC PN FTSD.

Note

Using BAdI involves coding, which means you'll need the assistance of a developer.

The standard infotype set for the first type of BAdI is shown in Table 7.3.

Infotype	Description	Employee Central Portlet	BAdI
Infotype 0000	Actions	Job Information and Compensation Infor- mation	HRSFEC_B_CE_CHANGE_IT0000
Infotype 0001	Organizational Assignments	Job Information and Compensation Infor- mation	HRSFEC_B_CE_CHANGE_IT0001
Infotype 0002	Personal Data	Personal Details and National ID	HRSFEC_B_CE_CHANGE_IT0002
Infotype 0006	Addresses	Address Information	HRSFEC_B_CE_CHANGE_IT0006
Infotype 0007	Planned Working Time	Job Information	HRSFEC_B_CE_CHANGE_IT0007
Infotype 0008	Basic Pay	Job Information and Compensation Information	HRSFEC_B_CE_CHANGE_IT0008
Infotype 0009	Bank Details	Payment Information	HRSFEC_B_CE_CHANGE_IT0009
Infotype 0014	Recurring Payments/ Deductions	Job Information and Compensation Infor- mation (Recurring Payments/Deduc- tions)	HRSFEC_B_CE_CHANGE_IT0014
Infotype 0015	Additional Payments	Job Information, Spot Bonus (Addi- tional Payments), and One Time Deductions (Addi- tional Deductions)	HRSFEC_B_CE_CHANGE_IT0015
Infotype 0016	Contract Ele- ments	Employee and Employment Infor- mation	HRSFEC_B_CE_CHANGE_IT0016
Infotype 0021	Family Member/ Dependents	Person	HRSFEC_B_CE_CHANGE_IT0021

Table 7.3 BAdIs to Change Infotype Data

Infotype	Description	Employee Central Portlet	BAdi
Infotype 0027	Cost Distribution	Job Information and Cost Distribution	HRSFEC_B_CE_CHANGE_IT0027
Infotype 0041	Date Specifica- tions	Job Information and Employment Infor- mation	HRSFEC_B_CE_CHANGE_IT0041
Infotype 0105	Email data	Email Information	HRSFEC_B_CE_CHANGE_IT0105_EMAI
Infotype 0185	Personal IDs	Employee and Employment Information	HRSFEC_B_CE_CHANGE_IT0185
Infotype 0267	Additional Off- Cycle Payments	Job Information, Spot Bonus (Addi- tional Payments), and One Time Deductions (Addi- tional Deductions)	HRSFEC_B_CE_CHANGE_IT0267
Infotype 0709	Person ID	Employee ID	HRSFEC_B_CE_CHANGE_IT0709

Table 7.3 BAdIs to Change Infotype Data (Cont.)

The second type of BAdI is useful for extending replication to other infotypes not included in the standard set above. Only two BAdIs fall under this category:

- HRSFEC B CE PROCESS EMPLOYEE
- HRSFEC B CE PROCESS ET

In addition to these infotype-focused BAdIs, three other BAdIs provide special capabilities for replication not available with configuration:

- Change Mapping of External Personnel Number (HRSFEC B CE EXT PERNR MAP)
- Exclude Certain Subtypes of Infotype Records from Deletion (HRSFEC_B_EXCLUDE_FROM DELET)
- Decide on Hire or Rehire (HRSFEC B CE DECIDE HIRE REHIRE)

Custom Metadata Framework Objects

Sometimes, a business scenario requires the capturing of HR data that is not available in a standard Employee Central system. SAP provides a mechanism for creating a table

structure in Employee Central, known as a *custom Metadata Framework (MDF) object*. To bring this object over to Employee Central Payroll, follow these steps:

- 1. In Employee Central, ensure the custom MDF object has the following values:
 - API Visibility: Read
 - Status: Active
 - MDF Version History: Complete history
- 2. Still in Employee Central, enter "Manage Data" in the search bar. When the screen shown in Figure 7.29 appears, enter your custom object in the **Object Type** field of the Compound Employee application programming interface (API) Object Types MDF, as shown in Figure 7.30, and save.



Figure 7.29 Managing Data in Employee Central



Figure 7.30 Compound Employee API Object Type

3. Let's move to Employee Central Payroll. Each segment of data from Employee Central is brought across to Employee Central Payroll based on the query segment configured by following the menu path Personnel Management • Integration Settings for SuccessFactors Employee Central Payroll • Configuration of Point-to-Point Replication • Configure Compound Employee API Query. Select the configuration ID you want to use and click on Query Segments. You'll see a screen with the query segments already configured, as shown in Figure 7.31.

Specify the custom object as another segment, as discussed in Section 7.1, as shown in Figure 7.31. After saving, you can now pull in this data into Employee Central Payroll through replication. Remember, you still must decide on the infotype and map the fields using one of the BAdIs mentioned earlier—this mapping does not happen automatically for custom MDF objects.

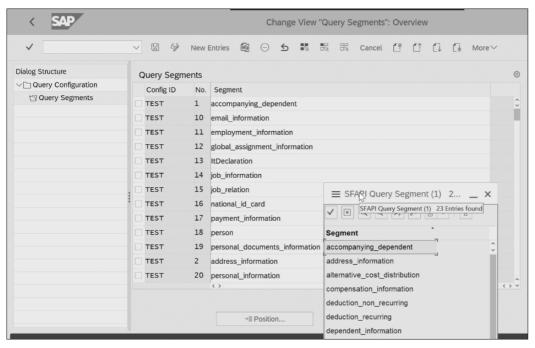


Figure 7.31 Query Segments in Replication Configuration

7.3 Country Filtering

Sometimes, you need to restrict data replication to certain countries. For example, let's say you need to exclude countries where payroll is outsourced due to the relatively small number of employees. You can bring up the configuration screen for country filtering by following the menu path Personnel Management • Integration Settings for SuccessFactors Employee Central Payroll • Country Filter • Restrict Employee Master Data Replication to Given Countries.

You'll see the screen shown in Figure 7.32. In the **ISO code** column, select the countries you want to replicate and then save.



Figure 7.32 Country Filtering

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7.4 Migration and Cutover Scenarios

Figure 7.33 shows a typical cutover scenario for an implementation. The data maintenance process passes over from old to new systems in a short period of time called a *cutover*. This time is when the data is migrated into the new system.

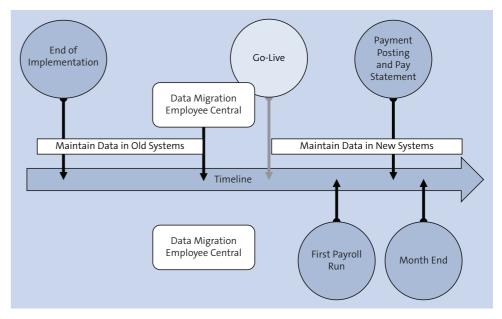


Figure 7.33 Sample Cutover Plan

For a payroll system, the following four tasks are relevant during conversion of data, as shown in Figure 7.34:

- 1. Extracting employee data from a legacy system (personnel information and employment information including organizational information and compensation information) and loading this data into Employee Central.
- 2. Loading employee data into Employee Central Payroll using the standard data replication capability.
- 3. Extracting employee data from a legacy system that is not maintained in Employee Central (tax information, social insurance information) and loading this data into Employee Central Payroll.
- 4. Extracting payroll results from a legacy system and loading this into Employee Central Payroll.

Note

Note that this first task listed is specific to Employee Central, so we won't cover this topic in detail in this book. The third and fourth tasks will be discussed in Chapter 16.

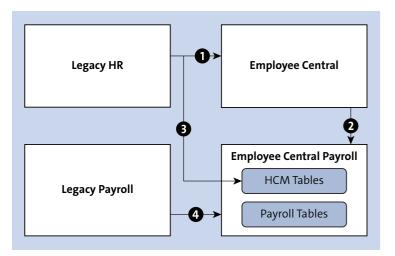


Figure 7.34 Data Migration Model

The second task, loading employee data, is critical to plan, with several questions that you must answer:

- How will the payroll history be loaded?
- How should terminated employees be handled?
- How should employees who are not paid out from the payroll system handled?

At this stage, we need to return to an important concept: the FTSD, which is used to delineate a time period from which the replication starts. This line in the sand is where the system starts looking for changes. In other words, the replication engine does not care about the history of the employee before this date and only looks forward from this date. Typically, this date is the go-live date for the system. Once the FTSD is specified, the following becomes true:

- Only records after this date are extracted from Employee Central.
- Records that end before this date are ignored.
- Replication errors out if a record in Employee Central has a start date before the FTSD and an end date after it.

Therefore, you must be careful about choosing the FTSD date, and you must ensure that the start dates of all records being replicated from Employee Central meet the outlined criteria; otherwise, they will never be successfully replicated.

Before going live with Employee Central Payroll, you must set a start date that matches the FTSD for *all* employees who are in scope for replication in the Employee Central system. This step is achieved through a mass loading process in Employee Central similar to task described earlier.

The most typical implementation starts off with a full load covering all historical data, and then the FTSD can be changed so that subsequent replications can focus on what is modified in the future, not the data in the past.

If you have a long data history, we recommend that you do not transfer all of this data to Employee Central Payroll. Some organizational or compensation structures may be so obsolete that creating those structures will require effort and may lack value for the future. Some companies transfer a history with a "fake" structure to ease the effort.

To set up the FTSD, follow the menu path Personnel Management • Integration Settings for SuccessFactors Employee Central Payroll • Configuration of Point-to-Point Replication • Configure Compound Employee API Query. From this screen, only three steps are required: Click New Entries (which will open the screen shown in Figure 7.35), set the date, and save these settings.

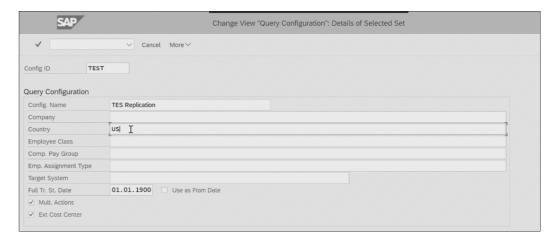


Figure 7.35 FTSD Parameter in Query Configuration

One scenario with terminated employees needs a small digression. If a terminated employee was not loaded during go-live, what happens if this person is rehired? You can exclude these employees from the replication. However, if this employee is rehired, the replication logic recognizes this fact and includes the employee in the replication processes after the rehire date. Unlike active employees, you do not need to split the data records of terminated employees on the cutoff date. This mechanism requires you turn on a switch by following these steps:

- 1. In Employee Central Payroll, go to Transaction SM30, as shown in Figure 7.36.
- 2. Enter "V T77SO" in the Table/View field.
- 3. Click Maintain.
- 4. Click New Entries.

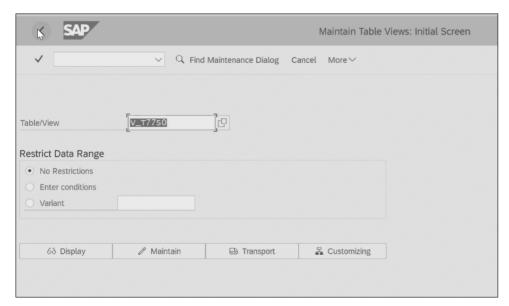


Figure 7.36 Transaction SM30 to Turn On Switch

- 5. Find **SFEC** under the **Group** field and then semantical abbreviation **EECOH** under the **Sem.abbr.** field, as shown in Figure 7.37.
- 6. Set the value abbreviation in the Value Abbr field to "X."
- 7. Save these settings.

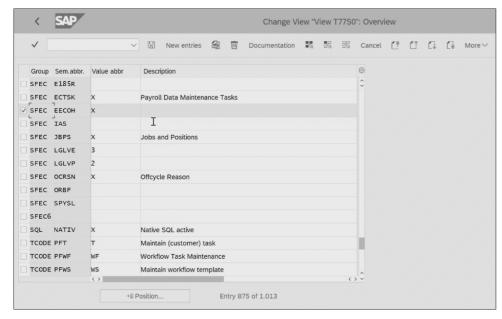


Figure 7.37 Switch Enabling Rehire of Terminated Employees without History

Note

This option is not currently supported if you have turned on multiple actions for the replication in the point-to-point replication configuration. For more information, see Chapter 8, Section 8.2.

In addition, quite a few infotypes are needed by Employee Central Payroll that are never captured in Employee Central. Table 7.4 shows the infotypes required for tax and benefit calculations in the US.

Infotype	Description
0045	Loans
0078	Loan Payments
0161	IRS Limits
0194	Garnishment Document
0195	Garnishment Order
0216	Garnishment Adjustments
0207	Residence Tax Area
0208	Work Tax Area
0209	Unemployment State
0210	Withholding Information W4/W5
0234	Additional Withholding Information
0235	Other Taxes
0506	Tip Indicators

Table 7.4 Infotypes Not Captured in Employee Central

Two methods for loading this data into Employee Central Payroll are popular:

- Using the Legacy System Migration Workbench, a standard method for SAP systems for many years
- Writing a special custom ABAP program to load the data

In both cases, the data is made available in a fixed or CSV file format that closely matches the infotype record. Transferring pay results before go-live is not common because of the complexity involved. But if required, you can transfer pay results before go-live. Usually, instructions for this step vary by country. For the US, you would load three tables and execute a payroll run for conversion. Instructions are available by

following the menu path Payroll (Country) • Transfer Legacy Data • Define Period Table/Define Wage Type Table/Define Tax/Arrears Table.

Generally, you would perform the following four steps:

- 1. Extract the pay results that must be loaded and assign period and wage types.
- 2. Format the data in two tables T558B (Periods) and table T558C (Wage Types).
- 3. Load tables T558B and T558C using a custom program or using the configuration path mentioned earlier.
- 4. Run the payroll schema ULK9.

Even though your company may decide not to migrate payroll results from the past, you may still need to load cumulative balances of the last tax year if the go-live is planned in the middle of the tax year. This requirement stems from tax calculations that rely on information about deductions that have already taken place and calculations to determine limits in deductions—if the limits have been reached, then the deduction must stop.

7.5 Activating User Interface Integration Services

As described in Chapter 6, Section 6.1.2, the integration between Employee Central and Employee Central Payroll depends on web services. We described two services in an Employee Central system: the OData API and SFAPI. In the Employee Central system, equivalent services interact with web services on the HR side.

These services perform many things, but one goal is close to the user—the user interface (UI) integration service. A UI represents the way a human being communicates with Employee Central Payroll. By using these services, an employee can interact with Employee Central Payroll from the Employee Central frontend, enabling easy access through a single system. The service calls Employee Central Payroll behind the scenes and serves up the requested product seamlessly. The following UI services are available to use:

■ HRPAO PAOM MASTERDATA

Allows the updating of Employee Central Payroll infotypes from the Employee Central frontend.

■ PAYSLIP

Displays pay statements on the Employee Central frontend by retrieving pay results from Employee Central Payroll.

■ PAYMNT SUM AU

Displays the Payment Summary Form for Australia in the Employee Central system by using pay results from the payroll system.

■ HRESS A PAYINFO

Displays the Superannuation statement for Australia in the Employee Central system by using pay results from the payroll system.

■ HRESS A REP IN FORM16

Displays Form 16 statement for India in the Employee Central system by using pay results from the payroll system.

Note that these services are all optional, but each must be turned on if required. You can turn on these services in Transaction SICF, as shown in Figure 7.38.

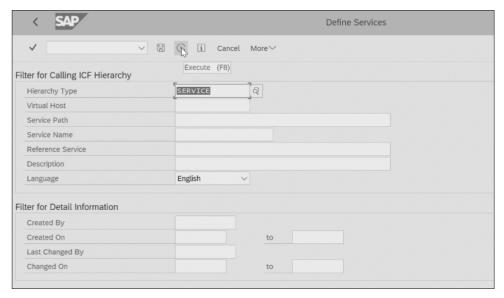


Figure 7.38 Transaction SICF

Click the **Execute** icon at the top of the screen. Then, as shown in Figure 7.39. Right-click on a service and select **Activate Service**. Save.

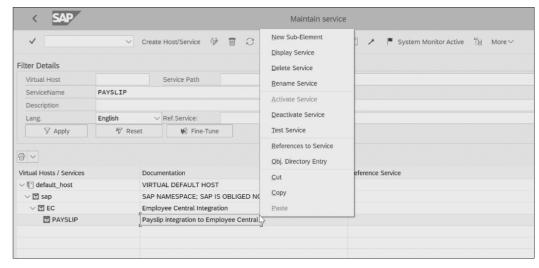


Figure 7.39 Activating Payroll Services in Employee Central Integration

7.6 Setting Up the Connection to Employee Central

The connection to Employee Central can be set up entirely in Transaction HRSFEC_PTP_CONFIG, which uses the program RP_HRSFEC_PTP_CONFIGURATION.

Before executing this program, make sure you've completed the following steps:

- Collect the SFAPI user name and password for the user that will be used to connect.
 This user needs permission to access Employee Central APIs and OData service communications.
- Create the replication target system.

Creating a replication target can be achieved in two ways. In the first approach, you would follow these steps:

1. Find the logical system name of Employee Central Payroll using Transaction SCC4, as shown in Figure 7.40.

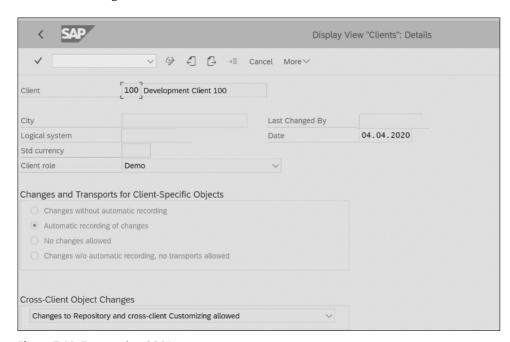


Figure 7.40 Transaction SCC4

- 2. Log on to the Employee Central system and go to Admin Center Manage Data.
- 3. Click on the **Create New** button and search for "replication target system" in the first dropdown menu, as shown Figure 7.41.
- 4. In the **External Code** field, enter the logical system name you found from Transaction SCC4.
- 5. In the External Name field, define an external name according to your preferences.

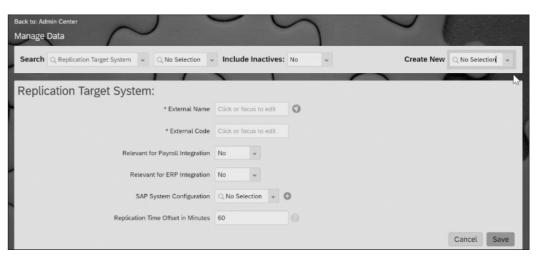


Figure 7.41 Setting Up Replication Target System

- 6. Choose Yes from the Relevant for Payroll Integration dropdown list.
- 7. In the **Replication Time Offset in Minutes** field, enter the delay in minutes you want the resending of data to be postponed by when the payroll area is locked or in correction phase. If you leave this field empty, the default time until resend is 60 minutes.
- 8. Click Save.

The second method of creating a replication target system is much simpler. Simply open Transaction HRSFEC_PTP_CONFIG and select the **Create Repl. Target System** checkbox. However, this method only works if the connectivity between the two systems is working perfectly. To avoid this dependency, defining a replication target system using the first method may be advisable.

Now that you've created the replication target system, let's return to setting up the connection to Employee Central. In Transaction HRSFEC_PTP_CONFIG, follow these steps:

- 1. Select the **Set Connection Data** radio button.
- 2. Select the correct API server URL, based on your data center, from the dropdown list.
- 3. Maintain the Company, User, and Password fields for Employee Central.
- 4. Click Execute.

The program creates everything you need, and you should see the following success messages:

- Creation of RFC destination ECP_PTP_SOAP_NNN was successful.
- Creation of RFC destination ECP PTP ODATA NNN was successful.
- Employee Central credentials were saved successfully.

You can now test your connection via Transaction HRSFEC_PTP_CONFIG, but this time, select the **Ping Employee Central APIs** radio button. Now, click the **Execute** button. Three connections can be tested:

- Employee Master Data API: A logon and logoff to the Compound Employee API are executed.
- Confirmation API: An OData API query is performed on the EmployeeDataReplicationConfirmation object.
- Time Data API used for time-off data replication: An OData API query is performed on the DataReplicationProxy object.

7.7 Scheduling Master Data Replication from Employee Central to Employee Central Payroll

Once you've finished configuring the replication process and tested the connection, you're now ready to schedule the replication process. Scheduling is a technique for automatically running a transaction in the Employee Central Payroll system at a certain time on a certain day.

To begin scheduling master data replication, enter Transaction HRSFEC_PTP_EE_REPL and click **Execute**. Now, maintain the **Configuration ID** field, as shown in Figure 7.42. For our example, choose the configuration ID that we set up earlier.



Figure 7.42 Transaction HRSFEC PTP EE REPL

Click on the **Save** icon, and a variant screen appears, as shown in Figure 7.43. Maintain the **Variant Name** and **Description** fields and then click the **Save** icon.

Now, trigger a test run by entering a **Personnel Number** (Person_Id_External) and clicking the **Execute** button. Next, enter "/N HRSFEC_REPL_STATUS." You should see a screen to find the latest replication status, as shown in Figure 7.44.

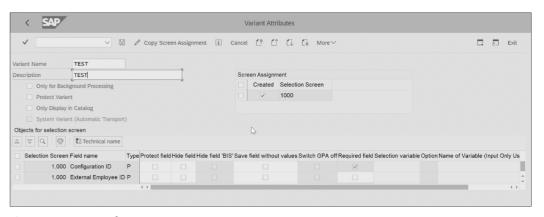


Figure 7.43 Variant for HRSFEC_PTP_EE_REPL

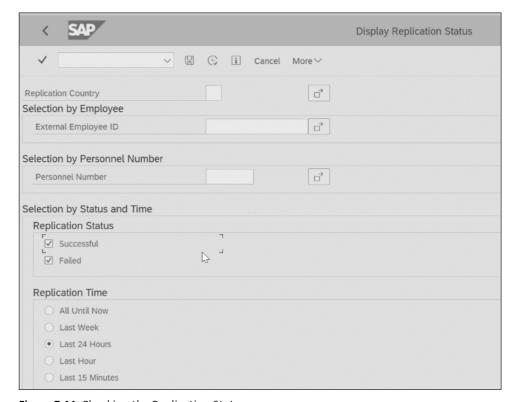


Figure 7.44 Checking the Replication Status

If the replication process was successful, the display will be green or yellow. If you see any red on the screen, a problem occurred. Double-click on the message to reveal the cause of the issue. (This report will be covered in more detail in Chapter 14.) Once the issue is fixed, run the replication again with a test employee and confirm the process is working. Now, run Transaction SM36, maintain the **Job Name** field, and choose **Start condition**, as shown in Figure 7.45.

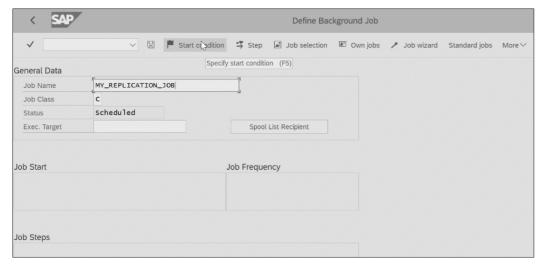


Figure 7.45 Transaction SM36

Click on **Step** and enter the ABAP program name "RP_HRSFEC_PTP_EE_REPLICATION," which is the variant that we saved earlier, and save these settings.

Next, you'll need to define the schedule, as shown in Figure 7.46. Click **Immediate** and select the **Periodic job** checkbox. Select **Period Values** and choose **Other Period**. Enter the timeframe of your choice (e.g., 2 hours) and save.

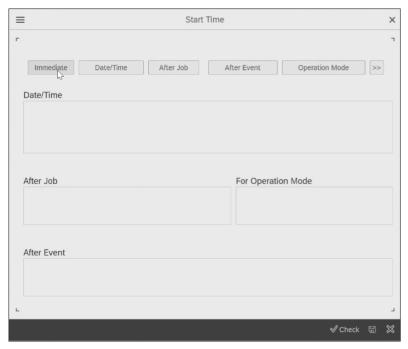


Figure 7.46 Job Timing

Now, the job will execute according to your specified periodicity and pick up all changes in Employee Central data, send these changes over to the Employee Central Payroll system.

7.8 Enabling Push Replication

Sometimes, having a scheduled job to replicate master data is not enough. However frequent the transfer of data may be, this replication is not in real time and therefore is sometimes unsuitable for certain business demands.

In these situations, a nearly real-time replication method can be enabled by utilizing SAP SuccessFactors's Intelligent Services. In this way, the data replicates as soon as critical events like hire, rehire, or termination actions occur.

Before you begin, ensure that Intelligent Services is enabled in provisioning. As a customer, you may not have access to these provisioning screens and instead will need to log a service ticket with SAP Support.

Next, import rules to trigger external events in Employee Central by performing the following steps:

- 1. Log on to Employee Central and go to the Admin Center.
- 2. Choose **Import and Export Data** from the menu shown in Figure 7.47.

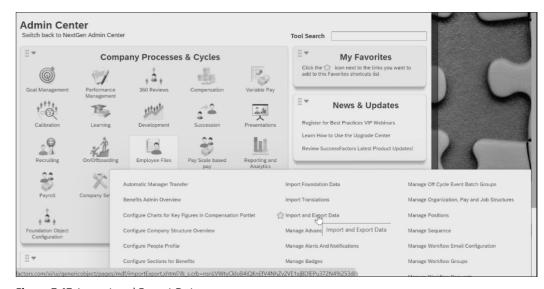


Figure 7.47 Import and Export Data

3. Now, choose **Import Data** from the **Select the action to perform** dropdown list, as shown in Figure 7.48.



Figure 7.48 Import Data

4. Choose Success Store. In the Package Name column, select the Intelligent Service Rules radio button. Click Import, as shown in Figure 7.49.

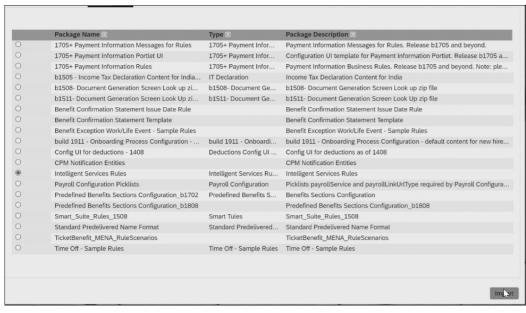


Figure 7.49 Import Package

- 5. Now, go to the **Manage Business Configuration** screen by typing "Manage Business Configuration" in the search bar.
- 6. Click **Job Info** and scroll down to **Trigger Rules**, as shown in Figure 7.50. You should see that the following rules have been successfully uploaded:
 - Event Hire
 - Event Rehire
 - Event_Terminate

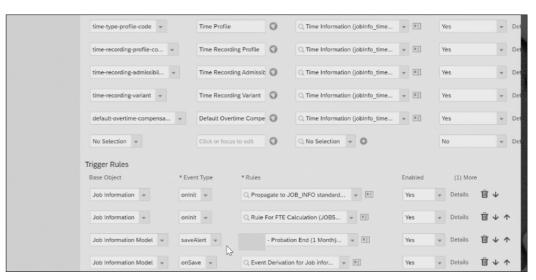


Figure 7.50 Trigger Rules

Assign the rules you just uploaded to this group by adding the following for each rule:

- Base Object: Select Job Information Model.
- Event Type: Select onPostSave.

Your next step is to find the access URL, as follows:

- 1. In the Employee Central Payroll system, execute Transaction SOAMANAGER.
- 2. Under Service Administration, choose Simplified Web Service Configuration
- 3. As shown in Figure 7.51, enter "*masterdatapush*" in the Search Pattern field.

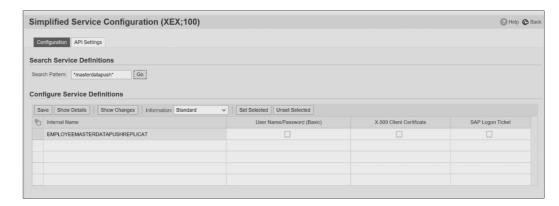


Figure 7.51 SOA Manager

- 4. Select the relevant service definition, called EMPLOYEEMASTERDATAPUSHREPLICAT.
- 5. Select the checkbox in the User Name/Password (Basic) column and click Save.
- 6. Choose Show Details.

7. From the Configuration Details section, copy the Access URL, as shown in Figure 7.52.



Figure 7.52 Access URL

- 8. Paste this URL into an open Microsoft Word document so you can use it later in this task.
- The final task is to set the event notification subscription by entering "Event Notification Subscription" into the search bar, which will result in the screen shown in Figure 7.53.

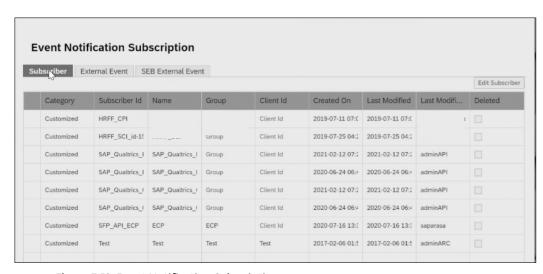


Figure 7.53 Event Notification Subscription

- 10. Go to the Subscriber view and create a subscriber.
- 11. Then, under the **SEB External Event** tab, click **Add Topic** and maintain the following information:
 - SEB Event Type: Select an external event alert type.
 - Endpoint URL: Enter the URL you copied in the previous step.
 - **Subscriber**: Enter the subscriber you created from the previous step.
 - Protocol: Select SOAP over HTTP/HTTPS.
- 12. Click Authentication Basic.

A quick way to test if the configuration was successful is to follow these steps:

- 1. In the Employee Central search bar, enter "Event Notification Audit Log."
- 2. In the **Event Details** column, you can access the log by clicking **View** in the **Event Details** column, as shown in Figure 7.54.

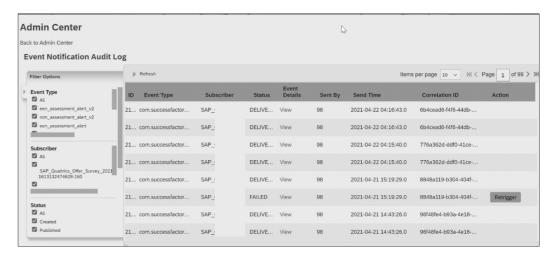


Figure 7.54 Event Notification Audit Log

7.9 Using Mapping Check Tools in Employee Central Payroll

Two tools are available in Employee Central Payroll to detect errors in configuration that might lead to errors or dropouts (records going missing) in data integration. Of course, to run these tools, the connectivity between the two systems must have been set up already.

The first tool, the Pay Component and Wage Type Configuration Check tool, specifically focuses on wage type inconsistencies. (Recall our discussion of wage type synchronization in Section 7.2.3 and how the setup depends on appropriate pay components on the Employee Central system.) This tool will tell you if links are missing between wage types and pay components, highlighting wage types that should be assigned to

infotypes 0008, 0014, 0015, and 0267 but are not. It also highlights missing text, identifies if the validity of a pay component fails to match with the validity of a wage type, and identifies pay components or wage types that have been changed or recently added, as discussed earlier in Section 7.2.

The second tool, the Check Inconsistencies in Code Value Mapping and Properties tool, shows discrepancies in the mapping of code values, such as employee classes and action types. To use this tool, run Transaction SE38 and access report RP_HRSFEC_ CHECK EC2ECP MAPPING. You should see the screen shown in Figure 7.55.

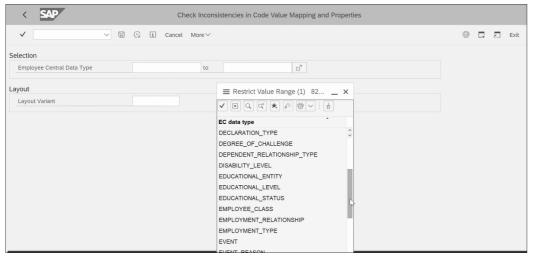


Figure 7.55 Check Tool for Data Type Mapping Inconsistency

Choose the data type you're checking from the **Employee Central Data Type** dropdown menu or leave it blank. Click on the **Execute** button.

You'll then see a report that identifies where an incorrect mapping occurs between the two systems.

7.10 Summary

This chapter explained the integration components related to point-to-point replication. You're now familiar with the basic tools for setting up connections between Employee Central and Employee Central Payroll systems. We also covered the scheduling of replication processing and explored how to simulate nearly real-time transfers through push replication. In the next chapter, we'll examine further intricacies related to the data replicated between the two systems.

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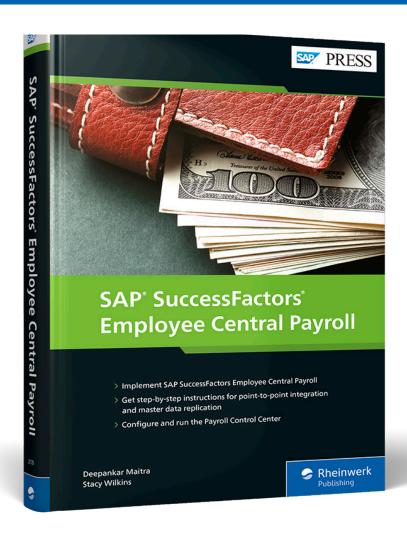
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