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| SAP ERP 6.0  April 2018  EnglishEnglish |  |
|  | SAP ERP: Cost Center Integration to Employee Central Payroll (FK8) |
| SAP SE Dietmar-Hopp-Allee 16 69190 Walldorf Germany | Building Block Configuration Guide |

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| **Revision** | **Change Date** | **Description** |
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Icons

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| Icon | Meaning |
|  | Caution |
|  | Example |
|  | Note |
|  | Recommendation |
|  | Syntax |

Typographic Conventions

|  |  |
| --- | --- |
| Type Style | Description |
| Example text | Words or characters that appear on the screen. These include field names, screen titles, pushbuttons as well as menu names, paths and options.  Cross-references to other documentation. |
| Example text | Emphasized words or phrases in body text, titles of graphics and tables. |
| EXAMPLE TEXT | Names of elements in the system. These include report names, program names, transaction codes, table names, and individual key words of a programming language, when surrounded by body text, for example, SELECT and INCLUDE. |
| Example text | Screen output. This includes file and directory names and their paths, messages, source code, names of variables and parameters as well as names of installation, upgrade and database tools. |
| EXAMPLE TEXT | Keys on the keyboard, for example, function keys (such as F2) or the ENTER key. |
| Example text | Exact user entry. These are words or characters that you enter in the system exactly as they appear in the documentation. |
| <Example text> | Variable user entry. Pointed brackets indicate that you replace these words and characters with appropriate entries. |

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**SAP ERP: Cost Center Integration to Employee Central Payroll**

# Purpose

The purpose of this document is to describe the general configuration steps required to manually set up the configuration within the system landscape that has already been installed using the corresponding installation or configuration guides for installation.

This document supplements the existing configuration documentation and provides additional information where required.



If you do not plan to use Employee Central Payroll this configuration guide is not required.

The below configuration steps are also valid for SAP S/4HANA On-Premise. For this reason, only “SAP Finance” is used.

# Preparation

## Prerequisites

Before you start installing this scenario, the prerequisite building blocks need to be configured. Check the sequence of execution in the *Building Block Prerequisites Matrix* for this Packaged Solution.

For the communication between SAP Finance and Employee Central Payroll system a RFC destination of type ‘3 - ABAP Connection’ needs to be setup first. This should be done from your system management upfront.

# Configuration

To ensure that the cost centers are in synchronization with the On-Premise SAP Finance, this packaged solution provides a distribution setup based on Application Link Enabling (ALE) and IDoc interface technology. Proceed with the following steps to do the ALE scenario setup.

## SAP Finance: Setup Application Link Enabling (ALE)

If not yet done from system management, define and assign the logical system in your Finance and Employee Central Payroll system.

### Defining Logical System

In the following configuration steps, you create the logical systems for your SAP Finance and Employee Central Payroll system, if not yet done:

1. In your SAP Finance system, access the following transaction:

| **Transaction Code** | SALE |
| --- | --- |

1. On the *Display IMG* screen, access the transaction using the following navigation option:

| **IMG Path** | *Idoc Interface / Application Link Enabling (ALE)* → *Basic Settings* → *Logical Systems* → *Define Logical System* |
| --- | --- |

1. On the *Logical Systems* change view, choose *New Entries*.
2. On the *New Entries: Overview of Added Entries* screen, make the following entries:

| **Logical System** | **Name** |
| --- | --- |
| Enter the logical system of your SAP Finance system, for example, QI1CLNT600. | Enter a name to identify your SAP Finance system. |

tip

The distribution of data between systems requires a unique identification for each system in the network. The logical system is used for this purpose.

1. Save your entries.
2. Create a transport request, if necessary, and choose *Continue*.
3. In the Employee Central Payroll system: Repeat steps 1 through 6 to create the logical system for the Employee Central Payroll system (for example, X0BCLNT601), if not yet done by system management.

### Assigning Logical System to Client

In the following configuration steps, you assign the logical system for your SAP Finance system and the Employee Central Payroll system to the corresponding client, if not yet done.

1. In your SAP Finance system, access the following transaction:

| **Transaction Code** | SALE |
| --- | --- |

1. On the *Display IMG* screen, access the transaction using the following navigation option:

| **IMG Path** | *Idoc Interface / Application Link Enabling (ALE)* → *Basic Settings* → *Logical Systems* → *Assign Logical System to Client* |
| --- | --- |

1. Search for the client you are currently logged in and double-click the entry to see the details.
2. On the *Change View “Clients”: Details* screen, check the following entry:

| **Field name** | **Value** |
| --- | --- |
| *Logical System* | Logical system name of the system and client you are logged in for example, QI1CLNT600 |

1. Save your entry.
2. Create a transport request, if necessary, and choose *Continue*.
3. In the Employee Central Payroll system: Repeat steps 1 through 6 and check there the logical system for your payroll system/client (for example, X0BCLNT601).

### Checking Cross-System Company Code

Cross-system company codes are used in the distribution in financial accounting. There is exactly one central system for each cross-system company code in the distributed environment. One company code has to be assigned to this cross-system company code on each system involved in the distribution.

When sending an IDoc with company code-dependent data, the company code is replaced with the cross-system company code in all company code fields. When receiving this kind of IDoc, the reverse conversion takes place.

1. In your SAP Finance system, access the following transaction:

| **Transaction Code** | SALE |
| --- | --- |

1. On the *Display IMG* screen, access the transaction using the following navigation option:

| **IMG Path** | *Idoc Interface / Application Link Enabling (ALE)* → *Modelling and Implementing Business Process* → *Global Organizational Units* → *Cross-System Company Codes* |
| --- | --- |

1. Choose *Assign Company Code to Cross-System Company Code* on the *Choose Activity* menu popup screen.
2. On the *Change View: Assign company code* → *Cross-system company code: Overview* screen, check if your company code has already an assigned *Global CoCde*.
3. If not, choose *Back*. Select *Cross-System Company Codes* on the *Choose Activity* menu popup screen.
4. On the *Change View: Cross-System Company Code: Overview* screen, create the following entry:

| **Field Name** | **Value** |
| --- | --- |
| *Global CoCde* | <Enter an ID for your global Company Code, for example GLCC01> |

1. Save your entry.
2. Choose *Back*. Choose *Assign Cross-System Company Code to Chart of Accounts* on the *Choose Activity* popup menu.
3. On the *Change View: Assign cross-system co.cde* → *chrt of accts: Overview* screen, create the following entry:

| **Field Name** | **Value** |
| --- | --- |
| *Global CoCde* | <Enter an ID for your global Company Code, for example GLCC01> |
| *Tar.chrt/accts* | <Assign the Chart of Accounts which accounts are created in the target system> |

1. Save your entry.
2. Now go back again to *Assign Company Code to Cross-System Company Code* and assign your newly created cross-system company code.
3. Save your assignment.

tip

Consider that the connection between cross-system company codes and local company codes is a 1:1.

1. Repeat steps 1 through 11 in your Employee Central Payroll system using the same values for the cross-system company code.

### Checking Cross-System Business Area

Cross-system business areas are used in distribution in financial accounting. The business areas must be assigned to cross-system business areas on each system involved in the distribution.

When sending an IDoc with business area data, the business area is replaced with the cross-system business area in all business area fields. When receiving this kind of IDoc, the reverse conversion takes place.

1. In your SAP Finance system, access the following transaction:

| **Transaction Code** | SALE |
| --- | --- |

1. On the *Display IMG* screen, access the transaction using the following navigation option:

| **IMG Path** | *Idoc Interface / Application Link Enabling (ALE)* → *Modelling and Implementing Business Process* → *Global Organizational Units* → *Cross-System Business Areas* |
| --- | --- |

1. Choose *Assign Business Area to Cross-System Business Area* on the *Choose Activity* popup menu.
2. On *Change View: Assign Business Area to Cross-System Business Area: Overview* screen, check if your used business area has already an assigned *X-SysBusAr* value.
3. If not, choose *Back*. Choose *Cross-system business areas* on the *Choose Activity* menu popup.
4. On the *Change View: Cross-System Business Area: Overview* screen, create the following entry:

| **Field Name** | **Value** |
| --- | --- |
| *Global CoCde* | <Enter an ID for your global Business Area, for example GB01> |
| *Description* | <Enter a description for your global Business Area > |

1. Now go back again to *Assign Business Area to Cross-System Business Area* and assign your newly created cross-system business area.
2. Save your assignment.

tip

Consider the connection between cross-system company codes and local company codes is a 1:1.

1. Repeat steps 1 through 9 in your Employee Central Payroll system using the same values for the cross-system business area.

### Maintaining Distribution Model

In this step, the distribution model gets created.

1. In your SAP Finance system, access the following transaction:

| **Transaction code** | BD64 |
| --- | --- |

1. On the *Display Distribution Model* screen, switch to the change mode.
2. Choose *Create Model View* (**Ctrl + F4**).
3. In the *Create model view* dialog box, enter a short text (for example <FIN600 to EC Payroll>) and a technical name (for example <FIN600ECPY>). Choose *Continue* (**Enter**).Save your entries.
4. Select your newly created model and choose *Add Message Type*.
5. In the *Add Message Type* dialog box, enter the logical system of your SAP Finance system in the *Sender* field and the logical system of your Employee Central Payroll system in the *Receiver* field. As message type, select COSMAS.
6. Save your entries.

### Activating Change Pointer

1. In your SAP Finance system, access the following transaction:

| **Transaction Code** | SALE |
| --- | --- |

1. On the *Display IMG* screen, access the transaction using the following navigation option:

| **IMG Path** | *Idoc Interface / Application Link Enabling (ALE)* → *Modelling and Implementing Business Process* → *Master Data Distribution* → *Replication of Modified Data* → *Activate Change Pointers for Message Types* |
| --- | --- |

1. On the *Change View: Activate Change pointers for Message Type* screen, verify that the activation is set for message type COSMAS.

### Maintaining Port

1. In your SAP Finance system, use one of the following navigation options:

| **Transaction Code** | WE21 |
| --- | --- |
| **Menu Path** | *SAP Menu* →*Tools* → *ALE* → *ALE Administration* → *Runtime Settings* → *Port Maintenance* |

1. On the *Ports in IDOC processing s*creen, select *Transactional RFC* in the navigation panel.
2. Choose *Create*.
3. On the Ports in IDoc processing screen, select *Generate port name* and enter a technical Name, for example <X0BCLNT601>.
4. Choose *Enter*.
5. On the *Creating a tRFC port* screen, make the following entries:

| **Field Name** | **Value** |
| --- | --- |
| *Description* | <Enter a description for your port name> |
| *Version* |  |
| *IDoc record types SAP Release 4.x* | X |
| *RFC destination* | <Enter the technical name of your RFC destination for the Employee Central Payroll system> |

1. Save your entries.

### Creating Partner Profile

1. In your SAP Finance system, access the following transaction:

| **Transaction code** | WE20 |
| --- | --- |

1. On the *Partner profiles s*creen, select *Partner Type LS* in the navigation panel.
2. Choose *Create* and make the following entries:

| **Field Name** | **Value** |
| --- | --- |
| *Partner No.* | <Enter the ID for your partner no. Your ALE partner is an SAP system that is addressed by your system (using RFC), in this case the Employee Central Payroll system, for example X0BCLNT601> |
| *Partn. Type* | LS |

1. On *Post processing: permitted agent* tab, specify the job (person or group of people) to be notified if processing errors occur.
2. In the *Outbound parmtrs.* Section, choose *Create Outbound Parameter*.
3. On the *Partner profiles: Outbound parameters* screen, make the following entries:

| **Field Name** | **Value** |
| --- | --- |
| *Message Type* | COSMAS |
| *Receiver Port* | <Enter the technical Name of the created port> |
| *Output Mode* |  |
| *Transfer IDoc Immed.* | X |
| *Basic Type* | COSMAS01 |
| *Cancel Processing After Syntax Error* | X |

1. Save your entries.
2. In your Employee Central Payroll system, access the following transaction:

| **Transaction Code** | WE20 |
| --- | --- |

1. On the *Partner profiles s*creen, select *Partner Type LS* in the navigation panel.
2. Choose *Create* and make the following entries:

| **Field Name** | **Value** |
| --- | --- |
| *Partner No.* | <Enter the ID for your partner no. Your ALE partner is an SAP system that is addressed by your system (using RFC), in this case the SAP Finance, for example QI1CLNT600> |
| *Partn. Type* | LS |

1. On *Post processing: permitted agent* tab, specify the job (person or group of people) to be notified if processing errors occur.
2. In the *Inbound parmtrs.* Section, choose *Create Inbound Parameter*.
3. On the *Partner profiles: Inbound parameters* screen in section *Inbound options*, make the following entries:

| **Field Name** | **Value** |
| --- | --- |
| *Message Type* | COSMAS |
| *Process Code* | COSM |
| *Cancel Processing After Syntax Error* | X |
| *Processing by Function Module* |  |
| *Trigger Immediately* | X |

1. Save your entries.

### Running Initial Distribution

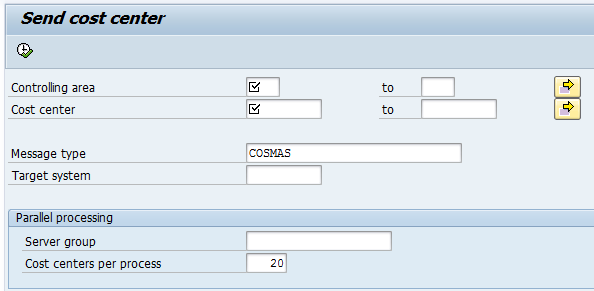
1. In your SAP Finance system, use one of the following navigation options:

| **Transaction code** | BD16 |
| --- | --- |
| **Menu Path** | *SAP Menu* →*Tools* → *ALE* → *Master Data Distribution* → *Accounting* → *Cost Center* → *Master Data* → *Send* |

1. On the *Send cost center* screen, enter the following entries:

| **Field Name** | **Value** |
| --- | --- |
| *Controlling area* | <Enter the controlling area you want to distribute> |
| *Cost Center* | <Select your cost centers you want to distribute> |
| *Message Type* | COSMAS |
| *Target system* | <Select the RFC connection to your Employee Central Payroll system> |

1. Choose *Execute*.



### Defining Job for Delta Distribution

To schedule the background job, you need to create a variant of ABAP program *RBDMIDOC* first.

1. Use one of the following navigation options:

| **Menu Path** | *SAP Menu* → *Tools* → *ABAP Workbench* → *Development* → *ABAP Editor* |
| --- | --- |
| **Transaction code** | SE38 |

1. On the *ABAP Editor: Initial Screen*, enter RBDMIDOC in the *Program* field and choose *Execute*. On the *Creating IDoc Type from Change Pointers* screen, enter the following value:

| **Field Name** | **Value** |
| --- | --- |
| *Message Type* | COSMAS |

1. Choose *Save as Variant*… to create a new variant.
2. On the *Variant Attributes* screen, enter the following values:

| **Field Name** | **Value** |
| --- | --- |
| *Variant Name* | YK\_COSMAS\_ECPY |
| *Description* | <Enter a description for the variant> |

1. Save your entries. A system message confirms the creation.
2. To schedule the job, use one of the following navigation options:

| **Menu Path** | *SAP Menu* → *System* → *Services* → *Jobs* → *Define Job* |
| --- | --- |
| **Transaction Code** | SM36 |

1. On the *Define Background Job* screen, proceed as follows:
2. Choose *Define Job using Wizard* (**Ctrl+F1**).
3. On the *Create a Job* dialog box, choose *Continue*.
4. On the *General Job Information* dialog box, make the following entries:

| **Field Name** | **Value** |
| --- | --- |
| *Job Name* | YK\_CC\_ALE\_DELTA\_PY |
| *Job Class* | C – Low priority |
| *Job Status* | Scheduled |
| *Target Server* |  |

1. Choose *Continue*.
2. In the *Job-Definition: Job step* dialog box, select *ABAP program step* and choose *Continue*.
3. In the *ABAP program step* dialog box, make the following entries:

| **Field Name** | **Value** |
| --- | --- |
| *ABAP program name* | RBDMIDOC |
| *Variant* | YK\_COSMAS\_ECPY |
| *Execution language* | EN |

1. Choose *Continue*.
2. In the *Multi-step option* dialog box, choose *Continue*.
3. In the *Job Definition: Start conditions* screen, choose *Immediately*. Then choose *Continue*.
4. In the *Def. of start immediately* dialog box, select check the *Period* checkbox in the *Periodic* *jobs* section and choose *Continue.*
5. In the *Period definition* dialog box, choose *None of the Above*.
6. Choose the *Other Periods* button.
7. In the *Other Period* dialog box, schedule the service for a convenient time interval.
8. Choose *Create*.
9. Choose *Continue*.
10. In the *Set job* dialog box, choose *Complete* to finish the setup.