

## Integration of SAP SRM and SAP Sourcing 10.0



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# Document History



## Caution

Before you start the implementation, make sure that you have the most recent version of this documentation. You can find the most recent version on SAP Service Marketplace at [service.sap.com/eso](http://service.sap.com/eso).

The following table provides an overview of the most important document changes.

Version	Date	Description
1.0	2014-06-19	Initial Version

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# 1 Introduction

To deliver a closed-process loop and provide additional value to SAP Sourcing functionality, you can integrate SAP Sourcing On-Premise 10.0 with SAP ECC and SAP SRM Business Suite components.

You can integrate SAP Sourcing CLM with SAP SRM Central Contract for complete end-to-end contract management capabilities. SAP Sourcing CLM provides legal contracting functionality, while SAP SRM includes operational features.

This guide assumes that you are using SAP ERP as the source of master data, and that this master data will be transferred to SAP Sourcing and SAP SRM. This ensures consistent master data between all three applications, which is necessary for successful integration.

## Prerequisites

### Mandatory Components

The following table shows the mandatory components for the standard integration scenarios.

Table 2: Mandatory Components for Standard Integration Scenarios

System	Release
SAP SRM	7.0
SAP Sourcing OnPremise	10.0
SAP NetWeaver Process Integration (SAP NetWeaver PI)	7.0 or 7.1 or higher
SAP ERP	6.0

The standard SAP SRM and SAP ERP integration components are delivered with support packages. The following two tables specify the minimum support packages required for integration with SAP Sourcing.

Table 3: SAP SRM Release and Support Package

SAP SRM Release	Support Package
SAP SRM 7.0	SP 02 or greater
SAP SRM 7.0 enhancement package 1	SP 03 or greater
SAP SRM 7.0 enhancement package 2	SP 01 or greater

The standard SAP SRM integration is delivered with through an add-on component called ESOSRMINT 100: Add-On Installation.

You can download this add-on from SAP Service Marketplace at [service.sap.com/swdc](http://service.sap.com/swdc) ► SAP Software Download Center ► Installations and Upgrades ► A - Z Index ► S ► SAP SOURCING / CLM ► SAP SOURCING 10.0 / CLM 10.0 ► Installation ► Integration Comp. for SAP Sourcing ►.

For information about versions of SAP ERP that are supported for integration with SAP Sourcing and SAP SRM, see the [Configuration Guide for Integration of SAP ERP and SAP Sourcing 10.0](#) and SAP Note [1969334](#).

## Required Experts

You must provide the following experts:

- SAP NetWeaver PI expert or consultant to carry out the required changes in SAP NetWeaver PI.
- SAP SRM expert or consultant to carry out the required changes in SAP SRM.
- SAP ERP expert or consultant to carry out the required changes in SAP ERP.
- SAP Sourcing Service Delivery Consultant

## Implementation Requirements

You must implement the information contained in the following SAP Notes before beginning the integration process:

- SAP Note [1551800](#): SAP Sourcing Integration with SAP SRM Central Contracts.  
This note includes corrections related to metadata management and the display of additional fields in the Contract user interface.
- SAP Note [1609208](#): SAP Sourcing / SAP SRM Integration.  
This note includes corrections related to the processing of incoming XML messages from SAP Sourcing.
- SAP Note [1598641](#): SAP Sourcing Integration with SAP SRM Central Contracts.  
Additional information to SAP Note [1551800](#).
- SAP Note [1651629](#): Header Condition Does Not Get Deleted  
This note describes issues related to the removal of contract header conditions.
- SAP Note [1898876](#): SAP Sourcing Integration with SAP SRM Central Contracts  
This note contains manual steps regarding SAP Sourcing CLM integration with SAP SRM, whereby SAP Sourcing Master Agreements can be replicated to SAP SRM as Central Contracts.
- SAP Note [1904324](#): SAP Sourcing Integration with SAP SRM Central Contracts  
This note contains changes related to tooltips for external contract fields.
- SAP Note [1904310](#): SAP Sourcing Integration with SAP SRM Central Contracts  
This note contains procedures to fix a code base mismatch between SRM releases.

## Implementation Recommendations

SAP recommends that you use the highest version of SAP NetWeaver Process Integration (PI). Currently this is SAP NetWeaver PI 7.4. For more information, see SAP Note [1515223](#) and SAP Note [1388258](#).

### Note

Starting with SAP NetWeaver Process Integration (PI) 7.3, SAP provides a new installation option called Advanced Adapter Engine Extended (AEX). Because AEX is based on AS Java, it is easier to install, maintain, and requires less memory and data storage than a full installation of SAP NetWeaver PI. For more information about AEX, go to [help.sap.com/nw73](http://help.sap.com/nw73). In the **Application Help** section, click the **English** link associated with **SAP Library**. When the library opens in a new browser, click **SAP NetWeaver Process Integration** (left-pane). Click **Installation and Connectivity Options** in the **Installation Options** section, then click the **Connectivity Options Using Advanced Adapter Engine Extended** link.

SAP Note [1573180](#) also provides additional information about AEX.



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## 2 How To Use This Guide

To integrate SAP Sourcing with your business system, follow the procedures in this guide in the order in which they are presented. Procedures described later in the guide often depend on the completion of procedures that come earlier. Also, many procedures list as Prerequisites those procedures that must be completed before continuing the configuration.

This guide indicates which procedures are required for specific configuration scenarios. Skip procedures not necessary for the particular scenarios you want to configure.

In general, all the procedures necessary for a particular scenario are grouped as subtopics for that scenario, except where indicated. For example, in order to complete the procedure for topic 4.1, it is necessary to complete, not only 4.1, but also, 4.1.1, 4.1.2, etc.

## 3 Basic Configuration of Integrated Systems

### 3.1 Basic Configuration in SAP Sourcing

This chapter describes the SAP Sourcing configuration steps you must perform to ensure successful integration with SAP SRM.

#### 3.1.1 Create System Property `is_sapint_installed`

The system property `is_sapint_installed` indicates whether integration with SAP ERP is enabled for this SAP Sourcing system.

##### Procedure

###### Note

An SAP Sourcing expert must perform this procedure.

1. Log on to SAP Sourcing with any user that has access to enterprise-level system properties.
2. Select [Setup](#).
3. On the [System setup](#) tab, locate the Configuration section and click [System Properties](#).
4. Select [New](#).
5. Under [Set sapintegration](#), create the property `is_sapint_installed` with the value `TRUE`.  
If the property already exists, but has the value `FALSE`, change the value to `TRUE`.

#### 3.1.2 Create System Property `is_sapsrmint_installed`

The system property `is_sapsrmint_installed` indicates whether integration with SAP SRM is enabled for this SAP Sourcing system.

##### Procedure

###### Note

An SAP Sourcing expert must perform this procedure.

1. Log on to SAP Sourcing with any user that has access to enterprise-level system properties.
2. Choose [Setup](#).



3. On the [System Setup](#) tab, find the [Configuration](#) section and click [System Properties](#).
4. Under [Set sapintegration](#), create the property `is_sapsrmint_installed` with the value `TRUE`.  
If the property already exists, but has the value `FALSE`, change the value to `TRUE`.

### 3.1.3 Define System Properties for SAP NetWeaver Process Integration Namespace

#### Note

An SAP Sourcing expert must perform this procedure.

In this step, you define the SAP NetWeaver Process Integration (SAP NetWeaver PI) namespace under which the integration content resides in SAP NetWeaver PI.

#### Procedure

1. Log on to SAP Sourcing with any user that has access to enterprise-level system properties.
2. Choose [Setup](#).
3. On the [System Setup](#) tab, find the [Configuration](#) section and click [System Properties](#).
4. Choose [New](#).
5. Create a system property as shown in the following table. Then, select a context and save your entries.

Table 4

Field	Value
Set	sapintegration
Name	ExportHandler.outertag.attribute.name
Value	xmlns:ns0

6. Create another system property as shown in the following table. Then, select a context and save your entries.

Table 5

Field	Value
Set	sapintegration
Name	ExportHandler.outertag.attribute.value
Value	<a href="http://sap.com/xi/ESourcing/SRMJS/OP">http://sap.com/xi/ESourcing/SRMJS/OP</a>

### 3.1.4 Verify System Property `AgreementExportHandler.srm.interface.export`

The system property `AgreementExportHandler.srm.interface.export` indicates the name of the Message Interface that is used in the Agreement integration scenario between SAP Sourcing and SAP SRM.

## Procedure

### Note

An SAP Sourcing expert must perform this procedure.

1. Log on to SAP Sourcing with any user that has access to enterprise-level system properties.
2. Select [Setup](#).
3. On the [System Setup](#) tab, locate the configuration section and click [System Properties](#).
4. Search for the following System property AgreementExportHandler.srm.interface.export under [Set sapintegration](#).
5. If the system property does not yet exist, choose [New](#) to create the property with the following values:

Table 6

Field	Value
Set	sapintegration
Name	AgreementExportHandler.srm.interface.export
Value	MI_ES_Agreement

## 3.1.5 Edit Integrated System Configuration for SAP SRM Integration

## Procedure

### Note

An SAP Sourcing expert must perform this procedure.

### Note

You must import integrated system configuration information from the Enterprise Workbook before performing the steps in this section.

If you have already imported the Enterprise Workbook , maintain it as described below.

This object contains customer-specific settings for the integration of SAP SRM and SAP Sourcing.

1. Log on to SAP Sourcing with any user that has access to this object.
2. Select [Setup](#).
3. In the [System Setup](#) tab, locate the Integration section and click [Integrated System Configuration](#).
4. Click the SRM [Integrated System Configuration](#) object.
5. Select Edit.
6. Maintain the integrated system configuration as required. The table below provides information about some of the fields in this section. The values for the other fields depend on the integration configuration.

## **i** Note

The service name and namespace in the SAP Sourcing integration configuration object are case-sensitive. Make sure you use the same case in both SAP NetWeaver Process Integration (SAP NetWeaver PI) and SAP Sourcing.

Table 7: Fields and Values for Integrated System Configuration

Field	Value
System Type	SRM
Import Error Type	E, A
Import Success Type	S
Display Name	SRM Integrated System Configuration
PI URL (not applicable for SAP PI AEX) PI URL for Dual Stack PI System (using Plain HTTP adapter)	<code>http://&lt;PI_host&gt;:&lt;http_port&gt;/sap/xi/adapter_plain?namespace=http://sap.com/xi/ESourcing/SRMJS/OP&amp;service=&lt;name_of_SAP_Sourcing_business_system_configured_in_PI&gt;&amp;scheme=&amp;QOS=BE&amp;sap-client=&lt;client_number_of_PI_system&gt;&amp;sap-language=&lt;your_language&gt;</code>  <b>i</b> Note The Interface name will be provided by the SAP Sourcing application.
PI_URL (SAP NetWeaver PI AEX only - Java HTTP adapter)	<code>http://&lt;PIHost&gt;:Port/HttpAdapter/HttpMessageServlet?interfaceNamespace=http://sap.com/xi/ESourcing/SRMJS&amp;senderService=&lt;name_of_SAP_Sourcing_business_system_configured_in_PI&gt;&amp;senderParty=&amp;qos=BE</code>  <b>i</b> Note The Interface name will be provided by the SAP Sourcing application.
Use HTTP header authentication	Selection of this option is mandatory.
PI User (HTTP header authentication on SAP NetWeaver PI)	Specify the user name you use to connect to the SAP NetWeaver PI system.
PI Password	Enter the password for the USER/sap-user you specified to connect to the SAP NetWeaver PI system from the SAP Sourcing/CLM system.

## 3.1.6 Define Default Language Preferences for Localized Resource Strings

### Note

An SAP Sourcing expert must perform this procedure.

Each localized resource string has a default language value that is displayed if no specific language value is provided. Because SAP Sourcing is delivered in English, the default language in the standard system is English. If you want to use other languages, you can install language packs for those languages. If you install a language pack for another language, your custom localized resource strings may have default values in that language, rather than in English.

When integrating SAP Sourcing with SAP SRM and SAP ERP, you can export certain localized fields from SAP SRM and SAP ERP to SAP Sourcing. If one of these fields has localized resource strings for multiple languages, all of the localized resource strings are added to the object that is imported to SAP Sourcing, provided that the language packs for those languages have been installed. (SAP Sourcing accepts only localized resource strings for languages whose language packs have been installed.) In the standard system, SAP Sourcing requires each inbound localized resource string to have a value in the default language English. Because it is not always possible to guarantee that SAP SRM or SAP ERP will provide a value in English for each localized resource string, you can use the integrated system configuration object in SAP Sourcing to define a ranking of default languages, and thus determine the default language. The integrated system configuration object is an enterprise-level configuration object with a series of settings for integration.

This functionality is available only for master data that is imported from SAP SRM and SAP ERP; it is not available for standard CSV imports.



### Example

In the integrated system configuration object, you define a ranking of French, Spanish, English. The import file from both SAP SRM and SAP ERP respectively contains values in Spanish and English. The value in Spanish is therefore the default language value because a value in French was not provided.

If language values are provided for language packs that are installed in SAP Sourcing, but the languages are not included in the ranking in the integrated system configuration object, the import will fail with an error indicating that a default language value was not provided.

## Procedure

### Note

Integrated System Configuration for SAP ERP Integration must already exist in SAP Sourcing before you can perform the following procedure.

1. Log on to SAP Sourcing with any user that has access to the integrated system configuration object.
2. Choose [Setup](#).
3. On the [System Setup](#) tab, find the [Integration](#) section, click the [Integrated System Configuration](#) link, and then click [ERP Integrated System Configuration](#) to edit. Otherwise, click [New](#) to create an ERP Integrated System Configuration.

4. On the [System Setup](#) tab, find the [Integration](#) section, click the [Integrated System Configuration](#) link, and then click [SRM Integrated System Configuration](#) to edit. Otherwise, click [New](#) to create an SRM Integrated System Configuration.
5. Add references to one or more language packs that are installed in your system. You do this by choosing [Add Language Pack](#).
6. Rank the languages as required. You do this by choosing [Reorder List](#) and then dragging and dropping the languages to the required order of preference. If the list is empty, SAP Sourcing defaults to English.

### 3.1.7 Edit Integrated Document Configuration for SAP SRM Integration

#### Note

An SAP Sourcing expert must perform this procedure.

The integrated document configuration (IDC) contains enterprise-scoped settings for the integration of SAP SRM and SAP Sourcing.

Edit the IDC object only if you have imported the IDC, and want to customize. If you have imported the enterprise workbook, you simply need to edit the IDC object as described below. If you have not imported this workbook, you must import the IDC object and maintain it as described below.

#### Procedure

1. Log on to SAP Sourcing as a user in the enterprise context with permission to create and edit the object.
2. Choose [Setup](#).
3. On the [System Setup](#) tab, find the [Integration](#) section and click [Integrated Document Configuration](#).
4. Click the SRM IDC object.
5. Choose [Edit](#).
6. Maintain the IDC object as shown in the following table:

Table 8: Fields and Values for Integrated Document Configuration

Field	Value
External ID	srn_idc
System Type	SRM
Display Name	SRM Integrated Document Configuration
Excluded/Included Attribute List ***	This is a list of zero or more exportable business objects and an excluded/included attribute list for each. You use it to control which fields are rendered in an export.

\*\*\* To customize attributes that you want to export for each class, click [Class Name](#) in the [Excluded/Included Attribute List](#) table. If the class you want to customize is not in the list, click [Add](#) to add a class.

## More Information

For information about including additional fields as integrated fields, or excluding fields, see SAP Library for SAP Sourcing on SAP Help Portal at [help.sap.com](https://help.sap.com) ► SAP Business Suite ► SAP Sourcing ►, and select your SAP Sourcing release. Under the section *Help for Purchasers*, select your preferred language and choose ► *Integration with SAP SRM* ► *Setup for Integrated Documents* ► *Managing Integrated Fields in SAP Sourcing*. ►

## 3.1.8 Create Business System for SAP ERP in SAP Sourcing

### Prerequisites

The SAP ERP system must exist before you create it as a business system in SAP Sourcing. A business system represents an SAP ERP system that is integrated with SAP Sourcing.

#### Note

If you have already imported the Enterprise Workbook, maintain it as described below.

#### Note

An SAP Sourcing expert must perform this procedure in collaboration with your SAP ERP expert.

### Procedure

1. Find the logical system name of the SAP ERP system that you want to integrate with SAP Sourcing. You do this as follows:
  1. Log on to the SAP ERP system that you are integrating with SAP Sourcing.
  2. In Customizing for *IDoc Interface / Application Link Enabling (ALE)* (transaction *SALE*), choose ► *Basic Settings* ► *Logical Systems* ► *Assign Logical System to Client* ►.
  3. Select the client representing the integrated SAP ERP system and choose *Details*.
  4. Note down the value of the *Logical System* field. Generally, it is in the format <System ID>CLNT<Client Number>.

#### Note

Keep this value safe because you will need it in steps 2 and 3 below.

2. Define the business system in SAP Sourcing as follows:
  1. Log on to SAP Sourcing as a user with permission to create business systems.
  2. Choose *Setup*.
  3. On the *System Setup* tab, find the *Integration* section and click *Business Systems*.
  4. Choose *New*.
  5. Enter the required information as shown in the following table.

Table 9

Field	Value
External ID	Enter the logical system name of the SAP ERP system. This is the value that you noted down in step 1.
Name	Select a language from the drop-down menu and enter a name for the system.
Description	Enter a brief description of the system.
System Type	Select ERP
Release	Specify the SAP ERP release and enhancement package that you want to integrate with SAP Sourcing. The default value is SAP ERP 6.0. It is particularly important to change this to your release and enhancement package if you want to integrate service line items in SAP Sourcing with SAP ERP.

6. Save your entries.

### 3.1.9 Create Business System for SAP SRM in SAP Sourcing

#### Prerequisites

The SAP SRM system must exist before you create it as a business system in SAP Sourcing. A business system represents an SAP SRM system that is integrated with SAP Sourcing.

#### Procedure

##### **i** Note

If you have already imported the Enterprise Workbook, maintain it as described below.

##### **i** Note

An SAP Sourcing expert must perform this procedure in collaboration with your SAP SRM expert.

- Find the logical system name of the SAP SRM system that you want to integrate with SAP Sourcing. You do this as follows:
  - Log on to the SAP SRM system that you are integrating with SAP Sourcing.
  - In [Customizing for IDoc Interface / Application Link Enabling \(ALE\)](#) (transaction SALE), choose [Basic Settings](#) [Logical Systems](#) [Assign Logical System to Client](#).
  - Select the client representing the integrated SAP SRM system and choose [Details](#).
  - Note down the value of the [Logical System](#) field. Generally, it is in the format <SystemID>CLNT<Client Number>.



### Note

Keep this value safe because you will need it in steps 2 and 3 below.

2. Define the business system in SAP Sourcing as follows:

1. Log on to SAP Sourcing as a user with permission to create business systems.
2. Choose [Setup](#).
3. On the [System Setup](#) tab, find the Integration section and click [Business Systems](#).
4. Choose [New](#).
5. Enter the required information as shown in the following table.

Table 10

Field	Value
External ID	Enter the logical system name of the SAP SRM system. This is the value that you noted down in step 1.
Name	Select a language from the drop-down menu and enter a name for the system.
Description	Enter a brief description of the system.
System Type	Select SRM.

6. Save your entries

## 3.2 Basic Configuration in SAP ERP

This section describe basic configuration steps in SAP ERP that you must complete in order to successfully integrate SAP SRM with SAP Sourcing.

### 3.2.1 Define Logical System for SAP Sourcing in SAP ERP

#### Note

An SAP ERP expert must perform this procedure.

This step creates a logical system to represent SAP Sourcing in the SAP ERP system.

#### Note

Logical systems are defined cross-client.

### Procedure

1. In transaction [BD54](#), choose [New Entries](#).
2. Create a logical system that identifies the SAP Sourcing system, as shown in the following table:

Table 11: Fields and Values for Logical System

Field	Value	Example
Logical System	<Logical System Name>	SOURCING
Name	SAP Sourcing Logical System	

## 3.2.2 Create Cross-System Company Codes and Business Areas

### **i** Note

An SAP ERP expert must perform this procedure.

To avoid errors in the distributed environment, you must name specific global organizational units the same in all systems involved in distribution. To use Application Link Enabling (ALE), you must assign local organizational units to the following global organizational units in each of these systems to ensure that they are used consistently in the distributed environment.

- Cross-system company codes
- Cross-system business areas

Cross-system company codes are used in distribution in financial accounting. There is one central system for each cross-system company code in the distributed environment. You must assign the local company codes to the cross-system company codes in each system involved in distribution.

When an IDoc with company code dependent data is sent, the company code is replaced with the cross-system company code in all company code fields. When the IDoc is received, the reverse conversion takes place in the target system.

Cross-system business areas are used in distribution in financial accounting. You must assign the local business areas to the cross-system business areas in each system involved in distribution.

When an IDoc with business area data is sent, the business area is replaced with the cross-system business area in all business area fields. When the IDoc is received, the reverse conversion takes place in the target system.

## Procedure

### Create Cross-System Company Codes

1. In transaction **SALE**, choose:
  - (SAP ERP 6.0 and above): [Modelling and Implementing Business Processes](#) [Global Organizational Units](#) [Cross-System Company Codes](#)
2. In the dialog box, select **Cross-System Company Codes** and click **Choose**.
3. Choose **New Entries**.
4. Enter the relevant global company codes and choose **Save**.
5. Choose **Back**.
6. Select **Assign Cross-System Company Code to Chart of Accounts** and click **Choose**.
7. Enter a chart of accounts for each global company code and choose **Save**.
8. Choose **Back**.
9. Select **Assign Company Code to Cross-System Company Code** and click **Choose**.
10. Enter a global company code for each organizational company code and choose **Save**.

### Note

You can assign only one company code to each global company code.

#### Create Cross-System Business Areas

1. In transaction `SALE`, choose:
  - (SAP ERP 6.0 and above): [► Modelling and Implementing Business Processes ► Global Organizational Units ► Cross-System Business Areas ►](#)
2. In the dialog box, select [Cross-System Business Areas](#) and click [Choose](#).
3. Choose [New Entries](#).
4. Enter the relevant cross-system business areas and choose [Save](#).
5. Choose [Back](#).
6. Select [Assign Business Area to Cross-System Business Area](#) and click [Choose](#).
7. Enter a cross-system business area for each organizational business area and choose [Save](#).

### Note

You can assign only one business area to each cross-system business area.

## 3.3 Basic Configuration in SAP NetWeaver Process Integration

This section describe basic configuration steps in SAP NetWeaver PI that you must complete in order to successfully integrate SAP SRM with SAP Sourcing.

### Note

If you are using the SAP NetWeaver PI 7.3 Advanced Adapter Engine Extended (AEX) installation option, follow the instructions in this guide and note the sections/tasks that you can skip. Because SAP NetWeaver PI 7.3 Advanced Adapter Engine Extended (AEX) does not support configurations using “Integration Scenarios, you must manually create communication channels and integrated configuration scenarios. See [Configuring AEX Communication Channels and Integrated Configuration \[page 113\]](#) for the setup instructions.

Also, if you are using the SAP NetWeaver PI 7.3 Advanced Adapter Engine Extended (AEX) installation option, you cannot use IDoc (IE) or HTTP (IE) adapter types in communication channels. Instead you must use IDoc (AAE) and HTTP (AAE) adapter types. For more information, go to [help.sap.com/nw73](http://help.sap.com/nw73). In the [Application Help](#) section, choose the [English](#) link associated with SAP Library. When the library opens in a new browser, choose [SAP NetWeaver Process Integration](#) (left pane). In the [Installation Options](#) section, choose [Installation and Connectivity Options](#), then choose the [Connectivity Options Using Advanced Adapter Engine Extended](#) link.

SAP Note [1573180](#) provides additional information about AEX.

## 3.3.1 Set Up System Landscape Directory

### Procedure

#### **i** Note

An SAP NetWeaver Process Integration (PI) expert or consultant must perform this procedure.

1. In the process integration tools (transaction `SXMB_IFR`), log on to the System Landscape Directory (SLD).
2. Import the Component Repository (CR) content into the SLD. For instructions, see SAP Note [669669](#).
3. Create a new Web Application Server (Web AS) ABAP technical system to register the SAP ERP system in the SLD. For instructions, see SAP Note [584654](#).
4. Create a new Web Application Server (Web AS) ABAP technical system to register the SAP SRM system in the SLD. For instructions, see SAP Note [584654](#).
5. Create a new Web AS Java technical system to register the SAP Sourcing system in the SLD. For more information, see the following:
  - Click [Help](#) and navigate to ► [Working with SLD](#) ► [Technical Systems](#) ► [Creating New Web AS Java Technical Systems](#) ►.
  - SAP Note [673144](#)
6. Create a business system for the SAP ERP system as shown in the following table:

Table 12

Field	Value	Example
Business System	Enter the business system for the SAP ERP system	QV5_340
Role	Application System	
Related Integration Server	SAP NetWeaver Process Integration (SAP NetWeaver PI) system that is defined in the SLD	INTEGRATION_SERVER_X7X
Technical System	Technical system that you defined in step 3	
Client	Client of the SAP ERP system	
Logical System Name	Logical system of the SAP ERP system <SID>CLNT<Client Number>	QV5CLNT340

7. Create a business system for the SAP SRM system as shown in the following table:

Table 13

Field	Value	Example
Business System	Enter the business system for the SAP SRM system	E9U_300
Role	Application System	
Related Integration Server	SAP NetWeaver Process Integration (SAP NetWeaver PI) system that is defined in the SLD	INTEGRATION_SERVER_X7X

Field	Value	Example
Technical System	Technical system that you defined in step 4	
Client	Client of the SAP SRM system	
Logical System Name	Logical system of the SAP SRM system <SID>CLNT<Client Number>	E9UCLNT300

8. Create a business system for the SAP Sourcing system as shown in the following table:

Table 14

Field	Value	Example
Business System	Enter the business system for the SAP Sourcing system	SOURCING  <b>i Note</b> This is the value you enter for the <name_of_SAP_Sourcing_business_system_configured_in_PI> part of the PI URL described in <a href="#">Edit Integrated System Configuration for SAP SRM Integration [page 10]</a> .
Role	Application System	
Related Integration Server	SAP NetWeaver PI system that is defined in the SLD	INTEGRATION_SERVER_X7X
Technical System	Technical system that you defined in step 5	
Logical System Name	Logical system of the SAP Sourcing system as defined in <a href="#">Define Logical System [page 16]</a>	SOURCING

9. To retrieve the newly created business system, clear the SLD data cache by logging on to the Integration Directory (SAP NetWeaver PI 7.0x) or Integration Builder (SAP NetWeaver PI 7.1 or higher) and choosing ► **Environment** ► **Clear SLD Data Cache** ►.

## 3.3.2 Define RFC Destination and Port

### Procedure

#### **i Note**

An SAP NetWeaver Process Integration (PI) expert must perform this procedure.

#### **i Note**

Skip this section if you are using SAP NetWeaver PI AEX 7.3.

1. In the SAP NetWeaver PI system, specify the RFC destination using transaction `SM59`, as listed in the following table:

Table 15: Parameters and Values for RFC Destination

Field	Value	Example
RFC Destination	<SID of SAP ERP system>CLNT<client number of SAP ERP system>	QV5CLNT340
Connection Type	3 (For connection to ABAP systems)	
Target Host	Host name of SAP ERP system	
System Number	System number of SAP ERP system	
Language	Details to connect to SAP ERP system	
Client	Details to connect to SAP ERP system	
User	Details to connect to SAP ERP system	
Password	Details to connect to SAP ERP system	

2. In the SAP NetWeaver PI system, define the port for SAP NetWeaver PI to receive the SAP ERP IDocs. You do this using transaction `IDX1`, as shown in the following table:

Table 16: Parameters and Values for Port

Field	Value	Example
Port	SAP<SID of SAP ERP system>	SAPQV5
Client	Client of SAP ERP system	340
Description	RFC Destination Pointing to SAP ERP System	
RFC Destination	RFC destination that you created in step 1	QV5CLNT340

3. In the SAP NetWeaver PI) system, specify the RFC destination using transaction `SM59`, as listed in the following table:

Table 17: Parameters and Values for RFC Destination

Field	Value	Example
RFC Destination	<SID of SAP SRM system>CLNT<client number of SAP SRM system>	E9UCLNT300
Connection Type	H	HTTP connection to ABAP systems.
Target System	SID of SAP SRM system	E9U
Target Host	Target Host of the SAP SRM system	uxcie9u.wdf.sap.corp
Language	Details to connect to SAP SRM system	
Client	Details to connect to SAP SRM system	
User	Details to connect to SAP SRM system	



Field	Value	Example
Password	Details to connect to SAP SRM system	

### 3.3.3 Import Process Integration Content to Integration Repository


#### Procedure


##### Note

An SAP NetWeaver Process Integration (PI) expert must perform this procedure.


1. In the process integration tools (transaction `SXMB_IER`), log on to the Integration Repository (SAP NetWeaver PI 7.0x) or Enterprise Services Builder (SAP NetWeaver PI 7.1 or higher).
2. Download the SAP ERP interface definitions from SAP Service Marketplace. Choose the ESR package corresponding to your ERP system. For example, for ERP 603 (6.0 EHP 3), use the following path:  
[service.sap.com/swdc](http://service.sap.com/swdc) ► SAP Software Download Center ► SAP Software Download Center ► Support Packages and Patches ► Browse Our Download Catalog ► SAP Content ► ESR Content (XI Content) ► XI CONTENT SAP\_APPL ► XI CONTENT SAP\_APPL 603 .
3. Download the SAP SRM interface definitions from SAP Service Marketplace at [service.sap.com/swdc](http://service.sap.com/swdc) ► SAP Software Download Center ► Support Packages and Patches ► Browse Our Download Catalog ► SAP Content ► ESR Content (XI Content) ► XI CONTENT ESO SRM INT ► XI CONTENT ESO SRM INT 1.0 .



##### Note

The SAP SRM interface definitions are also available at [service.sap.com/swdc](http://service.sap.com/swdc) SAP Software Download Center ► Support Packages and Patches ► Browse our Download Catalog ► SAP Application Components ► SAP SOURCING / CLM ► SAP SOURCING 10.0 / CLM 10.0 ► Comprised Software Component Versions ► XI CONTENT ESO SRM INT 1.0 .

4. Download the SAP Sourcing interface definitions and mapping objects from SAP Service Marketplace at [service.sap.com/swdc](http://service.sap.com/swdc) SAP Software Download Center ► Support Packages and Patches ► Browse our Download Catalog ► SAP Content ► ESR Content (XI Content) ► XI CONTENT ESC SRMJSERVEROP ► XI CONTENT ESC SRMJSRV OP 10.0 .

##### Note

The SAP Sourcing interface definitions and mapping objects are also available at [service.sap.com/swdc](http://service.sap.com/swdc) SAP Software Download Center ► Support Packages and Patches ► Browse our Download Catalog ► SAP Application Components ► SAP SOURCING / CLM ► SAP SOURCING 10.0 / CLM 10.0 ► Comprised Software Component Versions ► XI CONTENT ESC SRMJSRV OP 10.0 .

5. If you are using SAP NetWeaver PI 7.1 or higher, download the latest support package of XI CONTENT SAP\_BASIS 7.00, 7.01, or 7.02 from SAP Service Marketplace at [service.sap.com/swdc](http://service.sap.com/swdc) ► SAP Software Download Center ► Support Packages and Patches ► Browse Our Download Catalog ► SAP Content ► ESR Content (XI Content) ► XI CONTENT SAP\_BASIS ► XI CONTENT SAP\_BASIS 7.xx .
6. Import the downloaded content by choosing ► Tools ► Import Design Objects .



## 3.3.4 Configure Integration Scenario

This section describes how to create an integration scenario that includes only basic configurations. Additional configurations specific to each scenario are located in other sections of this guide.

### Prerequisites

- [Basic Configuration in SAP NetWeaver Process Integration \[page 18\]](#)

### Procedure







#### Note

An SAP NetWeaver Process Integration (PI) expert must perform this procedure.

#### Note

Skip this section if you are using SAP NetWeaver PI 7.3 AEX. You must manually create the integrated configuration scenarios. See [Configure Integrated Scenarios for SAP NetWeaver PI 7.3 AEX \[page 24\]](#) for instructions about basic configuration of Integration Scenarios for SAP NetWeaver PI 7.3 AEX.

In the following procedure, there are some differences between SAP NetWeaver PI 7.0x and SAP NetWeaver PI 7.1 or higher. These differences are indicated by [SAP NetWeaver PI 7.0x](#) or [SAP NetWeaver PI 7.1 or higher](#).

1. In the process integration tools (transaction `SXMB_IFR`), log on to the Integration Directory (SAP NetWeaver PI 7.0x) or Integration Builder (SAP NetWeaver PI 7.1 or higher).
2. SAP NetWeaver PI 7.0x: Choose  [Tools](#)  [Transfer Integration Scenario from Integration Repository](#) .
- SAP NetWeaver PI 7.1 or higher: Choose  [Tools](#)  [Apply Model from ES Repository](#) .
3. SAP NetWeaver PI 7.0x: In the dialog box that appears, click the input help for the [Name](#) field, choose the integration scenario for this software component (see note below), and choose [Continue](#).
- SAP NetWeaver PI 7.1 or higher: In the dialog box that appears, select [Process Integration Scenario](#), click the input help for the [Name](#) field, choose the integration scenario for this software component (see note below), and choose [Continue](#).

#### Note

The software component is [E-SOURCING SRM JSERVER OP <Release>](#) and the name is [IS\\_SRM\\_ES\\_INTEGRATION](#).

4. If required, change the configuration scenario name and choose [Finish](#), and then choose [Close](#).  
The configurator screen appears.
5. SAP NetWeaver PI 7.0x: In the component view, right-click [SAP ERP ENHANCE PACKAGE – 6.0](#) and choose [Assign Service](#).  
SAP NetWeaver PI 7.1 or higher: In the component view, click [SAP ERP ENHANCE PACKAGE – 6.0](#).
6. SAP NetWeaver PI 7.0x: Click the create icon with the tooltip [Create Services for Business Systems](#).  
SAP NetWeaver PI 7.1 or higher: Click the create icon with the tooltip [Create Business System Components for Business Systems](#).
7. In the wizard that appears, proceed as follows:

1. In step 1 of the wizard, choose [Continue](#).
2. In step 2 of the wizard, choose [Continue](#).
3. In step 3 of the wizard, select the respective business system for ERP 6.0 that is previously defined in the system landscape directory.

#### Note

If the business system for ERP 6.0 is not available in the list of business systems, the business system already exists as a business component. In this case, do the following.

1. Exit the wizard by clicking [Cancel](#).
2. In the model configurator, click the input help for the [Communication Component](#) field.
3. Under [Search Criteria](#), ensure that the [Communication Component Selection](#) attribute has the value [All Business System Components](#).
4. Select the communication component for the business system for ERP 6.0 and choose [Apply](#).
5. Skip steps 4 and 5 below.
4. Deselect the [Create Communication Channels Automatically](#) checkbox.
5. Choose [Finish](#) and then choose [Close](#).
8. SAP NetWeaver PI 7.0x only: In the [Assign Services to Application Components](#) dialog box, choose [Assign](#).
9. Repeat steps 5 to 8 for E-SOURCING / CLM 900 using the business system for SAP SRM that you previously created in [Set Up System Landscape Directory](#). [\[page 19\]](#).
10. SAP NetWeaver PI 7.0x: Select [Settings](#) [Apply Changes And Save Configuration Scenario](#). [▶](#)  
SAP NetWeaver PI 7.1 or higher: Click [Apply](#), and then click [Save](#).

## 3.3.5 Basic Configuration of SAP NetWeaver PI 7.3 AEX

### Procedure

This section describes how to create an integration scenario that only includes basic configurations. Additional configurations specific to each scenario are located in other sections of this guide.

1. In the process integration tools (transaction SXMB\_IFR), log into the SAP Net Weaver PI 7.3 AEX Integration Builder.
2. Import the respective business systems for SAP ERP and SAP Sourcing into the Integration Builder.
3. Create a configuration scenario and save your changes.
4. See [Configuring AEX Communication Channels and Integrated Configuration \[page 113\]](#) and create a Communication Channel and Integrated Configuration for each integration scenario.

## 3.4 Basic Configuration of Master Data from Multiple SAP ERP Systems

#### Note

If you are integrating with only one SAP ERP system, skip this section and go to [Master Data Integration \[page 27\]](#).

---

This section describes how to configure master data from multiple SAP ERP systems.

### 3.4.1 Define Logical System for SAP Sourcing in Each SAP ERP System

#### Procedure

Go to [Define Logical System for SAP Sourcing in SAP ERP \[page 16\]](#), and repeat the steps in that section for every SAP ERP system with which you are integrating SAP Sourcing.

### 3.4.2 Create Cross-System Company Codes and Business Areas for Each SAP ERP System

#### Procedure

Go to [Create Cross-System Company Codes and Business Areas \[page 17\]](#), and repeat the steps in that section for every SAP ERP system with which you are integrating SAP Sourcing.

### 3.4.3 Define Business System for Each SAP ERP System

#### Procedure

#### Note

An SAP ERP expert must perform this procedure in collaboration with an SAP Sourcing expert.

Define a business system in SAP Sourcing for each SAP ERP system that you want to integrate with SAP Sourcing. To do this, follow the steps in [Create Business System for SAP ERP in SAP Sourcing \[page 14\]](#).

### 3.4.4 Register Each SAP ERP System

#### Procedure

#### Note

An SAP NetWeaver Process Integration (PI) expert must perform this procedure.

In the System Landscape Directory (SLD), register each SAP ERP system that you want to integrate with SAP Sourcing. To do this, carry out steps 3 and 5 in [Set Up System Landscape Directory \[page 19\]](#).

## 3.4.5 Define RFC Destination and Port for Each SAP ERP System

### Procedure

#### Note

An SAP NetWeaver Process Integration (PI) expert must perform this procedure.

#### Note

Skip this section if you are using SAP NetWeaver PI AEX 7.3.

Perform steps 1 and 2 in [Define RFC Destination and Port \[page 20\]](#) for each SAP ERP system that you want to integrate with SAP Sourcing.

## 3.4.6 Import Each SAP ERP System from System Landscape Directory to Integration Builder

### Procedure

#### Note

An SAP NetWeaver Process Integration (PI) expert must perform this procedure.

1. In the process integration tools (transaction `SXMB_IFR`), log on to the Integration Builder.
2. Under [Communication Component](#), right-click [Business System](#) and choose [Assign Business System...](#)
3. In the dialog box that appears, choose [Continue](#) [Continue](#), and select the business system that represents the SAP ERP system that you want to integrate with SAP Sourcing.
4. Deselect [Create Communication Channels Automatically](#).
5. Click the value help for the [Add to Scenario](#) field, select the configuration scenario, and choose [Apply](#).
6. Choose [Finish](#).
7. Repeat for each SAP ERP system that you want to integrate with SAP Sourcing.

## 4 Master Data Integration

### 4.1 Integration of SAP ERP Customizing Data

You extract customizing data from SAP ERP, and import it into SAP Sourcing before replicating material or vendor master data from SAP ERP to SAP Sourcing. SAP Sourcing provides SAP ERP reports for extracting data in XML and CSV formats. You import extracted files from these reports directly into SAP Sourcing. This chapter describes the process for extracting customizing data from SAP ERP to SAP Sourcing.

#### 4.1.1 Extract Customizing Data from SAP ERP in CSV Format

##### Procedure

##### Note

An SAP ERP expert must perform this procedure.

To ensure that you can import the unit of measure from the SAP ERP system into SAP Sourcing, extract Unit Category Texts and Unit Categories from your SAP ERP system. The format of the CSV data is specific to the needs of the SAP Sourcing application. You can store the CSV files on an application server or locally. SAP Sourcing unit of measure requires both these objects for the import, and both must only be imported in the same language. Even though it is possible to extract further data, such as the unit of measure and related ISO codes, from the CSV report, SAP recommends not using the CSV report for those purposes. Rather, for those purposes, use the report `BBP_ES_CUSTOMIZINGDATA_EXTRACT` which generates an XML file.

- Unit Category Text (available only as CSV files, one file for each language)
- Unit Category (available only as CSV files, one file for each language)

Extract the data using the program `BBP_ES_CUSTOMIZINGDATA_EXT_CSV`. The extracted data is rendered as a csv document. The format of the csv data is specific to the needs of the SAP Sourcing application. You can store the csv files on an application server or locally. To extract the above data in multiple languages the data needs to be extracted in multiple files, one for each language. For more information about SAP ERP, see Help for SAP ERP.

1. In transaction SE38, enter the name of the report `BBP_ES_CUSTOMIZINGDATA_EXT_CSV` and select F8. In the report selection screen choose the language in which you want to extract the data.
2. Specify whether you want the generated CSV files to be saved on the application server or locally. The objective is to get the files to a location where the importer from the SAP Sourcing application can access them.

As a guideline:

- If you want to schedule the program as a background job, always save the generated csv files on the application server.
  - If you want to execute the program online, you can save the files on the application server or locally.
3. Select the [Customizing](#) objects that you want to extract, and check the file names.
  4. Choose [Execute](#) or schedule the program for execution periodically as needed.

5. Verify that the files are saved in the location that you specified. If you selected [Save on Application Server](#) in step 2, you can use transaction AL11 to check the application server directory.

## 4.1.2 Extract Customizing Data from SAP ERP in XML Format

### Note

An SAP ERP expert must perform this procedure.

Extract the following customizing data from SAP ERP:

### Note

If you have already extracted data for Currency ISO Codes, Currencies, UOM ISO Codes, and Unit of Measure in CSV format, as described in [Extract Customizing Data from SAP ERP in CSV Format \[page 27\]](#), you do not need to extract these data in XML format.

Make sure that Unit Category Text and Unit Category already are imported. Otherwise, the import of the unit of measure might fail.

- Currency ISO codes
- Currencies
- UOM ISO codes
- Unit of measure
- Company codes
- Purchasing organizations
- Regions
- Plants
- Purchasing groups
- Material groups
- Payment terms
- Incoterms
- Vendor account groups

You extract the Customizing data from SAP ERP using the program `BBP_ES_CUSTOMIZINGDATA_EXTRACT` (transaction `BBP_ES_CUST_DOWNLOAD`). The extracted data is rendered as an XML document. The format of the XML data is specific to the needs of the SAP Sourcing application. You can store the XML files on an application server, or locally. For more information about this program, see the program documentation in SAP ERP.

Various Business Add-In (BAI) exits are provided to enhance the standard functionality.

You can use BAI `BADI_BBP_ES_ADDITIONAL_DATA` to enhance or extend the Customizing data during the extraction process.

You can use BAI `BADI_BBP_ES_DOWNLOAD_XML` to define other locations for saving the XML files.

You can use BAI `BADI_BBP_ES_REMOVE_DATA` to exclude fields from the XML files.

### Note

If BAI `BADI_BBP_ES_REMOVE_DATA` is not visible in Customizing for [Integration with Other mySAP.com Components](#) ► [E-Sourcing](#) ► [Business Add-Ins \(BAIs\)](#) , see SAP Note [1458469](#).

You can use BADI\_BBP\_ES\_CHANGE\_DATA to modify fields in the XML files.

#### Note

If BAdI BADI\_BBP\_ES\_CHANGE\_DATA is not visible in Customizing for Integration with Other mySAP.com Components ► E-Sourcing ► Business Add-Ins (BAdIs) ►, see SAP Note [1458469](#).

## Procedure

1. Run the transaction `BBP_ES_CUST_DOWNLOAD`, and enter the languages in which you want to extract the data (for Customizing objects that support multiple languages).
2. Select [Report Version 2](#), and execute.
3. Specify whether you want the generated XML files to be saved on the application server or locally. The objective is to get the files to a location where the importer from the SAP Sourcing application can access them.

As a guideline:

- If you want to schedule the program as a background job, always save the generated XML files on the application server. (You can implement a BAdI if you want to store the files in a different location that is accessible to the application server.)
  - If you want to execute the program online, you can save the files on the application server or locally.
4. Select the Customizing objects that you want to extract, and check the file names.
  5. Choose [Execute](#) or schedule the program for execution periodically as needed.
  6. Verify that the files are saved in the location that you specified. If you selected [Save on Application Server](#) in step 2, you can use transaction `AL11` to check the application server directory.

## More Information

[Troubleshooting Integration Issues \[page 109\]](#)

[Mapping of Customizing Data from SAP ERP to SAP Sourcing \[page 89\]](#)

## 4.1.3 Carry Out Initial Load of Customizing Data in SAP Sourcing

### Prerequisites

- If you have not imported the SAP ERP data as part of the SAP Sourcing installation as described in [Extract Customizing Data from SAP ERP in CSV Format \[page 27\]](#), you must extract Unit Category Text and Unit Category in CSV format, and import them into SAP Sourcing before you import Unit of Measure.

#### Note

An SAP Sourcing expert must perform this procedure.

You must import the following master data to SAP Sourcing in the order given below:

- Currency ISO Codes
- Currencies



- Unit Category Text
- Unit Category
- UOM ISO Codes
- Unit of Measure
- Company codes
- Purchasing organizations
- Plants
- Purchasing groups
- Material groups
- Vendor Account Groups

The initial load of Customizing data to SAP Sourcing can be manual process in which you upload the XML files that you generated in [Extract Customizing Data from SAP ERP \[page 28\]](#), but the SAP ERP report as well allows to save the generated XML files on the server from where it could get imported automatically (requiring further configuration like setting up that data from certain folders gets imported automatically).

If a field is optional in SAP Sourcing, and if an invalid value is exported from SAP ERP, the field will be left blank in SAP Sourcing, and a warning message will be issued. The import will otherwise continue successfully.

#### Example

If the value of the company code to which a plant is assigned is invalid in SAP Sourcing, you must export the correct company code and then the plant in SAP Sourcing. If you import a plant before the company code to which the plant is assigned, the plant will be created in SAP Sourcing, but a warning message will be issued that the company code was not found. The import will otherwise continue successfully.

When a contract or an RFx award should be published to an SAP ERP system there is a check that each used unit of measure (UOM) and the currency has an ISO Code; thus, when creating or importing a new currency or UOM first the ISO codes should be imported. Always import the ISO Codes first and afterwards import the UOM and/or currency file itself.

Each vendor in SAP ERP is assigned to a vendor account group, and also could have a region assigned. First, import the account groups and SAP ERP regions; otherwise, the import of suppliers could fail. A vendor record in SAP ERP also could have a payment term and/or Incoterm. Similarly for a material that contains information about plants, the plant itself has a relationship to a company code and purchasing organization. Furthermore, a plant can have a region assigned and thus the regions must be imported first.

#### Recommendation

SAP recommends first importing simple master data like payment terms, SAP ERP regions or Incoterms, but even a region contains a country which should be imported into SAP Sourcing via the standard workbook import, otherwise you would first need to create the country. Next you can import the ISO codes followed by currency and UOM. Afterwards, import company codes, plants, purchasing organizations and groups.

#### Note

After importing units from SAP SRM, Choose [Setup](#) and find all units with the category [No Dimension](#). Make sure that at least one of the units is set as [Primary](#). This prevents error messages about unit category “No Dimension” from occurring. See [Troubleshooting Integration Issues \[page 109\]](#) for more information.

## Procedure

1. Log on to SAP Sourcing as a user that is scoped to the enterprise context, and has the right to import data.

### Note

Most often, the Customizing data is wanted at enterprise level. This requires you to log on to SAP Sourcing as a user that is scoped to the enterprise company. If any of the objects are company-scoped, and you import them as a company-level user, only that company will see the Customizing data. Whether this is desired depends on how you segregate your data.

2. Choose [Setup](#).
3. On the [System Administration](#) tab, find the [Import and Export Tools](#) section and click [Import Data](#).
4. Choose [New](#) and follow the instructions in the setup wizard.

### Note

When importing CSV files, select the SAP ERP object type in the wizard. For example:

- for Unit Category Texts, select object type [localized resource](#).
- for Unit Category, select object type [value list value](#).

## More Information

SAP Library for SAP ERP on SAP Help Portal at [help.sap.com](https://help.sap.com) ► [SAP Business Suite](#) ► [SAP ERP](#) ► [SAP ERP Central Component](#) ►

## 4.1.4 Integration of Customizing Data with Multiple ERP Systems

If you are integrating with only one SAP ERP system, skip this section and go to [Material Master Data Integration from SAP ERP to SAP Sourcing \[page 32\]](#).

The information in this section describes how to configure master data from multiple SAP ERP systems.

## Procedure

1. For each SAP ERP system with which you are integrating with SAP Sourcing, extract the following customizing data:
  - Company codes
  - Purchasing organizations
  - Plants
  - Purchasing groups
  - Material groups
  - Payment terms
  - Incoterms
  - Vendor account groups

See [Extract Customizing Data from SAP ERP in XML Format \[page 28\]](#) for more information.

2. Import the extracted files into SAP Sourcing in the exact sequence listed in Step 1.  
See [Carry Out Initial Load of Customizing Data in SAP Sourcing \[page 29\]](#) for more information.

## 4.2 Material Master Data Integration from SAP ERP to SAP Sourcing

### Note

This procedure must be performed by an SAP ERP expert, consultant, or key user.

After you have replicated customizing data to SAP Sourcing, you can transfer material master data from SAP ERP to SAP Sourcing.

There are two different ways to populate your SAP Sourcing or SAP CLM system with material data:

- Extract material data by using the BBP\_ES\_MASTERDATA\_EXTRACT report without using SAP NetWeaver PI. The BBP\_ES\_MASTERDATA\_EXTRACT report allows you to select one or more languages, and specify the location for storing the generated XML file. It also provides filter criteria such as material number, material type, and material group which allows you to extract only certain materials.
- Use Application Link Enabling (ALE) distribution, change pointers, and SAP NetWeaver Process Integration SAP NetWeaver PI configuration.

To maximize performance, you can specify the number of material records for every XML file. The default number is 10000. Adjust this value to accommodate your set of material data (for example, materials having one or many associated plants) and hardware. This report is designed for an initial load of materials into SAP Sourcing or SAP CLM. To transfer delta changes, setup SAP NetWeaver PI and iDOC to use the change pointer.

### 4.2.1 Initial Load of Materials Using Extraction Report

#### Note

An SAP ERP expert must perform this procedure.

#### Note

Use this simple method for an initial upload of materials data from SAP ERP to SAP Sourcing, when you do not anticipate uploading changes to the data later. In this method, you first run an extraction report, and then manually import the extracted files into SAP Sourcing.

To extract material data from SAP ERP, run the report BBP\_ES\_MASTERDATA\_EXTRACT. This report extracts material data into one or more XML documents in a format required by SAP Sourcing. You can store the XML file on an application server or locally.

## Prerequisites

Business Add-In (BAI) exits are provided to enhance the standard functionality.

- Use BAdI BADI\_BBP\_ES\_ADDITIONAL\_DATA to enhance or extend the material data during the extraction process.
- Use BAdI BADI\_BBP\_ES\_DOWNLOAD\_XML to define other locations for saving the XML files.
- Use BAdI BADI\_BBP\_ES\_REMOVE\_DATA to exclude fields from the XML document. BAdI BADI\_BBP\_ES\_REMOVE\_DATA has example class BBP\_ES\_CL\_REMOVE\_DATA.

#### Note

- If BAdI BADI\_BBP\_ES\_REMOVE\_DATA is not visible in [► Customizing for Integration with Other mySAP.com Components ► E-Sourcing ► Business Add-Ins \(BAdIs\)](#), see [SAP Note 1458469](#).
- Use BAdI BBP\_ES\_CHANGE\_DATA to modify fields in the XML files.
- BAdI BADI\_BBP\_ES\_CHANGE\_DATA has an example implementation CL\_EXM\_IM\_BADI\_BBP\_ES\_CHG\_DATA.

#### Note

If BAdI BADI\_BBP\_ES\_CHANGE\_DATA is not visible in [► Customizing for Integration with Other mySAP.com Components ► E-Sourcing ► Business Add-Ins \(BAdIs\)](#), see [SAP Note 1458469](#).

## Procedure

1. In transaction BBP\_ES\_MAST\_DOWNLOAD, enter the languages in which you want to extract the Material data.
2. Select Report Version 2 and [Execute](#).
3. Specify whether you want the generated XML files to be saved on the application server or locally. The objective is to get the files to a location where the importer from the SAP Sourcing application can access them.

#### Recommendation

- To schedule the program as a background job, always save the generated XML files on the application server. You can implement a BAdI if you want to store the files in a different location that is accessible to the application server.
  - To execute the program online, save the files on the application server or locally.
4. Select [Material](#) as the master data object that you want to extract.
  5. To select the materials, enter the input values for the different selection options:
    - Material
    - Material Type
    - Material Group for selecting the materials
  6. Check the file name.
  7. Enter the number of materials to be extracted in a single xml file. By default 10,000 materials are extracted into one file.
  8. Choose [Execute](#), or schedule the program for execution periodically as needed.
  9. Verify that the files are saved in the location that you specified. If you selected [Save on Application Server](#) above, use transaction AL11 to check the application server directory.

## Import the Extracted Materials into SAP Sourcing

1. Log on to SAP Sourcing as a user that is scoped to the enterprise context and has the right to import data.

### **i** Note

Most often, the Customizing data is wanted at enterprise level. This requires you to log on to SAP Sourcing as a user that is scoped to the enterprise company. If any of the objects are company-scoped, and you import them as a company-level user, only that company will see the Customizing data. Whether this is desired depends on how you segregate your data.

2. Choose [Setup](#).
3. On the [System Administration](#) tab, find the [Import and Export Tools](#) section and choose [Import Data](#).
4. Choose [New](#), and follow the wizard.

## More Information

- [Mapping of Material Master Data from SAP ERP to SAP Sourcing \[page 97\]](#)

## 4.2.2 Initial Load and Ongoing Transfer of Materials Delta Using IDoc

### **i** Note

Use this method if you want to both upload materials data initially, and also to continue to upload changes in materials data to SAP Sourcing as they are made in SAP ERP. You must replicate Customizing data and then material master data from SAP ERP to SAP Sourcing.

You replicate material master data using Application Link Enabling (ALE) distribution, change pointers, and SAP NetWeaver Process Integration (SAP NetWeaver PI) configuration. This is described in detail later in this chapter. For an overview of the process, see below.

### Material Master Data from SAP ERP to SAP Sourcing Using Idoc

In the following figure, a material is sent from SAP ERP, triggering the creation of a material in SAP Sourcing. The transfer of files from SAP NetWeaver PI to SAP Sourcing can be achieved either by FTP server or by creating a shared directory on the SAP NetWeaver PI server.

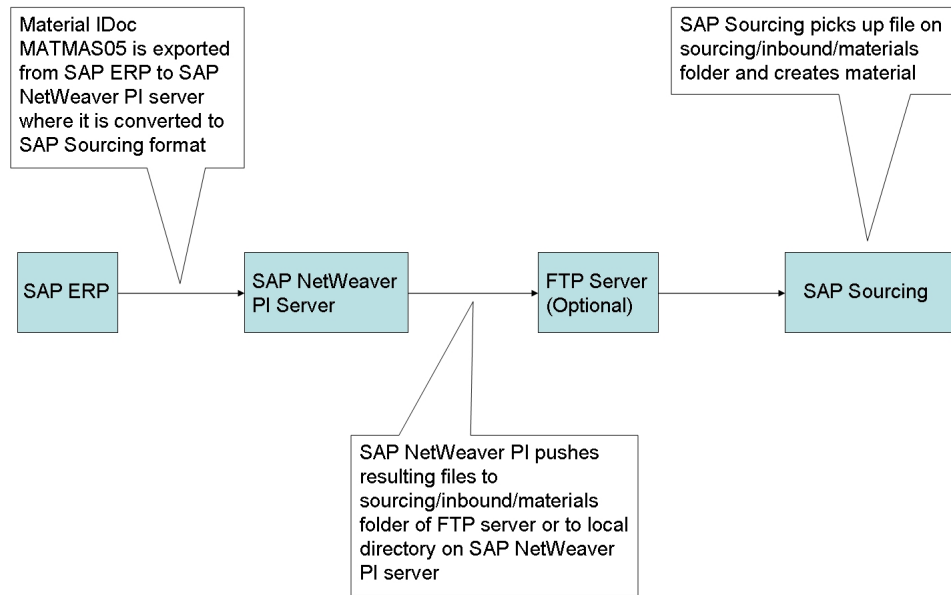


Figure 1: Integration Architecture for Material Master Data

See also [Mapping of Material Master Data from SAP ERP to SAP Sourcing \[page 97\]](#).

#### 4.2.2.1 Maintain RFC Destination for Material Transfer

##### **i** Note

An SAP ERP expert must perform this procedure.

Maintain the RFC destination in order to define the target system of the master data IDocs.

##### **➔** Recommendation

To improve throughput of master data IDocs, we recommend bundling IDocs into a single XML file for SAP NetWeaver Process Integration (SAP NetWeaver PI) using the XML HTTP port type on the outbound side and the plain HTTP adapter on the inbound side. By choosing the XML HTTP port type, IDocs are sent using HTTP in one XML message containing multiple IDocs. With the XML file port type, the ALE layer creates the IDocs directly in one single file in their XML representation.

#### Prerequisites

- [Define Logical System for SAP Sourcing in SAP ERP \[page 16\]](#)

#### Procedure

1. In transaction `SM59`, select [HTTP Connections to ABAP System](#) and choose [Create](#). If you are using SAP NetWeaver PI 7.3 AEX, select [HTTP Connection to External Server](#) and choose [Create](#).

2. Create an entry for material, as shown in the following tables:

Table 18: Fields and Values for Material

Field	Value	Example
RFC Destination	<SID of SAP NetWeaver PI><Client Number of SAP NetWeaver PI>_HTTPPLAIN_<Message Type>	X7X001_HTTPPLAIN_MATMAS
Connection Type	H	
Description	HTTP Connection to SAP NetWeaver PI System for Material Load	
Target Host	<SAP NetWeaver PI Server>	uscix7x.sap.com
Service No.	HTTP Service Port of SAP NetWeaver PI Server	50050
Path Prefix	/sap/xi/adapler_plain/?namespace=urn:sap-com:document:sap:idoc:messages&interface=MATMAS.MATMAS05&service=<Sender System>&qos=EO (or EOIO)	/sap/xi/adapler_plain/?namespace=urn:sap-com:document:sap:idoc:messages&interface=MATMAS.MATMAS05&service=QV5_340&qos=EO
Language	Details to connect to SAP NetWeaver PI system	
Client	Details to connect to SAP NetWeaver PI system	
User	Details to connect to SAP NetWeaver PI system	
Password	Details to connect to SAP NetWeaver PI system	

Table 19: Fields and Values for Material (for SAP NetWeaver PI 7.3 AEX)

Field	Value	Example
RFC Destination	<SID of SAP NetWeaver PI><Client Number of SAP NetWeaver PI>_HTTPPLAIN_<Message Type>	E7W_HTTPPLAIN_MAT380
Connection Type	G	
Description	HTTP Connection to SAP NetWeaver PI System for Material Load	
Target Host	<SAP NetWeaver PI Server>	nvpal723.sap.com
Service No.	HTTP Service Port of SAP NetWeaver PI Server	50000
Path Prefix	/sap/xi/adapler_plain/?namespace=urn:sap-com:document:sap:idoc:messages&interface=MATMAS.MATMAS05&service=<Sender System>&qos=EO	/HttpAdapter/HttpMessageServlet?interfaceNamespace=urn:sap-com:document:sap:idoc:messages&interface=MATMAS.MATMAS05&senderService=QV6_380&qos=EO
Logon with User	Select <a href="#">Basic Authentication</a> .	
User	Details to connect to SAP NetWeaver PI system	
Password	Details to connect to SAP NetWeaver PI system	

3. Ensure the status of the connection by choosing [Connection Test](#).

If the connection is successful, the RFC connection test screen appears, indicating the connection type and other connection data.



## 4.2.2.2 Maintain Port Definition for Material Transfer

### Procedure

#### **i** Note

An ERP expert must perform this procedure.

1. In transaction `WE21`, select **XML HTTP** and choose **Create**.
2. Create an entry for material, as shown in the following table:

#### **i** Note

If you are using SAP NetWeaver PI 7.3 AEX, use the RFC destination you created for SAP NetWeaver PI 7.3 AEX in [Maintain RFC Destination for Material Transfer \[page 35\]](#).

Table 20: Fields and Values for Material

Field	Value	Example
Port	<SID of SAP NetWeaver PI System>_<Message Type>	X7X_MATMAS
Description	XML HTTP Port to <SID of SAP NetWeaver PI System> Client <SAP NetWeaver PI Client> for <Message Type>	XML HTTP Port to X7X Client 001 for MATMAS
RFC Destination	RFC destination that you created in <a href="#">Maintain RFC Destination [page 35]</a>	X7X001_HTTPPLAIN_MATMAS
Content Type	Text/XML	

## 4.2.2.3 Maintain Partner Profile for Materials Transfer

### Procedure

#### **i** Note

An SAP ERP expert must perform this procedure.

1. In transaction `WE20`, select **Partner Type LS** and select **Create**.

Table 21: Fields and Values for Partner Profile

Field	Value	Example
Partner Number	<Partner Number of SAP Sourcing Logical System>	SOURCING
Partner Type	LS	
Type	O or US	

Field	Value	Example
Agent	Enter the job (person or group of persons) to be notified in case of error	50010120
Language	EN	

2. Specify outbound parameters, as listed in the table below:

Table 22: Outbound Parameters for Message Type MATMAS

Field	Value	Example
Message Type	MATMAS	
Receiver Port	Choose the XML HTTP port that you created in <a href="#">Maintain Port Definition for Material Transfer [page 37]</a>	X7X_MATMAS
Output Mode	For better performance throughput in the initial upload of materials, select <a href="#">Collect IDocs</a>	
Basic Type	MATMAS05	

## 4.2.2.4 Maintain Distribution Model for Material Transfer

### Procedure

#### Note

An SAP ERP expert must perform this procedure.

1. In transaction BD64, switch to edit mode.
2. Choose [Create Model View](#).
3. Create a model view, as shown in the following table:

Table 23

Field	Value
Short Text	ERP – Sourcing Integration
Technical Name	ERP_ES_INT

4. In the [Distribution Model](#) list, select [ERP – E-Sourcing Integration](#) and choose [Add Message Type](#).
5. Add the message types MATMAS as shown in the following table:

Table 24: Fields and Values for Message Type MATMAS

Field	Value	Example
Sender	Logical System of SAP ERP <SID>CLNT<Client Number>	QV5CLNT340
Receiver	Logical System of SAP Sourcing	SOURCING
Message Type	MATMAS	

6. If you want to distribute all materials you can skip this step. If you do not want to distribute all materials you must apply filters as follows.
  1. In transaction `BD64`, select your distribution model and switch to change mode.
  2. Expand your distribution model and double-click `No Filter Set` for the message type `MATMAS` (material master).
  3. In the dialog box that appears, choose `Create Filter Group`.
  4. Enter values for the possible filter groups.

## 4.2.2.5 Configure Integration Scenario for Send Material Master from SAP ERP to SAP Sourcing

### Prerequisites

- [Basic Configuration in SAP NetWeaver Process Integration \[page 18\]](#)









### Procedure

#### Note

An SAP NetWeaver Process Integration (PI) expert must perform this procedure.

#### Note

Skip this section if you are using SAP NetWeaver PI 7.3 AEX. You must manually create this item using the information in [Configuring AEX Communication Channels and Integrated Configurat \[page 113\]](#).

1. In the process integration tools (transaction `SXMB_IFR`), log on to the Integration Directory (SAP NetWeaver PI 7.0x) or Integration Builder (SAP NetWeaver PI 7.1 or higher).
2. SAP NetWeaver PI 7.0x: Expand the `Configuration Scenario` node and select the Configuration Scenario that you created in [Configure Integration Scenario \[page 23\]](#) and click `Edit`. From the menu, select  `Configuration Scenario`  `Integration Scenario Configurator` . In `Integration Scenario Configurator`, configure the scenario for `Send Material Master from SAP ERP to SAP Sourcing`.  
SAP NetWeaver PI 7.1 or higher: Expand the `Configuration Scenario` node and select the Configuration Scenario that you created in [Configure Integration Scenario \[page 23\]](#) and click `Edit`. From the menu on the right side of the page, select  `Configuration Scenario`  `Model Configurator` . In `Model Configurator`, configure the scenario for `Send Material Master from SAP ERP to SAP Sourcing`.
3. SAP NetWeaver PI 7.0x: In the component view, double-click the connector () between `Send Material Master to Partner Component` and `Receive Material from ERP`.  
SAP NetWeaver PI 7.1 or higher: In the component view, click the connector () between `Send Material Master to Partner Component` and `Receive Material from ERP`.
4. SAP NetWeaver PI 7.0x: On the `Connections from the Service Assignment` tab, position the cursor in the `Communication Channel` field for `Sender Business System Services` and, in the dropdown for the create icon, choose `Create Communication Channel with Template`.

SAP NetWeaver PI 7.1 or higher: On the [Connections from Component Assignment](#) tab, position the cursor in the [Communication Channel](#) field for [Sender Business System Components](#) and, in the dropdown for the create icon, choose [Create Communication Channel with Template](#).

5. In the dialog box that appears, proceed as follows:

1. In step 1 of the dialog box, choose [Continue](#).
2. In step 2 of the dialog box, choose [Continue](#).
3. In step 3 of the dialog box, note the name of the communication channel. You can rename the communication channel if you wish.

### Note

If you rename the communication channel, be sure to note down the original name and the new name, and keep this information safe. This will help you later on in this guide.

4. Choose [Finish](#) and then choose [Close](#).

6. SAP NetWeaver PI 7.0x: On the [Connections from the Service Assignment](#) tab, position the cursor in the [Communication Channel](#) field for [Receiver Business System Services](#) and, in the dropdown for the create icon, choose [Create Communication Channel with Template](#).

SAP NetWeaver PI 7.1 or higher: On the [Connections from Component Assignment](#) tab, position the cursor in the [Communication Channel](#) field for [Receiver Business System Components](#) and, in the dropdown for the create icon, choose [Create Communication Channel with Template](#).

7. In the dialog box that appears, proceed as follows:

1. In step 1 of the dialog box, choose [Continue](#).
2. In step 2 of the dialog box, choose [Continue](#).
3. In step 3 of the dialog box, note down the name of the communication channel. You can rename the communication channel if you wish.

### Note

If you rename the communication channel, be sure to note down the original name and the new name, and keep this information safe. This will help you later on in this guide.

4. Choose [Finish](#) and then choose [Close](#).

8. Choose [Apply](#).

9. Navigate to Menu  [Settings](#)  [Apply Changes](#)  [Save Configuration Scenario](#) .

10. To generate configuration objects:

SAP NetWeaver PI 7.0x: Under [Configuration Steps](#), click [Generate](#).

SAP NetWeaver PI 7.1 or higher: Click the icon with the tooltip [Create Configuration Objects](#).

In the dialog box that appears, select [Generation](#). Ensure that all three checkboxes under [Scope of Generation](#) are selected. Select [Create New](#), and choose [Start](#).

The following table shows the configuration objects that are generated for Send Material Master from SAP ERP to SAP Sourcing. The sender business system is SAP ERP and the receiver business system is SAP Sourcing.

Table 25: Configuration Objects Generated for Send Material Master from SAP ERP to SAP Sourcing.

Sender Interface	Sender Communication Channel Template	Receiver Interface	Receiver Communication Channel Template	Interface Mapping
MATMAS.MAT- MAS05	CT_Generic_Sending_HTTP_Channel_For_ERP_Out-bound_IDOCs	MI_IB_Material	CT_Material_Receiving_File_Channel_For_ES	IM_ERP_Material_To_ES_Material

#### **i** Note

If you want to use shared file system, see [Transport Protocol Shared File System \[page 109\]](#) for information about how to configure the communication channels.

## 4.2.2.6 Configure Communication Channel for Send Material Master

### Procedure

#### **i** Note

An SAP NetWeaver Process Integration (PI) expert must perform this procedure.

#### **i** Note

Skip this section if you are using SAP NetWeaver PI 7.3 AEX. You must manually create this item using the information in [Configuring AEX Communication Channels and Integrated Configuration \[page 113\]](#).

1. In the process integration tools (transaction `SXMB_IFR`), log on to the [Integration Directory](#) (SAP NetWeaver PI 7.0x) or [Integration Builder](#) (SAP NetWeaver PI 7.1 or higher).
2. Configure the communication channel that is associated with the SAP ERP business system. Double-click the communication channel `CT_Material_Receiving_File_Channel_For_ES` and enter the data listed in the table below. In the table, the name of the communication channel is the name in the standard system. You might have renamed the communication channel when you created it in [Configure Integration Scenario for Send Material Master \[page 39\]](#).

#### **i** Note

The default transport protocol of the file communication channel templates is FTP. Request the FTP details in the following tables (for example, path of FTP directory, IP address of FTP server) from your integration team.

Table 26: Parameters and Values for Communication Channel `CT_Material_Receiving_File_Channel_For_ES`

Parameter	Value
Target Directory	Enter the path of the FTP directory.
Server	Enter the FQDN of the FTP server.

Parameter	Value
Anonymous Login	Deselect.
User Name	Enter the user name and password of the FTP account.
Password	Enter the user name and password of the FTP account.

### Note

If you want to use a shared file system, see [Transport Protocol Shared File System \[page 109\]](#) for information about how to configure the communication channels.

3. Save your entries.
4. Activate all configuration objects and the configuration scenario as follows:
  1. Expand the change lists on the [Change Lists](#) tab.
  2. Right-click your change list and choose [Activate](#).
  3. In the dialog box that appears, choose [Activate](#).
  4. Some objects are in your change list, but some are in the standard change list. Activate these objects too. Activate the objects in the standard change list before you activate objects in your change list.

This activates the SAP ERP business system and SAP Sourcing business system, communication channels, receiver determinations, interface determinations, receiver agreements, sender agreements, and configuration scenario.

### Note

All data has already been copied from the template for the following communication channel:  
CT\_Generic\_Sending\_HTTP\_Channel\_For\_ERP\_Outbound\_IDOCs.

## More Information

### Configuring AEX Communication Channels

## 4.2.2.7 Create Scheduled Tasks to Import XML Messages for Materials

### Note

An SAP Sourcing expert must perform this procedure.


You must create the following scheduled task in SAP Sourcing to import the XML messages that are generated by SAP NetWeaver Process Integration: .

## Procedure

1. Log on to SAP Sourcing as a user with system administration rights.
2. Choose [Setup](#).

3. On the [System Setup](#) tab, find the [Scheduled Tasks](#) section and click [Scheduled Tasks](#).
4. Choose [New](#).
5. Select [Data Import Monitor](#) and choose [Continue](#).
6. Create the scheduled task for materials as shown in the following table.

Table 27: Scheduled Task for Materials

Field	Value
Inactive (Status)	Select this checkbox until you are ready to run the task.
Display Name	Master Data Import
Description	Enter <b>Import of Materials</b> .
Run As User	Choose a key user.
Frequency	<p>Set the frequency according to your business requirements. However, be aware that running these tasks too frequently will cause performance issues.</p> <div>  <b>Recommendation</b> <ul style="list-style-type: none"> <li>For materials, we recommend running once daily in the middle of the night</li> </ul> </div>
Start Date	As required.
Expiration Date	As required.
On These Days	As required.

7. Click [Data Import Task Configuration](#).
8. Maintain the data import task configuration as shown in the following table.

Table 28

Field	Value
Data Location	FTP
Requires Authentication	Select
Delete Data from FTP Server After Downloading	Select
Upload Directory	Provided by your IT network expert.
Queue Directory	Provided by your IT network expert.
Archive Directory	Provided by your IT network expert.
Receipt Notice Type Completion Notice Type	Be aware that a setting other than <a href="#">None</a> could cause many e-mails or alerts because an e-mail or alert is sent for each import file.

9. Save your entries.

## 4.2.2.8 Carry Out Initial Load of Materials

### Procedure

#### **i** Note

An SAP ERP expert must perform this procedure.

#### **i** Note

You can prevent the sending of materials without purchasing data to SAP Sourcing by implementing the Business Add-In (BAI) IDOC\_CREATION\_CHECK in SAP ERP. Sample code is provided below.

```
METHOD if_ex_idoc_creation_check~idoc_data_check.  
DATA: ls_idoc_data TYPE edidd.  
IF idoc_control-rcvprn = 'FRWESO' "System name defined in BD64  
AND idoc_control-mestyp = 'MATMAS' "Defined in WE20  
AND idoc_control-idocctp = 'MATMAS05'. "Defined in WE20  
IF cl_bbp_es_settings=>es_erp_active( ) = 'X'.  
READ TABLE idoc_data WITH KEY segnam = 'E1MARCM'  
TRANSPORTING NO FIELDS.  
IF sy-subrc <> 0.  
CLEAR create_idoc.  
ENDIF.  
ENDIF.  
ENDIF.  
ENDMETHOD.
```

#### **i** Note

The following procedure describes how to carry out the initial load manually. You can also carry out the initial load in the background. You do this in transaction SM36 by scheduling a background job for program RBDSEMAT. You can monitor the background job in transaction SM37.

1. In transaction BD10, enter your data as shown in the following table:

Table 29: Parameters and Values for Sending Materials

Field	Value	Example
Material	Enter the materials that you want to send.	
Message Type	MATMAS	
Logical System	Logical system of SAP Sourcing	SOURCING
Number of Materials per Process	Remove any value in this field and leave it blank.	

2. Choose **Execute**.



3. This step is necessary only if you selected the output mode [Collect IDocs](#) when maintaining the partner profile. For more information, see [Maintain Partner Profile for Materials Transfer \[page 37\]](#).

In transaction `SE38`, execute program `RSEOUT00` to process the IDocs. Enter the parameters as shown in the following table. You can also schedule this program as a background job.

Table 30: Parameters and Values for Program RSEOUT00

Parameter	Value
Basic Type	MATMAS05
Port of Receiver	Enter the port that you created in <a href="#">Maintain Port Definition for Material Transfer [page 37]</a> .
Logical Message	MATMAS
Maximum Number of IDocs	Enter the number of IDocs to be exported in a single message. The number depends greatly on the message size of the single IDoc. The number can be higher for small objects, but should be lower for large objects such as materials. If the message becomes too large, more memory and time is required for extraction in SAP ERP and for mapping in SAP NetWeaver Process Integration. For materials, we have found that bundling approximately 100 IDocs leads to optimum throughput when sending only client-level data.

#### Follow-Up Activities

1. In transaction `WE02`, check the IDocs by entering criteria such as the date and time created, direction, and basic type.
2. After a full batch of files is imported, verify the success of the import in SAP Sourcing as follows:
  1. Log on to SAP Sourcing as a user that is scoped to the enterprise context and has the right to import data.
  2. Choose [Setup](#).
  3. On the [System Administration](#) tab, find the [Import and Export Tools](#) section and click [Import Data](#).
  4. In the [Data Import List](#) dropdown, choose [All Data Imports](#) (if not already selected).
  5. Correct any file errors and subsequent errors due to missing dependencies. Be sure to correct all errors before importing the next batch of files.

#### More Information

[Troubleshooting Integration Issues \[page 109\]](#)

[Mapping of Material Master Data from SAP ERP to SAP Sourcing \[page 97\]](#)

### 4.2.2.9 Transfer Changes to Materials Using iDoc

#### Note

An SAP ERP expert must perform this procedure.

Whenever there is any change in the material master data, change pointers are needed to generate IDocs from the application documents.

## Procedure

### Maintain Number Range for Change Pointers

Internal numbers are assigned to change pointers for unique identification. The system can only generate the numbers if a number range is maintained for number range interval 01.

1. In transaction BDCP, choose [Display Intervals](#) to determine whether a number range is already maintained for interval 01.
2. If no number range is maintained for interval 01, choose [Interval](#) [Maintain](#).
3. On the [Maintain Number Range Intervals](#) screen, choose [Insert Interval](#).
4. Enter interval 01 and a number range, and choose [Insert](#).
5. To verify that the entry is error-free, choose [Interval](#) [Check](#).
6. Save your entries.

### Activate Change Pointers – Generally

1. In [Customizing for IDoc Interface / Application Link Enabling \(ALE\)](#) (transaction SALE), choose [Modelling and Implementing Business Processes](#) [Master Data Distribution](#) [Replication of Modified Data](#) [Activate Change Pointers - Generally](#).
2. Select the [Change Pointers Activated – Generally](#) checkbox.
3. Save your entries.

### Activate Change Pointers for Message Type MATMAS

1. In [Customizing for IDoc Interface / Application Link Enabling \(ALE\)](#) (transaction SALE), choose [Modelling and Implementing Business Processes](#) [Master Data Distribution](#) [Replication of Modified Data](#) [Activate Change Pointers for Message Types](#).
2. For message type MATMAS, select the [Active](#) checkbox.
3. Save your entry.

### Create IDocs from Change Pointers

#### Note

The following describes how to create IDocs from change pointers manually. You can also create IDocs from change pointers in the background. You do this in transaction SM36 by defining a variant and then scheduling a background job for program RBDMIDOC. This program reads the change pointers and generates IDocs from them.

1. In transaction BD21, enter message type MATMAS to send IDocs for changes to materials.
2. Choose [Execute](#).

#### Note

Step #3 is necessary only if you selected the output mode [Collect IDocs](#) when maintaining the partner profile. For more information, see [Maintain Partner Profile for Material Transfer \[page 37\]](#).

3. In transaction SE38, execute program RSEOUT00 to process the IDocs. Enter the parameters as shown in the following table. You can also schedule this program as a background job.

## More Information

[Troubleshooting Integration Issues \[page 109\]](#)

### 4.2.3 Integration of Materials with Multiple SAP ERP Systems

If you are integrating SAP Sourcing with a single SAP ERP system, you can skip this section and go to [Business Process Integration \[page 70\]](#).

#### 4.2.3.1 Configure Each SAP ERP System for Materials

##### Procedure

###### Note

An SAP ERP expert must perform this procedure.

For each SAP ERP system, do the following:

1. [Basic Configuration of Master Data from Multiple SAP ERP Systems \[page 24\]](#)
2. [Integration of Customizing Data with Multiple ERP Systems \[page 31\]](#)
3. [Maintain RFC Destination for Material Transfer \[page 35\]](#)
4. [Maintain Port Definition for Material Transfer \[page 37\]](#)
5. [Maintain Partner Profile for Material Transfer from SAP ERP to S \[page 37\]](#)
6. [Maintain Distribution Model for Material Transfer \[page 38\]](#)

#### 4.2.3.2 Configure Integration Scenario and Communication channel for Each ERP System for Materials

In the process integration tools (transaction SXMB\_IFR), log onto the Integration Builder and then open the configuration scenario that you configured for a single SAP ERP system. This is the configuration scenario that you created in [Configure Integration Scenarios \[page 23\]](#).

##### Prerequisites

[Basic Configuration in SAP NetWeaver Process Integration \[page 18\]](#)

## Procedure

### Note

An SAP NetWeaver Process Integration (PI) expert must perform these procedures.

### Copy Receiver Determination

1. In the configuration scenario, search for the receiver determination shown in the following table.

Table 31

Field	Value
Communication Component (Sender)	SAP ERP system
Interface	MATMAS.MATMAS05
Namespace	urn:sap-com:document:sap:idoc:messages

2. Choose [Copy Object](#).
3. In the [Communication Component](#) field for the sender, choose the SAP ERP system from the value help. This is the SAP ERP system to which you want to connect.
4. Choose [Copy](#).
5. Repeat steps 2 to 4 for each SAP ERP system that you want to integrate with SAP Sourcing.

### Copy Interface Determination

1. In the configuration scenario, search for the interface determination shown in the following table.

Table 32

Field	Value
Communication Component (Sender)	SAP ERP system
Interface	MATMAS.MATMAS05
Namespace	urn:sap-com:document:sap:idoc:messages
Communication Component (Receiver)	SAP Sourcing system

2. Choose [Copy Object](#).
3. In the [Communication Component](#) field for the sender, choose the SAP ERP system from the value help. This is the SAP ERP system to which you want to connect.
4. In the [Add to Scenario](#) field, choose the configuration scenario from the value help.
5. Choose [Copy](#).
6. Repeat steps 2 to 5 for each SAP ERP system that you want to integrate with SAP Sourcing.

### Copy Communication Channel

1. In the configuration scenario, search for the sender communication channel  
CT\_Generic\_Sending\_HTTP\_Channel\_For\_ERP\_Outbound\_IDOCs.

### Note

You might have renamed this communication channel.

2. Choose [Copy Object](#).
3. In the [Communication Component](#) field, choose the SAP ERP business system from the value help. This is the SAP ERP system that you imported from the SLD to the Integration Builder.

4. If you wish, rename the communication channel.
5. In the [Add to Scenario](#) field, choose the configuration scenario from the value help.
6. Choose [Copy](#).
7. Repeat steps 2 to 6 for each SAP ERP system that you want to integrate with SAP Sourcing.

### Copy Sender Agreement

1. In the configuration scenario, search for the sender agreement shown in the following table.

Table 33

Field	Value
Communication Component (Sender)	SAP ERP system
Interface	MATMAS.MATMAS0505
Namespace	urn:sap-com:document:sap:idoc:messages
Sender Communication Channel	CT_Generic_Sending_HTTP_Channel_For_ERP_Outbound_IDOCs

2. Choose [Copy Object](#).
3. In the [Communication Component](#) field for the sender, choose the SAP ERP system from the value help. This is the SAP ERP system to which you want to connect.
4. In the [Add to Scenario](#) field, choose the configuration scenario from the value help.
5. Choose [Copy](#). Ignore any message to specify a communication channel, or any message that the communication channel does not match the sender.
6. Switch to edit mode.
7. Choose the sender communication channel that you created in [Copy Communication Channel](#) above.
8. Save your entries.
9. Repeat steps 2 to 8 for each SAP ERP system that you want to integrate with SAP Sourcing.

### Copy Receiver Agreement

1. In the configuration scenario, search for the receiver agreement shown in the following table:

Table 34: Copy/Receiver Agreement

Field	Value
Communication Component (Sender)	SAP ERP system
Communication Component (Receiver)	SAP Sourcing system
Interface	MI_IB_Material
Namespace	http://sap.com/xi/Esourcing/SRMJSOP
Receiver Communication Channel	CT_Material_Receiving_File_Channel_For_ES

2. Choose [Copy Object](#).
3. In the [Communication Component](#) field for the sender, choose the SAP ERP system from the value help. This is the SAP ERP system to which you want to connect.
4. In the [Add to Scenario](#) field, choose the configuration scenario from the value help.
5. Choose [Copy](#).
6. Repeat steps 2 to 5 for each SAP ERP system that you want to integrate with SAP Sourcing.

### 4.2.3.3 Configure Integration Scenario and Communication channel for Each ERP System for Materials (NetWeaver PI 7.3 AEX)

#### Note

This section describes how to configure an integration scenario and communication channel for each ERP system for materials if you are using SAP NetWeaver PI AEX 7.3.

In the process integration tools (transaction SXMB\_IFR), log onto the Integration Builder and then open the configuration scenario that you configured for a single SAP ERP system. This is the configuration scenario that you created in [Configure Integration Scenarios \[page 23\]](#).

#### Prerequisites

[Basic Configuration in SAP NetWeaver Process Integration \[page 18\]](#)

#### Procedure

#### Note

An SAP NetWeaver Process Integration (PI) expert must perform these procedures.

#### Copy Communication Determination

1. In the configuration scenario, search for the sender communication channel CT\_Generic\_Sending\_HTTP\_AAE\_Channel\_For\_ERP\_Outbound\_IDOCs.

#### Note

You might have renamed this communication channel during a previous procedure.

2. Choose [Copy Object](#).
3. In the [Communication Component](#) field, choose the SAP ERP system from the value help. This is the SAP ERP system that you imported from the SLD to the Integration Builder.
4. If you want, rename the communication channel.
5. In the [Add to Scenario](#) field, choose the configuration scenario from the value help.
6. Choose [Copy](#).
7. Save your entries.

#### Copy Receiver, Receiver Interfaces, and Inbound/Outbound Processing

1. In the configuration scenario, search for the interface determination listed in the following table.

Table 35

Field	Value
Communication Component (Sender)	SAP ERP system
Interface	MATMAS.MATMAS05

Namespace	urn:sap-com:document:sap:idoc:messages
-----------	--

2. Choose [Copy Object](#).
3. In the Communication Component field for the sender, choose the SAP ERP system from the value help. This is the SAP ERP system to which you want to connect.
4. Choose [Copy](#).
5. Dismiss any messages that appear prompting you to specify a communication channel, or any messages stating that the communication channel does not match the sender.
6. Switch to [Edit Mode](#).
7. In the [Inbound Processing](#) tab, choose the sender communication channel that you created above.
8. Save your entries.
9. Repeat all of the steps in this section for each SAP ERP system that you want to integrate with SAP Sourcing.

## 4.3 Vendor Master Integration

### Note

This procedure must be performed by an SAP ERP expert, consultant, or key user.

The following scenarios are supported in Vendor Master Integration :

1. You can replicate vendors from SAP ERP to SAP Sourcing.
2. You can publish Suppliers from SAP Sourcing to SAP ERP.
3. You can replicate Vendor from multiple SAP ERP Systems to SAP Sourcing and publish Supplier to multiple SAP ERP Systems from SAP Sourcing.

### 4.3.1 Vendor Master Data Integration from SAP ERP to SAP Sourcing

After you have replicated customizing data to SAP Sourcing, you can transfer vendor master data from SAP ERP to SAP Sourcing.

There are two different ways to populate your SAP Sourcing or SAP CLM system with vendor data:

- Extract vendor data by using the BBP\_ES\_MASTERDATA\_EXTRACT report without using SAP NetWeaver PI. The BBP\_ES\_MASTERDATA\_EXTRACT report allows you to select one or more languages, and specify the location for storing the generated XML file. It also provides filter criteria such vendor number, company code, and purchasing organization which allows you to extract only certain vendors.
- Use Application Link Enabling (ALE) distribution, change pointers, and SAP NetWeaver PI configuration.

To maximize performance, you can specify the number of vendor records for every XML file. The default number is 10000. Adjust this value to accommodate your set of vendor data and hardware. This report is designed for an initial load of vendors into SAP Sourcing or SAP CLM. To transfer delta changes, setup SAP NetWeaver PI and iDOC to use the change pointer.

### Note

The report BBP\_ES\_MASTERDATA\_EXTRACT extracts all materials and vendors, including any that are blocked or marked for deletion.

### 4.3.1.1 Initial Load of Vendors Using Extraction Report

#### **i** Note

An SAP ERP expert must perform this procedure.

#### **i** Note

Use this simple method for an initial upload of vendors data from SAP ERP to SAP Sourcing, when you do not anticipate uploading changes to the data later. In this method, you first run an extraction report, and then import the extracted files into SAP Sourcing. You can import the files manually, or automatically by using a scheduled task.

To extract vendors data from SAP ERP, run the report `BBP_ES_MASTERDATA_EXTRACT`. This report extracts data into an XML document in a format required by SAP Sourcing. You can store the XML file on an application server or locally.

## Prerequisites

Business Add-In (BAI) exits are provided to enhance the standard functionality.

- Use BAI `BADI_BBP_ES_ADDITIONAL_DATA` to enhance or extend the customizing data during the extraction process.
- Use BAI `BADI_BBP_ES_DOWNLOAD_XML` to define other locations for saving the XML files.
- Use BAI `BADI_BBP_ES_REMOVE_DATA` to exclude fields from the XML document. BAI `BADI_BBP_ES_REMOVE_DATA` has example class `BBP_ES_CL_REMOVE_DATA`.

#### **i** Note

- If BAI `BADI_BBP_ES_REMOVE_DATA` is not visible in ► [Customizing for Integration with Other mySAP.com Components](#) ► [E-Sourcing](#) ► [Business Add-Ins \(BAIs\)](#) ⓘ, see [SAP Note 1458469](#).
- Use BAI `BBP_ES_CHANGE_DATA` to modify fields in the XML files.
- BAI `BADI_BBP_ES_CHANGE_DATA` has an example implementation `CL_EXM_IM_BADI_BBP_ES_CHG_DATA`.

#### **i** Note

If BAI `BADI_BBP_ES_CHANGE_DATA` is not visible in ► [Customizing for Integration with Other mySAP.com Components](#) ► [E-Sourcing](#) ► [Business Add-Ins \(BAIs\)](#) ⓘ, see [SAP Note 1458469](#).

## Procedure

1. In transaction `BBP_ES_MAST_DOWNLOAD`, enter the languages in which you want to extract the vendor data.
2. Select Report Version 2 and [Execute](#).
3. Specify whether you want the generated XML files to be saved on the application server or locally. The objective is to get the files to a location where the importer from the SAP Sourcing application can access them.



#### ➔ Recommendation

- If you want to schedule the program as a background job, always save the generated XML files on the application server.  
You can implement a BAdI if you want to store the files in a different location that is accessible to the application server.
- If you want to execute the program online, you can save the files on the application server or locally.

4. Select [Vendor](#) as the master data object that you want to extract.
5. To select the vendor, enter the input values for the different selection options:
  - Vendor
  - Company Code
  - Purchasing Organization
6. Check the file name.
7. Enter the number of vendors to be extracted in a single XML file. By default, 10000 vendors are extracted in one file.
8. Choose [Execute](#) or schedule the program for execution periodically as needed.
9. Verify that the files are saved in the location that you specified. If you selected [Save on Application Server](#) in a previous step, you can use transaction AL11 to check the application server directory.

#### Importing Extracted Vendors into the SAP Sourcing System

1. Log on to SAP Sourcing with a user that is scoped to the enterprise context, and has the authorization to import data.

#### **i** Note

The [Customizing](#) data is often requested at enterprise level. This requires you to log onto SAP Sourcing as a user that is scoped to the enterprise company. If any of the objects are company-scoped, and you import them as a company-level user, only that company will see the [Customizing](#) data. Whether this is desired depends on how you segregate your data.

2. Choose [Setup](#).
3. On the [System Administration](#) tab, find the [Import and Export Tools](#) section and choose [Import Data](#).
4. Choose [New](#) and follow the wizard.

#### More Information

For more information about this program, see the program documentation in SAP ERP.

### 4.3.1.2 Initial Load and Ongoing Transfer of Vendors Delta Using IDoc

In the following figure, a vendor is sent from SAP ERP, triggering the creation of a supplier in SAP Sourcing.

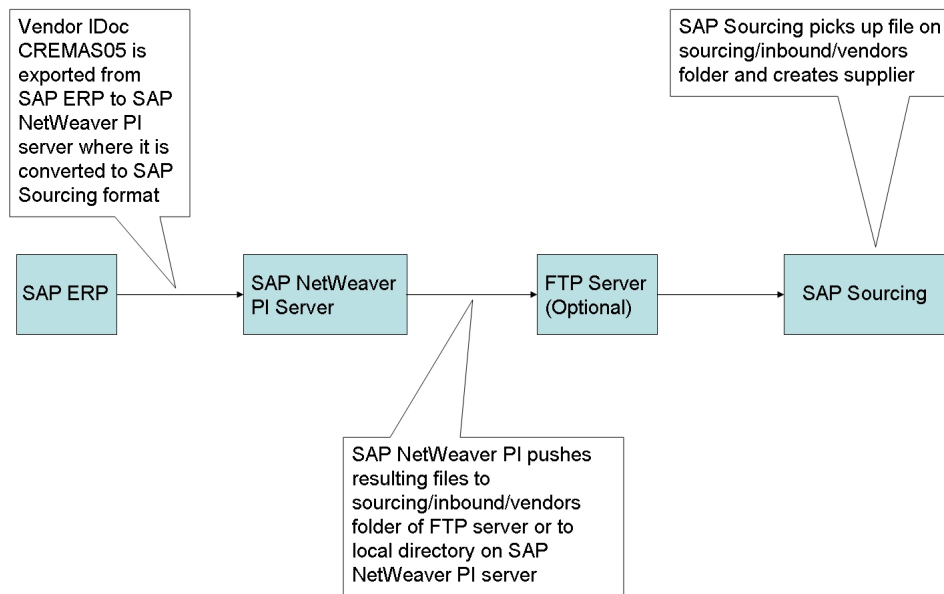


Figure 2: Initial Load Workflow from SAP ERP to SAP Sourcing Using iDoc

#### 4.3.1.2.1 Maintain RFC Destination for Vendor Transfer

You need to maintain the RFC destination to define the target system of the master data IDocs.

##### **i** Note

An SAP ERP expert must perform this procedure.

#### Prerequisites

- [Define Logical System \[page 16\]](#).

##### ➔ Recommendation

To improve throughput of master data IDocs, we recommend bundling single IDocs for SAP NetWeaver Process Integration (SAP NetWeaver PI) using the XML HTTP port type on the outbound side and the plain HTTP adapter on the inbound side. By choosing the XML HTTP port type, IDocs are sent using HTTP in one XML message containing multiple IDocs. With the XML file port type, the ALE layer creates the IDocs directly in one single file in their XML representation.

#### Procedure

1. In transaction **SM59**, select **HTTP Connections to ABAP System** and choose **Create**. If you are using SAP NetWeaver PI 7.3 AEX, select **HTTP Connection to External Server** and choose **Create**.
2. Create an entry for vendor, as shown in the following table:

Table 36: Fields and Values for Vendor

Field	Value	Example
RFC Destination	<SID of SAP NetWeaver PI><Client Number of SAP NetWeaver PI>_HTTPPLAIN_<Message Type>	X7X001_HTTPPLAIN_CREMAS
Connection Type	H	
Description	HTTP Connection to SAP NetWeaver PI System for Vendor Load	
Target Host	<SAP NetWeaver PI Server>	uscix7x.sap.com
Service No.	HTTP Service Port of SAP NetWeaver PI Server	50050
Path Prefix	/sap/xi/adapter_plain/?namespace=urn:sap-com:document:sap:idoc:messages&interface=CREMAS.CREMAS05&service=<Sender System>&qos=EO (or EOIO)	/sap/xi/adapter_plain/?namespace=urn:sap-com:document:sap:idoc:messages&interface=CREMAS.CREMAS05&service=QV5_340&qos=EO
Language	Details to connect to SAP NetWeaver PI system	
Client	Details to connect to SAP NetWeaver PI system	
User	Details to connect to SAP NetWeaver PI system	
Password	Details to connect to SAP NetWeaver PI system	

Table 37: Fields and Values for Vendor (for SAP NetWeaver PI 7.3 AEX)

Field	Value	Example
RFC Destination	<SID of SAP NetWeaver PI><Client Number of SAP NetWeaver PI>_HTTPPLAIN_<Message Type>	E7W_HTTPPLAIN_CRE380
Connection Type	G	
Description	HTTP Connection to SAP Net Weaver PI System for Vendor Load	
Target Host	<SAP NetWeaver PI Server>	nvpal723.sap.com
Service No.	HTTP Service Port of SAP NetWeaver PI Server	50000
Path Prefix	/HttpAdapter/HttpMessageServlet?interfaceNamespace=urn:sap-com:document:sap:idoc:messages&interface=CREMAS.CREMAS05&senderService=<Sender_System>&qos=EO	/HttpAdapter/HttpMessageServlet?interfaceNamespace=urn:sap-com:document:sap:idoc:messages&interface=CREMAS.CREMAS05&senderService=QV6_380&qos=EO
Logon with User	Select <a href="#">Basic Authentication</a> .	
User	Details to connect to SAP NetWeaver PI system	
Password	Details to connect to SAP NetWeaver PI system	

3. Ensure the status of the connection by choosing [Connection Test](#).

If the connection is successful, the RFC connection test screen appears, indicating the connection type and other connection data.

## 4.3.1.2.2 Maintain Port Definition for Vendor Transfer

### Procedure

#### Note

An SAP ERP expert must perform this procedure.

1. In transaction `WE21`, select [XML HTTP](#) and choose [Create](#).
2. Create an entry for vendor, as shown in the following table:

#### Note

If you are using SAP NetWeaver PI 7.3 AEX, use the RFC destination you created for SAP NetWeaver PI 7.3 AEX in [Maintain RFC Destination for Vendor Transfer \[page 54\]](#).

Table 38: Fields and Values for Vendor

Field	Value	Example
Port	<SID of SAP NetWeaver PI System>_<Message Type>	X7X_CREMAS
Description	XML HTTP Port to <SID of SAP NetWeaver PI System> Client <SAP NetWeaver PI Client> for <Message Type>	XML HTTP Port to X7X Client 001 for CREMAS
RFC Destination	RFC destination that you created in <a href="#">Maintain RFC Destination for Vendor Transfer [page 54]</a> .	X7X001_HTTPPLAIN_CREMAS
Content Type	Text/XML	

## 4.3.1.2.3 Maintain Partner Profile for Vendor Transfer from SAP ERP to SAP Sourcing

### Procedure

#### Note

An SAP ERP expert must perform this procedure.



#### Caution

If you have not already completed the steps in [Maintain Partner Profile for Vendor Transfer from SAP Sourcing](#), perform step 1 below; otherwise perform step 2 below.

1. In transaction `WE20`, select [Partner Type LS](#) and select [Create](#).

Table 39: Fields and Values for Partner Profile

Field	Value	Example
Partner Number	<Partner Number of SAP Sourcing Logical System>	SOURCING
Partner Type	LS	
Type	O or US	
Agent	Enter the job (person or group of persons) to be notified in case of error	50010120
Language	EN	

2. Go to transaction **WE20** and select the partner profile you created.
3. Specify the following outbound parameters for message type CREMAS:

Table 40: Outbound Parameters for Message Type CREMAS

Field	Value	Example
Message Type	CREMAS	
Receiver Port	Select the XML HTTP port that you created in <a href="#">Maintain Port Definition for Vendor Transfer [page 56]</a> .	X7X_CREMAS
Output Mode	For better performance throughput during the initial upload of vendors, select <b>Collect IDocs</b> .	
Basic Type	CREMAS05	

#### 4.3.1.2.4 Maintain Distribution Model for Vendor Transfer

##### Prerequisites

You have carried out the steps in [Maintain Partner Profile for Vendor Transfer from SAP ERP to SAP \[page 56\]](#).

##### Procedure

###### Note

An ERP expert or consultant must perform this procedure.

1. In transaction **BD64**, switch to edit mode.
2. Choose [Create Model View](#).
3. Create a model view, as shown in the following table:

Table 41

Field	Value
Short Text	ERP – Sourcing Integration
Technical Name	ERP_ES_INT

4. In the [Distribution Model](#) list, select [ERP – E-Sourcing Integration](#) and choose [Add Message Type](#).
5. Add the message types **CREMAS** as shown in the following table:

Table 42: Fields and Values for Message Type CREMAS

Field	Value	Example
Sender	Logical System of SAP ERP <SID>CLNT<Client Number>	QV5CLNT340
Receiver	Logical System of SAP Sourcing	SOURCING
Message Type	CREMAS	

6. If you want to distribute all vendors you can skip this step. If you do not want to distribute all vendors you must apply filters as follows.
  1. In transaction [BD64](#), select your distribution model and switch to change mode.
  2. Expand your distribution model and double-click [No Filter Set](#) for the message type CREMAS (vendor master).
  3. In the dialog box that appears, choose [Create Filter Group](#).
  4. Enter values for the possible filter groups.

#### 4.3.1.2.5 Configure Integration Scenarios for Send Vendor Master from SAP ERP to SAP Sourcing

##### Prerequisites

- [Basic Configuration in SAP NetWeaver Process Integration \[page 18\]](#)

##### Procedure


###### Note




An SAP NetWeaver Process Integration (PI) expert must perform this procedure.

###### Note

Skip this section if you are using SAP NetWeaver PI 7.3 AEX. You must manually create this item using the information in [Configuring AEX Communication Channels and Integrated Configuration \[page 113\]](#).

1. In the process integration tools (transaction [SXMB\\_IFR](#)), log on to the Integration Directory (SAP NetWeaver PI 7.0x) or Integration Builder (SAP NetWeaver PI 7.1 or higher).
2. SAP NetWeaver PI 7.0x: Select the Configuration Scenario that you created in [Configure Integration Scenario \[page 23\]](#) and click [Edit](#). From the menu, select [► Configuration Scenario ► Integration Scenario](#)

Configurator . In Integration Scenario Configurator, configure the scenario for Send Vendor Master from SAP ERP to SAP Sourcing.

SAP NetWeaver PI 7.1 or higher: Select the Configuration Scenario that you created in [Configure Integration Scenario \[page 23\]](#) and click Edit. From the menu on the right side of the page, select  Configuration Scenario  Model Configurator . In Model Configurator, configure the scenario for Send Vendor Master from SAP ERP to SAP Sourcing.

3. SAP NetWeaver PI 7.0x: In the component view, double-click the connector (→) between [Send Vendor Master to Partner Component](#) and [Receive Supplier Master from ERP](#).  
SAP NetWeaver PI 7.1 or higher: In the component view, click the connector (→) between [Send Vendor Master to Partner Component](#) and [Receive Supplier Master from ERP](#).
4. SAP NetWeaver PI 7.0x: On the Connections from the [Service Assignment](#) tab, position the cursor in the Communication Channel field for Sender Business System Services and, in the dropdown for the [Communication Channel](#) field, select the communication channel that you created for sender business system services in [Configure Integration Scenario for Send Material Master from SAP \[page 39\]](#), and choose OK.  
SAP NetWeaver PI 7.1 or higher: On the Connections from [Component Assignment](#) tab, position the cursor in the Communication Channel field for Sender Business System Components and, in the dropdown for the [Communication Channel](#) field, select the communication channel that you created for sender business system components in [Configure Integration Scenario for Send Material Master from SAP \[page 39\]](#), and choose OK.
5. Repeat steps 6 to 10 of [Configure Integration Scenario for Send Material Master from SAP \[page 39\]](#).

The following table shows the configuration objects that is generated for Send Vendor Master from SAP ERP to SAP Sourcing. The sender business system is SAP ERP, the receiver business system is SAP Sourcing.

Table 43: Configuration Objects Generated for Send Vendor Master from SAP ERP to SAP Sourcing

Sender Interface	Sender Communication Channel	Receiver Interface	Receiver Communication Channel	Interface Mapping
CREMAS.CRE- MAS05	CT_Generic_Sending_HTTP_Channel_For_ERP_Out-bound_IDOCs	MI_IB_Supplier	CT_Supplier_Receiving_File_Channel_For_ES	IM_ERP_Vendor_To_ES_Supplier

## 4.3.1.2.6 Configure Communication Channels for Send Vendor Master from SAP ERP to SAP Sourcing

### Procedure

#### Note

An SAP NetWeaver Process Integration (PI) expert must perform this procedure..

#### Note

Skip this section if you are using SAP NetWeaver PI 7.3 AEX You must manually create this item using the information in [Configuring AEX Communication Channels and Integrated Configurat \[page 113\]](#).

1. In the process integration tools (transaction `SXMB_IFR`), log on to the Integration Directory (SAP NetWeaver PI 7.0x) or Integration Builder (SAP NetWeaver PI 7.1 or higher).
2. Configure the communication channel that is associated with the SAP ERP business system. Double-click the communication channel `CT_Supplier_Receiving_File_Channel_For_ES` and enter the data listed in the following table for that communication channel. In the following table, the name of the communication channel is the name in the standard system. You might have renamed the communication channel when you created it in [Configure Integration Scenarios for Send Vendor Master from SAP \[page 58\]](#).

### **i** Note

The default transport protocol of the file communication channel templates is FTP. Request the FTP details in the following tables (for example, path of FTP directory, IP address of FTP server) from your integration team.

Table 44: Parameters and Values for Communication Channel `CT_Supplier_Receiving_File_Channel_For_ES`

Parameter	Value
Target Directory	Enter the path of the FTP directory.
Server	Enter the fully qualified domain name (FQDN) of the FTP server.
Anonymous Login	Deselect.
User Name	Enter the user name of the FTP account.
Password	Enter the password of the FTP account.

### **i** Note

If you want to use shared file system, see [Transport Protocol Shared File System \[page 109\]](#) for information about how to configure the communication channels.

3. Save your entries.
4. Activate all configuration objects and the configuration scenario as follows:
  1. Expand the change lists on the [Change Lists](#) tab.
  2. Right-click your change list and choose [Activate](#).
  3. In the dialog box that appears, choose [Activate](#).
  4. Some objects are in your change list and some are in the standard change list. Don't forget to activate these objects. Activate the objects in the standard change list before you activate objects in your change list. This activates the communication channel, receiver agreement, sender agreement, and configuration scenario.

This activates the SAP ERP business system and SAP Sourcing business system, communication channels, receiver determinations, interface determinations, receiver agreements, sender agreements, and configuration scenario.

### **i** Note

All data has already been copied from the template for the following communication channel:  
`CT_Generic_Sending_HTTP_Channel_For_ERP_Outbound_IDOCs`.



## 4.3.1.2.7 Create Scheduled Tasks to Import XML Messages for Vendors


### Note

An SAP Sourcing expert must perform this procedure.

### Procedure

1. Log on to SAP Sourcing as a user with system administration rights.
2. Choose [Setup](#).
3. On the [System Setup](#) tab, go to the [Scheduled Tasks](#) section and click [Scheduled Tasks](#).
4. Choose [New](#).
5. Select [Data Import Monitor](#) and choose [Continue](#).
6. Create the scheduled task for materials as shown in the following table:

Table 45

Field	Value
Inactive (Status)	Select this checkbox until you are ready to run the task.
Display Name	Master Data Import
Description	Enter <b>Import of Vendors</b> .
Run As User	Choose a key user.
Frequency	<div>Set the frequency according to your business requirements. However, be aware that running these task too frequently can cause performance issues.</div> <div> <b>Recommendation</b> The tasks run off the same daemon so we recommend <b>three times daily</b></div>
Start Date	As required.
Expiration Date	As required.
On These Days	As required.

7. Click [Data Import Task Configuration](#).
8. Maintain the data import task configuration as shown in the following table:

Table 46

Field	Value
Data Location	FTP
Requires Authentication	Select
FTP Information	Provided by your IT network expert.
Delete Data from FTP Server After Downloading	Select

Field	Value
Upload Directory	Provided by your IT network expert.
Queue Directory	Provided by your IT network expert.
Archive Directory	Provided by your IT network expert.
Receipt Notice Type Completion Notice Type	Be aware that a setting other than <b>None</b> could cause many e-mails or alerts because an e-mail or alert is sent for each import file.

9. Save your entries.

## 4.3.1.2.8 Carry Out Initial Load of Vendors from SAP ERP to SAP Sourcing

### Procedure

#### **i** Note

An SAP ERP expert must perform this procedure.

#### **i** Note

The following procedure describes how to carry out the initial load manually. You can also carry out the initial load in the background. You do this in transaction **SM36** by scheduling a background job for program **RBDSECRE**. You can monitor the background job in transaction **SM37**.

1. In transaction **BD14**, enter your data as shown in the following table:

Table 47: Parameters and Values for Sending Vendors

Field	Value	Example
Account Number of Vendor	Enter the vendors that you want to send.	
Message Type	CREMAS	
Target System	Logical system of SAP Sourcing	SOURCING
Number of Vendors per Process	Remove any value in this field and leave it blank.	

2. Choose **Execute**.
3. This step is necessary only if you selected the output mode **Collect IDocs** when maintaining the partner profile. For more information, see [Maintain Partner Profile for Vendor Transfer from SAP ERP to SAP \[page 56\]](#).  
In transaction **SE38**, execute program **RSEOUT00** to process the IDocs. Enter the parameters as shown in the following table. You can also schedule this program as a background job.

Table 48: Parameters and Values for Program RSEOUT00

Parameter	Value
Basic Type	CREMAS05
Port of Receiver	Enter the port that you created in <a href="#">Maintain Port Definition for Vendor Transfer [page 56]</a>
Logical Message	CREMAS
Maximum Number of IDocs	Enter the number of IDocs to be exported in a single message. The number depends greatly on the message size of the single IDoc. The number can be higher for small objects, but should be lower for large objects. If the message becomes too large, more memory and time is required for extraction in SAP ERP and for mapping in SAP NetWeaver Process Integration.

### Follow-Up Activities

1. In transaction `WE02`, check the IDocs by entering criteria such as the date and time created, direction, and basic type.
2. After a full batch of files is imported, verify the success of the import in SAP Sourcing as follows:
  1. Log on to SAP Sourcing as a user that is scoped to the enterprise context and has the right to import data.
  2. Choose **Setup**.
  3. On the **System Administration** tab, find the **Import and Export Tools** section and click **Import Data**.
  4. In the **Data Import List** dropdown, choose **All Data Imports** (if not already selected).
  5. Correct any file errors and subsequent errors due to missing dependencies. Be sure to correct all errors before importing the next batch of files.

### More Information

[Troubleshooting Integration Issues \[page 109\]](#)

[Mapping of Vendor Master Data from SAP ERP to SAP Sourcing \[page 98\]](#)

## 4.3.1.2.9 Transfer Changes to Vendor from SAP ERP to SAP Sourcing

Whenever there is any change in the vendor master data, change pointers are needed to generate IDocs from the application documents.

### Procedure

#### Note

An SAP ERP expert must perform this procedure.

## Maintain Number Range for Change Pointers

### Note

You do not have to perform this procedure if number ranges are already maintained for Change Pointers (as part of the material transfer configuration). For more information, see [Transfer Changes to Materials Using iDoc \[page 45\]](#).

Internal numbers are assigned to change pointers for unique identification. The system can only generate the numbers if a number range is maintained for number range interval 01.

1. In transaction BDCP, choose [Display Intervals](#) to determine whether a number range is already maintained for interval 01.
2. If no number range is maintained for interval 01, choose [Interval](#) [Maintain](#).
3. On the [Maintain Number Range Intervals](#) screen, choose [Insert Interval](#).
4. Enter interval 01 and a number range, and choose [Insert](#).
5. To verify that the entry is error-free, choose [Interval Check](#).
6. Save your entries.

## Activate Change Pointers – Generally

### Note

You do not have to perform this procedure if number ranges are already activated for Change Pointers (as part of the material transfer configuration). For more information, see [Transfer Changes to Materials Using iDoc \[page 45\]](#).

1. In Customizing for IDoc Interface / Application Link Enabling (ALE) (transaction SALE), choose [Modelling and Implementing Business Processes](#) [Master Data Distribution](#) [Replication of Modified Data](#) [Activate Change Pointers - Generally](#).
2. Select the [Change Pointers Activated – Generally](#) checkbox.
3. Save your entries.

## Activate Change Pointers for Message Type CREMAS

1. In Customizing for IDoc Interface / Application Link Enabling (ALE) (transaction SALE), choose [Modelling and Implementing Business Processes](#) [Master Data Distribution](#) [Replication of Modified Data](#) [Activate Change Pointers for Message Types](#).
2. For message type CREMAS, select the [Active](#) checkbox.
3. Save your entries.

## Create IDocs from Change Pointers

### Note

The following procedure describes how to create IDocs from change pointers manually. You can also create IDocs from change pointers in the background. You do this in transaction SM36 by defining a variant and then scheduling a background job for program RBDMIDOC. This program reads the change pointers and generates IDocs from them.

1. In transaction BD21, enter message type CREMAS to send IDocs for changes to vendors.
2. Choose [Execute](#).
3. This step is necessary only if you selected the output mode Collect IDocs when maintaining the partner profile. For more information, see [Maintain Partner Profile for Vendor Transfer from SAP ERP to SAP \[page 56\]](#). In

transaction SE38, execute program RSEOUT00 to process the IDocs. Enter the parameters as shown in the following table. You can also schedule this program as a background job.

Table 49: Parameters and Values for Program RSEOUT00

Parameter	Value
Basic Type	CREMAS05 for vendors
Port of Receiver	Enter the port that you created in <a href="#">Maintain Port Definition for Vendor Transfer [page 56]</a>
Logical Message	CREMAS for vendors
Maximum Number of IDocs	Enter the number of IDocs to be exported in a single message. The number depends greatly on the message size of the single IDoc. The number can be higher for small objects, but should be lower for large objects. If the message becomes too large, more memory and time is required for extraction in SAP ERP and for mapping in SAP NetWeaver Process Integration.

## 4.3.2 Integration of Suppliers with Multiple SAP ERP Systems

Perform the steps in this chapter only if you want to replicate vendors from multiple SAP ERP systems to SAP Sourcing.

If you are integrating SAP Sourcing with a single SAP ERP system, you can skip this chapter and proceed to the [Business Process Integration \[page 70\]](#) chapter.

### 4.3.2.1 Enable Integration of Suppliers with Multiple SAP ERP Systems

#### Note

An SAP Sourcing expert must perform this procedure.

In this step, you define a system property to enable the integration of suppliers with multiple SAP ERP systems.

#### Procedure

1. Log on to SAP Sourcing with any user that has access to enterprise-level system properties.
2. Choose [Setup](#).
3. On the [System Setup](#) tab, find the [Configuration](#) section and click [System Properties](#).
4. Choose [New](#).
5. Create the system property as shown in the following table.

Table 50

Field	Value
Set	odp.doc
Name	odp.doc.integration.enable.suppliers_to_from_multi_external_systems
Value	TRUE

6. Save your entries.

## 4.3.2.2 Configure Vendor Master from Multiple SAP ERP Systems to SAP Sourcing

### 4.3.2.2.1 Configure Vendor Master for Each SAP ERP System

#### Note

An ERP expert must perform this procedure.

For each SAP ERP system, do the following:

1. [Maintain RFC Destination for Vendor Transfer \[page 54\]](#)
2. [Maintain Port Definition for Vendor Transfer \[page 56\]](#)
3. [Maintain Partner Profile for Vendor Transfer from SAP ERP to SAP \[page 56\]](#)
4. [Maintain Distribution Model for Vendor Transfer \[page 57\]](#)

### 4.3.2.2.2 Configure Vendor Master Integration Scenario and Communication Channel for Each ERP System

In the process integration tools (transaction SXMB\_IFR), log on to the Integration Builder and then open the configuration scenario that you configured for a single SAP ERP system. This is the configuration scenario that you created in Configure Integration Scenarios.

#### Procedure

#### Note

An SAP NetWeaver Process Integration (PI) expert must perform this procedure.

#### Note

Skip this section if you are using SAP NetWeaver PI 7.3 AEX.

## Copy Receiver Determination

1. In the configuration scenario, search for the receiver determination shown in the following table.

Table 51

Field	Value
Communication Component (Sender)	SAP ERP system
Interface	CREMAS.CREMAS05
Namespace	urn:sap-com:document:sap:idoc:messages

2. Choose [Copy Object](#).
3. In the [Communication Component](#) field for the sender, choose the SAP ERP system from the value help. This is the SAP ERP system to which you want to connect.
4. Choose [Copy](#).
5. Repeat steps 2 to 4 for each SAP ERP system that you want to integrate with SAP Sourcing.

## Copy Interface Determination

1. In the configuration scenario, search for the interface determination shown in the following table.

Table 52

Field	Value
Communication Component (Sender)	SAP ERP system
Interface	CREMAS.CREMAS05
Namespace	urn:sap-com:document:sap:idoc:messages
Communication Component (Receiver)	SAP Sourcing system

2. Choose [Copy Object](#).
3. In the Communication Component field for the sender, choose the SAP ERP system from the value help. This is the SAP ERP system to which you want to connect.
4. In the [Add to Scenario](#) field, choose the configuration scenario from the value help.
5. Choose [Copy](#).
6. Repeat steps 2 to 5 for each SAP ERP system that you want to integrate with SAP Sourcing.

## Copy Communication Channel

1. In the configuration scenario, search for the sender communication channel  
CT\_Generic\_Sending\_HTTP\_Channel\_For\_ERP\_Outbound\_IDOCs.

### Note

You may have renamed this communication channel.

2. Choose [Copy Object](#).
3. In the Communication Component field, choose the SAP ERP business system from the value help. This is the SAP ERP system that you imported from the SLD to the Integration Builder.
4. If you wish, rename the communication channel.
5. In the [Add to Scenario](#) field, choose the configuration scenario from the value help.
6. Choose [Copy](#).
7. Repeat steps 2 to 6 for each SAP ERP system that you want to integrate with SAP Sourcing.

## Copy Sender Agreement

1. In the configuration scenario, search for the sender agreement shown in the following table.

Table 53

Field	Value
Communication Component (Sender)	SAP ERP system
Interface	CREMAS.CREMAS05
Namespace	urn:sap-com:document:sap:idoc:messages
Sender Communication Channel	CT_Generic_Sending_HTTP_Channel_For_ERP_Outbound_IDOCs

2. Choose [Copy Object](#).
3. In the [Communication Component](#) field for the sender, choose the SAP ERP system from the value help. This is the SAP ERP system to which you want to connect.
4. In the [Add to Scenario](#) field, choose the configuration scenario from the value help.
5. Choose [Copy](#). Ignore any message to specify a communication channel, or any message that the communication channel does not match the sender.
6. Switch to edit mode.
7. Choose the sender communication channel that you created in [Copy Communication Channel](#) above.
8. Save your entries.
9. Repeat steps 2 to 8 for each SAP ERP system that you want to integrate with SAP Sourcing.

## Copy Receiver Agreement

1. In the configuration scenario, search for the receiver agreement shown in the following table:

Table 54: Copy/Receiver Agreement

Field	Value
Communication Component (Sender)	SAP ERP system
Communication Component (Receiver)	SAP Sourcing system
Interface	MI_IB_Supplier
Namespace	http://sap.com/xi/ESourcing/SRMJS/OP
Receiver Communication Channel	CT_Supplier_Receiving_File_Channel_For_ES

2. Choose [Copy Object](#).
3. In the [Communication Component](#) field for the sender, choose the SAP ERP system from the value help. This is the SAP ERP system to which you want to connect.
4. In the [Add to Scenario](#) field, choose the configuration scenario from the value help.
5. Choose [Copy](#).
6. Repeat steps 2 to 5 for each SAP ERP system that you want to integrate with SAP Sourcing.



### 4.3.2.2.3 Configure Vendor Master Integration Scenario and Communication Channel for Each ERP System (NetWeaver PI 7.3 AEX)

#### Procedure

##### **i** Note

This section describes how to configure send supplier communication channels and integrated scenarios if you are using SAP NetWeaver PI 7.3 AEX

##### **i** Note

An SAP NetWeaver Process Integration (PI) expert must perform this procedure.

1. In the process integration tools (transaction SXMB\_IFR), log into the Integration Builder and open the configuration scenario that you configured for a single SAP ERP system. This is the configuration scenario that you created in [Configure Integrated Scenarios for SAP NetWeaver PI 7.3 AEX \[page 24\]](#).
2. In the configuration scenario, search for the sender communication channel [CT\\_Generic\\_Sending\\_HTTP\\_AAE\\_Channel\\_For\\_ERP\\_Outbound\\_IDOCs](#).
3. Choose [Copy Object](#).
4. In the Communication Component field, choose the [SAP ERP business system](#) from the value help. This is the SAP ERP system that you imported from the SLD to the Integration Builder.
5. (optional) Rename the communication channel.
6. In the [Add to Scenario](#) field, choose the configuration scenario from the value help.
7. Choose [Copy](#).
8. Save your entries.
9. In the configuration scenario, search for the Integrated Configuration shown in the following table:

Table 55

Field	Value
Communication Component (Sender)	SAP ERP system
Interface	CREMAS.CREMAS05
Namespace	urn:sap-com:document:sap:idoc:messages

10. Choose [Copy Object](#).
11. In the [Communication Component](#) field for the sender, choose the SAP ERP system from the value help. This is the SAP ERP system to which you want to connect.
12. Choose [Copy](#) .  
Ignore any error/information messages about (or similar to) the communication channel not matching the sender.
13. Switch to [Edit mode](#).
14. In the [Inbound Processing](#) tab, choose the sender communication channel that you created in Step 3.
15. Save your changes.
16. Repeat all of the steps in this procedure for each SAP ERP system that you want to integrate with SAP Sourcing.

## 5 Business Process Integration

The standard integration of SAP Sourcing with SAP SRM supports the following business process:

- SAP Sourcing Agreements and SAP SRM Central Contract Integration  
This business process integration enables you to initiate the creation, update, and cancellation of SAP SRM Central Contracts from SAP Sourcing Agreements.

### Note

This solution uses synchronous HTTP requests to transfer data from SAP Sourcing to SAP SRM. It is not intended for use in scenarios that include large volume data transfers. For example, Master Agreements containing significantly more than 1000 line items are examples of large volume data transfers published to SAP SRM.

### 5.1 Maintain Customizing Data for Business Document Integration

#### 5.1.1 Transaction Types for SAP SRM

##### 5.1.1.1 Create Transaction Type in SAP SRM

#### Procedure

1. In the SAP Supplier Relationship Management system, start transaction [SPRO](#) and select [SAP Reference IMG](#) from the top-level menu.
2. In the [Display IMG](#) screen, expand [SAP Supplier Relationship Management](#).
3. Expand [SRM Server](#), and [Cross-Application Basic Settings](#).
4. Execute the IMG activity [Define Transaction Types](#).
5. A set of all Business Object IDs displays on the right side of the application page. Select [BUS2000113](#), then double-click the [Transaction Types](#) sub-folder on the left side of the page.
6. By default, two Transaction Types — [CCTR](#) (Central Contract) and [PCTR](#) (Purchasing Contract) — are delivered by SAP. You can create a new transaction type by clicking [New Entries](#).
7. Double-click one of the transaction types (existing or newly-created) and verify all of the configuration settings (such as [Number Ranges](#), [Text Schema](#), [Event Schema](#), [Partner Determination Procedure](#)).

### Note

Make sure that the [Text Schema](#) setting is set to [CTR](#). See [Text IDs \[page 71\]](#) for more information.

You should assign any newly-created transaction type to organizational Units as an attribute using Transaction Code [PPOMA\\_BBP](#). Typically, this assignment is done at a high-level organizational unit such as the company/purchaser organization or department. All sub-organizational units automatically inherit this attribute.

## 5.1.1.2 Configuring Transaction Type in SAP Sourcing

### Procedure

1. In the SAP Supplier Relationship Management system, start transaction [SPRO](#) and select [SAP Reference IMG](#) from top-level menu.
2. In the [Display IMG](#) screen, expand [SAP Supplier Relationship Management](#).
3. Expand [SRM Server and Cross-Application Basic Settings](#).
4. Execute the IMG activity [Define Transaction Types](#).
5. From the [Display View Transaction Object Types: Overview](#) section, select the line for [Contract](#) and double-click [Dialog Structure Transaction Types](#) on the left side of the interface.
6. Note the value in the [Trans.Type](#) column for entries [CCTR](#), [PCTR](#), and any customer-specific entries that need to be created in SAP Sourcing.
7. Log in to SAP Sourcing as a user with permission to edit transaction types.
8. Select [Setup](#).
9. In the Master Data tab, click [Transaction Type](#).

The following steps allow you to create entries for [CCTR](#), [PCTR](#), and any other customer-specific entries that need to be replicated from SRM. You must create at least one entry for [CCTR](#) and [PCTR](#).

10. Select [New](#).
11. Select the checkbox for [Replicated](#).
12. Enter a value for [ID](#) field. This is the value from column [Trans.Type](#) in Step 6.
13. Using the Business System field picker, open the list of all business systems, select the SAP SRM business system, and click [OK](#).
14. Enter a [Name](#) and select a [Language](#).
15. Enter a Description and select a [Language](#).
16. Save the new Transaction Type.

Alternatively, you can import transaction types into SAP Sourcing by creating a CSV file with the same fields/parameters specified in this procedure.

## 5.1.2 Text IDs

### 5.1.2.1 Create Text IDs in SAP SRM

#### Procedure

The following are configuration steps for creating text IDs required in the SAP Sourcing Master agreement to SAP SRM central contract replication.

1. In the SAP Supplier Relationship Management system, start transaction [SPRO](#) and select [SAP Reference IMG](#) from the top-level menu.
2. In the [Display IMG](#) screen, expand [SAP Supplier Relationship Management](#).
3. Expand [SRM Server, Cross-Application and Basic Settings, and Text Schema](#).
4. Execute the IMG activity [Define Text Types](#).
5. Under [Text Types](#), select the [BBP\\_PD](#) text object, and double-click the dialog structure to ensure that text ID [ETXT](#) is available. Otherwise, create a new entry for the text ID [ETXT](#) with description [External Text](#).
6. Navigate back and select [Define Text Schema](#).

7. Create a new schema or use the standard text schema [CTR](#).
8. Click on [Text for Schema](#) on the left side dialog structure.
9. Make sure the text IDs listed below are available.

Table 56

ID	Description	Header/ Item	Visible
ETXT	External text	Header and Item	For all Users

## 5.1.2.2 Configure Text IDs in SAP Sourcing

### Procedure

1. In the SAP Supplier Relationship Management system, start transaction [SPRO](#) and select [SAP Reference IMG](#) from top-level menu.
2. In the [Display IMG](#) screen, expand [SAP Supplier Relationship Management](#).
3. Expand [SRM Server, Cross-Application Basic Settings](#) and [Text Schema](#).
4. Execute the IMG activity [Define Text Schema](#).
5. From the [Change View "Schema": Overview](#) screen, select the line for [Contract](#) and double-click on [Dialog Structure Texts for Schema](#) on the left side of the interface.
6. Note the value in column [ID](#) and [Headr/Item](#) for entries for [ETXT](#) and any customer-specific entries that need to be created in SAP Sourcing.

#### Note

You can add your own custom text IDs in addition to ETXT entries.

7. Log in to SAP Sourcing as a user with permission to create and edit text IDs.
8. Select [Setup](#).
9. In the Master Data tab, click [Text Id](#).  
The following steps allow you to create entries for ETXT and any other customer-specific entries that need to be replicated from SAP SRM. You must create at least one entry for ETXT.
10. Select [New](#).
11. Select the checkbox for [Replicated](#).
12. Enter a value for field [ID](#). This is the value from column [ID](#) in Step 6.
13. Using the Business System field picker, open the list of all business systems, select the SRM business system, and click [OK](#).
14. For [Text Id Type](#), enter a value that corresponds to the value in the [Headr/Item](#) column (in Step 6).
15. Enter a [Name](#) and select a [Language](#).
16. Enter a Description and select a [Language](#).
17. Save the new Text Id.

Alternatively, you can import Text IDs into SAP Sourcing by creating a CSV file with the same fields/parameters specified in this procedure.

#### Note

If an SAP SRM Text Id entry has the value Header and Item in the [headr/Item](#) column (in Step 6), you must create two separate entries in SAP Sourcing for that SAP SRM Text Id; one for the header and another for the item type.

## 5.1.3 Price Conditions

### 5.1.3.1 Configure Pricing Condition Types for Header and Item in SAP SRM

#### Procedure

The following steps allow you to setup the pricing condition types that are required for SAP Sourcing Master Agreement to SAP SRM Central Contract replication.

1. Go to transaction code [SPRO](#) > [SAP Reference IMG](#) > [SAP Implementation Guide](#) > [SAP Supplier Relationship Management](#) > [SRM Server](#) > [Cross-Application Basic Settings](#) > [Pricing](#) .
2. Select [Process Condition Types](#) and then create the different condition types that are necessary for SAP Sourcing integration.
3. Select [Process Condition Groups](#) and enter 01HD for the Maintenance Group. This group is used for contract header conditions.
4. Click [New Entries](#).
5. Add the following conditions for Contract Header:

Table 57

Application	Usages	Condition Table	Condition Type	Decription
BBP	PR	SAP019	01RH	Discount Percentage
BBP	PR	SAP019	01AG	Discount Percentage

6. Repeat steps 3, 4, and 5 to add the following conditions for Process Condition Group '0100 (this group is used for item level conditions):

Table 58

Application	Usages	Condition Table	Condition Type	Decription
BBP	PR	SAP016	0100	Price (old)
BBP	PR	SAP016	01CT	Contract
BBP	PR	SAP016	01RA	Absolute Discount
BBP	PR	SAP016	01RP	Percentage Discount

### 5.1.3.2 Authorization Provision for New Pricing Condition Types Procedure

Standard SRM roles for strategic purchasers provide access to a predefined set of condition types. In order to allow the usage of new conditions by strategic purchaser, you must extend the standard role of the strategic purchaser. The following table lists the standard role for a strategic purchaser for specific releases of SAP SRM.

Table 59: SAP Standard role for Strategic Purchaser

SRM Release	SAP Standard Role for Strategic Purchaser	Role Description
-------------	---	------------------

SRM 700	/SAPSRM/ST_PURCHASER	SAP SRM: Strategic Purchaser
SRM 701	/SAPSRM/ST_PURCHASER_EHP1	SAP SRM Enhancement Pack 1: Strategic Purchaser
SRM 702	/SAPSRM/ST_PURCHASER_EHP2	SAP SRM Enhancement Pack 2: Strategic Purchaser

The following steps describe how to add and configure an authorization object for the Strategic Purchaser Role.

1. Use the transaction [PF04](#) and make a copy of the SAP Standard role for Strategic Purchaser in the customer namespace with all available authorizations.
2. Edit the this role and click the [Authorizations](#) tab.
3. Next to the [Change Authorization Data](#) field, click [Edit](#).
4. Search for the [/SAPCND/CM](#) authorization object.
5. Click [+Manually](#) to manually add the new authorization object.
6. Enter the name of the authorization object as [/SAPCND/CM](#).
7. Specify values listed in the table below:

Table 60: Authorization Object Values

Field	Value
/SAPCND/AP (Application as Condition Technique)	BBP
/SAPCND/CT (Condition Table)	SAP001 SAP016 SAP019 SAP068 SAP116 SAP118
/SAPCND/TY (Condition Types)	0100 01AG 01BE 01CG 01CT 01PB 01PV 01RA 01RH 01RP 01SP
/SAPCND/US (Usage for Condition Technique)	PR
ACTVT (Activity)	01 (Create or Generate) 02 (Change) 03 (Display)

8. Save the role.
9. Assign the role to the user/strategic purchaser who manages Central Contracts.

### 5.1.3.3 Create Price Conditions in SAP Sourcing

There are two ways to create pricing conditions in SAP Sourcing:

#### 5.1.3.3.1 Extract Price Conditions from SAP SRM

Extracting price conditions from SAP SRM involves the following tasks:

##### 5.1.3.3.1.1 Export Pricing Conditions from SAP SRM

###### Procedure

The following steps export the SAP SRM pricing condition types:

1. Go to Transaction code [SE38](#) in SAP SRM.
2. Execute the report [/ESOSRMIN/BBP\\_CONDDATA\\_EXTRACT](#). This report extracts SAP SRM pricing conditions and exports the data in XML format.

###### Note

The report is only viewable by using the ESOSRMIN add-on software component.

3. Use the [BADIs /ESOSRMIN/BBP\\_EXT\\_CHANGE\\_DATA](#) (Allow Modification of Value or XML Nodes) and [/ESOSRMIN/BBP\\_EXT\\_DOWNLOAD\\_XML](#) (Download XML Files in a Different Location (FTP Server)) to perform customer-specific changes.

##### 5.1.3.3.1.2 Import Price Conditions to SAP Sourcing

###### Procedure

1. Log in to SAP Sourcing and go to [► Set up ► System Administration ► Import Data](#).
2. Click [New](#) and select [Upload to Server](#). Locate the exported XML file and follow the instructions in the import wizard to complete the import process.
3. Verify that the import succeeded and that all the price condition types were imported into the system.

## 5.1.3.3.2 Manually Create Price Conditions in SAP Sourcing

### Note

An SAP Service Delivery consultant must perform this procedure.

An SAP Sourcing expert must perform this procedure.


### Prerequisites

The corresponding price condition types exist in SAP SRM.

### Procedure

1. Log on to SAP Sourcing as a user with the rights to create and edit Price Conditions.
2. Choose [Setup](#).
3. On the [Master Data](#) tab, find the [Master Data](#) section and click [Price Conditions](#).
4. Choose [New](#).
5. Create the new price condition. Information is provided for certain fields in the following table. The values for the other fields depend on your requirements.

Table 61: Fields and Values for Price Conditions

Field	Value
Condition Type ID	Enter an ID, for example, <b>FROO</b> . It must be unique in SAP Sourcing, but can be the same as the corresponding price condition type ID in SAP SRM.
Name	Choose the desired language from the dropdown and enter a name and description in that language.
Description	 <b>Example</b> You can use the description to explain to your suppliers how the price condition is used in the SAP Sourcing process.
Business System	Choose the SAP SRM business system from the picker.

6. Save your entries and create the next price condition.

### Result

You have completed the necessary master data configuration for integrating the price conditions. The next step is to add the new price conditions to the integrated document type.



## 5.1.4 Configure SRM Integrated Master Agreement and Sub-agreement Numbering Table

Each Master Agreement type (for example, Standard, ERP Integrated, and SRM Integrated Master Agreements) can have its own business rules and options. One useful item you can use is option to define separate numbering schemes. For SAP SRM integrated agreements, the master agreements and sub-agreements must have different numbering schemes. The numbering definition rules for SAP SRM integrated agreements are as follows:

- The generated ID number must contain a generated sequential number and either a prefix, a suffix, or both.
- The prefix, suffix, or the combination of both must be different for a Master Agreement and a sub-agreement.
- The total length of the generated ID number cannot exceed 35 characters.

To create new numbering table definitions or modify existing ones for Master Agreement, do the following steps (for sub-agreements, modify the existing default numbering table definition):

### Procedure

1. Click [Setup](#) in the Toolbar at the top of the page.
2. In the Master Data tab, click on [Numbering Table Definition](#) in the Master Data area.
3. On the Numbering Table List page, click [New](#) to create a new numbering table definition, or click [Edit](#) to open an existing definition in edit mode.
4. Specify the following information to create or edit the numbering table:

Table 62

Field/Parameter	Description
Name	The name of the table.
Class Name	For a new numbering table definition for Master Agreement, select <a href="#">Master Agreement</a> from the drop-down list. Otherwise, do not modify this value.
Use as Class Default	For a new numbering table definition for Master Agreement, select this parameter to use this numbering table as the default table.
Table ID	This field appears if you clear the Use as Class Default checkbox. Enter a unique ID for this non-default numbering table.
Prefix	(optional) Enter a prefix or token.
Postfix (or Suffix)	(optional) ) Enter a suffix or token.
Sequence Number Width	Specify a maximum width for the generated sequential number in the object ID. The default value is 10.
Sequence Number Padded	Select this checkbox to set the width of the generated sequential number. This ensures that it always matches the value in the Sequence Number Width field.
Start Number	Object numbers are generated from starting point you specify in this field. The default value is 1.
Number Incremented By	Object numbers are generated based on the increments you specify in this field. The default value is 1.

5. Click [Save](#) .

## 5.1.5 SAP SRM Integrated Document Types for RFx and Agreement

This section describes how to create and verify document types for the SAP SRM / SAP Sourcing integration process.

### 5.1.5.1 Create SAP SRM Integrated Document Types for RFx and Agreement

To successfully integrate SAP SRM with SAP Sourcing, you must create SRM integrated document types in the system. There are two ways to do this:

- Add SRM integrated document types to the workbook, and import the workbook.
- Manually create the SRM integrated document type in the system.

#### Procedure

Add SRM integrated document types to the workbook:

1. Open the workbook and go to the Contract Types tab to add agreement types. The table below lists examples of SRM integrated document types for agreements:

Table 63: Examples of SRM Integrated Document Types for Agreements

DISPLAY_NAME	SRM Integrated Agreement
DOCTYPE_DESCRIPTION	Use this agreement type when replicating the Agreement to a backend SRM system.
DOCTYPE_DESCRIPTION_LANGUAGE	
SUPPORT_ATTACHMENT	TRUE
SUPPORT_DISCUSSION	TRUE
SUPPORT_CHAT	TRUE
SUPPORT_ACCOUNTING	TRUE
REQUIRES_INT_CAT	FALSE
ALLOW_DUPLICATION	TRUE
PERPETUAL_TERM	FALSE
BUYER_SEARCHABLE	
VENDOR_VISIBLE	
INTEGRATED_SYSTEM	SRM
CONTRACT_FEATURES	AGREEMENTS+TERMS+LINE_ITEMS
AGREEMENT_FEATURES	TERMS+LINE_ITEMS
VALUE_METRIC_FEATURES	

PERF_METRIC_FEATURES	
METRIC_TYPE	AGREEMENT
SCHEDULE_WORK_DAYS	
CREATE_DEFAULT_LI_GROUP	TRUE
DEFAULT_LI_GROUP_NAME_ID	contracts\$contracts.contracttype.default_li_group.display_name
TRANSACTION_TYPE	CCTR
TRANS_TYPE_OBJ	CONTRACT
DEFT_HDR_TXT_ID	ETXT
DEFT_LI_TXT_ID	ETXT
USE_EXTERNAL_VALIDATION	TRUE
PRICING_CONDN	<p>Using the conditions extracted from SAP SRM, enter at least one material price condition and one service price condition. Enter the values in the following format:</p> <p>&lt;NAME of condition&gt;@&lt;ID of the business system from which the condition was extracted&gt;@&lt;MATERIAL or SERVICE&gt;.</p> <p>For example,</p> <p>PB00@SAPSRM1@MATERIAL;PRS3@SAPSRM@SERVICE</p>

2. Save and import the Workbook.

## 5.1.5.2 Verify Integration Information for Agreement Document Types

### Procedure

1. Log on to SAP Sourcing with any user that has access to this object.
2. Select [Setup](#).
3. On the [Document Setup](#) tab, find the [Agreements](#) section and choose [Master Agreement Types](#).
4. Click the SRM integrated document type.
5. On the [Type](#) tab, verify that the value of integrated system type is SRM.
6. On the [Integration Details](#) tab, verify that values are entered for the attributes in the following table.

Table 64: SRM Integrated Documents Type Attributes and Values for Contract

Attribute	Value***
Default Header Text	ETXT
Default Line Item Text	ETXT
Default Transaction Type	CCTR

\*\*\* The values in this table are example values.

### Note

Values must exist in SAP Sourcing and in SAP SRM; for more information, see [Master Data Integration \[page 27\]](#).

7. Verify that at least one price condition of type [material](#) and of type [service](#) is maintained in the SRM integrated Agreement document type. See [Transaction Types for SAP SRM \[page 70\]](#) and [Text IDs \[page 71\]](#) for more information.
8. Verify [Allow SAP SRM to Maintain Line Items \(For Agreements and For Sub-Agreements\)](#). This option is used to configure the source of line item maintenance in the agreements. If this option is selected, you need SRM to maintain the line items for the contract and therefore the [Line Items](#) tab in the agreement does not appear. This option overrides the [Line Items](#) option in the [Type](#) tab for Master and Sub-Agreements.

## 5.1.5.3 Configure Master Agreement Type to Use Non-default Numbering Table

### Procedure

If you defined a non-default numbering definition for Master Agreement in [Configure SRM Integrated Master Agreement and Sub-agreement Numb \[page 77\]](#), and you want to use the definition when you create the Master Agreement, do the following steps:

1. Click [Setup](#) in the Toolbar at the top of the page.
2. Go to Document Setup tab and click [Master Agreement Types](#) in the Agreements section.
3. In the Master Agreement Type list page, click [SRM Master Agreement Type](#) definition, then click [Edit](#).
4. Click the picker button for the field Numbering Table and select the new Numbering table to reference.
5. Click [OK](#).
6. Save the Master Agreement type.

## 5.2 Configure SAP NetWeaver PI for SAP Sourcing Master Agreement and SAP SRM Contract Integration

### Prerequisites

- [Basic Configuration in SAP NetWeaver Process Integration \[page 18\]](#)

## 5.2.1 Configure Integration Scenarios for SAP Sourcing Master Agreement and SAP SRM Central Contract Integration

### Procedure

#### Note

An SAP NetWeaver Process Integration (PI) expert must perform this procedure.

1. In the process integration tools (transaction `SXMB_IFR`), log into the Integration Directory (SAP NetWeaver PI 7.0), or Integration Builder (SAP NetWeaver PI 7.1).
2. Depending on the version of SAP NetWeaver PI you are using, do one of the following:
  - SAP NetWeaver PI 7.0x: Select the Configuration Scenario that you created in [Configure Integration Scenarios \[page 23\]](#) and click **Edit**. From the menu, select **► Configuration Scenario ► Integration Scenario Configurator ►**. In **Integration Scenario Configurator**, you can configure the scenario.
  - SAP NetWeaver PI 7.1x or higher: Select the Configuration Scenario that you created in [Configure Integration Scenarios \[page 23\]](#) and click **Edit**. From the menu on the right side of the page, select **► Configuration Scenario ► Model Configurator ►**. In **Model Configurator**, you can configure the scenario.
3. In the component view, double-click the connector icon between **Action for Creating Contract in SRM from Agreement** and **Action for Purchasing Contract Creation in SRM**.
4. If required, change the configuration scenario name and select **Finish**, then **Close**. The configurator screen appears.
5. Depending on the version of SAP NetWeaver PI you are using, do one of the following:
  - SAP NetWeaver PI 7.0x: In the **Connections from the Service Assignment** tab, position the cursor in the **Communication Channel** field for **Sender Business System Services** and (in the drop-down menu for the **Create** icon) select **Create Communication Channel with Template**.
  - SAP NetWeaver PI 7.1 or higher: In the **Connections from Component Assignment** tab, position the cursor in the **Communication Channel** field for **Sender Business System Components** and (in the drop-down menu for the **Create** icon) select **Create Communication Channel with Template**.
6. In the dialog box that appears, click **Continue**. Click **Continue** again, then note/record the name of the communication channel. If you want, you can rename the communication channel.

#### Note

Make sure to note/record the original name and the new name for the communication channel if you rename this item.

7. Click **Finish**, then click **Close**.
8. Repeat steps 6, 7, and 8 for **Communication Channel** field for **Receiver Business System Services**.
9. Click **Apply**.
10. Navigate to **► Settings ► Apply Changes and Save Configuration Scenario ►**.
11. Repeat Steps 4 to 10 for for connection between **Action for Updating Contract in SRM from Agreement** and **Action for Cancelling Contract in SRM from Agreement**.
12. Depending in the version of SAP NetWeaver PI you are using, do one of the following steps to generate configuration objects
  - SAP NetWeaver PI 7.0x: In the **Configuration Steps** click **Generate**.
  - SAP NetWeaver PI 7.1 or higher: Click the **Create Configuration Objects** tooltip icon. In the dialog box that displays, select **Generation** and ensure that all three checkboxes under **Scope of Generation** are selected. Then, select **Create New** and click **Start**.

The table below lists the configuration objects that are generated for creation, update and cancellation actions for this configuration scenario.

Table 65

Sender Interface	Sender Communication Channel	Receiver Interface	Receiver Communication Channel	Interface Mapping
MI_ES_Agreement	CT_Generic_Sending_HTTP_Channel_For_ES_Documents_To_SRM	PurchasingContractSRMCreateRequestConfirmation_In	CT_Generic_Receiving_XI_Channel_For_SRM_Inbound_ESOA_Services	IM_ES_AGREEMENT_TO_SRM_CONTRACT_01
MI_ES_Agreement	CT_Generic_Sending_HTTP_Channel_For_ES_Documents_To_SRM	PurchasingContractSRMUpdateRequestConfirmation_In	CT_Generic_Receiving_XI_Channel_For_SRM_Inbound_ESOA_Services	IM_ES_AGREEMENT_TO_SRM_CONTRACT_02
MI_ES_Agreement	CT_Generic_Sending_HTTP_Channel_For_ES_Documents_To_SRM	PurchasingContractSRMCancelRequestConfirmation_In	CT_Generic_Receiving_XI_Channel_For_SRM_Inbound_ESOA_Services	IM_ES_AGREEMENT_TO_SRM_CONTRACT_03

## 5.2.2 Configure Communication Channels for SAP Sourcing Master Agreement and SAP SRM Central Contract Integration

### Procedure

#### Note

An SAP NetWeaver Process Integration (PI) expert must perform this procedure.

1. In the process integration tools (transaction `SXMB_IFR`), log into the Integration Directory (SAP NetWeaver PI 7.0), or Integration Builder (SAP NetWeaver PI 7.1).
2. Configure the communication channels that are associated with the SAP SRM business system. Double-click a communication channel and enter the data listed in the following table for that communication channel. Note that the names of the communication channels in the table are the names in the standard system. You might have renamed the communication channels when you created them in [Configure Integration Scenarios for Managing Contracts in SAP SR \[page 81\]](#)

Table 66: Parameters and Values for Communication Channel:  
CT\_Generic\_Receiving\_XI\_Channel\_For\_SRM\_Inbound\_ESOA\_Services

Parameter	Value
Adapter Type	XI, <a href="http://sap.com/xi/XI/System">http://sap.com/xi/XI/System</a> , SAP BASIS 7.02
Select	Receiver
Transport protocol	HTTP 1.0

Message Protocol	XI 3.0
Adapter Engine	Integration Server
Addressing Type	HTTP Destination
HTTP Destination	Logical System of SAP SRM business system created previously. For example, E9UCLNT300
Transfer Hop List	Checked

3. Configure the communication channels that are associated with the SAP Sourcing business system. Double-click a communication channel and enter the data listed in the following table for that communication channel. Note that the names of the communication channels in the table are the names in the standard system. You might have renamed the communication channels when you created them in [Configure Integration Scenarios for Managing Contracts in SAP SR \[page 81\]](#).

Table 67: Parameters and Values for Communication Channel:  
CT\_Generic\_Sending\_HTTP\_Channel\_For\_ES\_Documents\_To\_SRM

Parameter	Value
Adapter Type	XI, http://sap.com/xi/XI/System, SAP BASIS 7.02
Select	Sender
Transport protocol	HTTP 1.0
Message Protocol	XI Payload in HTTP Body
Adapter Engine	Integration Server
HTTP Security Level	HTTP
Adapter-Specific Message Attributes	Unchecked

4. Activate all configuration objects and the configuration scenarios as follows:
  1. Expand the change lists in the [Change Lists](#) tab.
  2. Right-click your change list and select [Activate](#).
  3. In the dialog box that appears, select [Activate](#).
  4. Most objects are in your change list. However, some remain in the standard change list. Make sure to activate these objects too.
5. Activate the following items:
  - The SAP SRM business system and SAP Sourcing business system
  - Communication channels
  - Receiver determinations
  - Interface determinations
  - Receiver agreements
  - Sender agreements
  - Configuration scenarios

## 5.2.3 Configure Interface Determination

### Procedure

#### Note

An SAP NetWeaver Process Integration (PI) expert must perform this procedure.

1. In the process integration tools (transaction SXMB\_IFR), log on to the Integration Directory (SAP NetWeaver PI 7.0) or Integration Builder (SAP NetWeaver PI 7.1).
2. Depending on the version of SAP NetWeaver PI you are using, do one of the following:
  - SAP NetWeaver PI 7.0x: Select the Configuration Scenario that you created in [Configure Integration Scenarios \[page 23\]](#) and click Edit. From the menu, select ► Configuration Scenario ► Integration Scenario Configurator . In Integration Scenario Configurator, you can configure the scenario.
  - SAP NetWeaver PI 7.1x or higher: Select the Configuration Scenario that you created in [Configure Integration Scenarios \[page 23\]](#) and click Edit. From the menu on the right side of the page, select ► Configuration Scenario ► Model Configurator . In Model Configurator, you can configure the scenario.
3. Configure the Interface Determination that is associated with the SAP SRM receiver service and SAP Sourcing sender service.
4. Click the [Objects](#) tab, and then click the pencil icon in the menu to switch to Edit mode from Display mode.
5. Double-click the Interface Determination that is associated with SAP SRM.
6. In the [Configured Inbound Interfaces](#) (SAP NetWeaver PI 7.0) or [Receiver Interfaces](#) (SAP NetWeaver PI 7.1 or higher), add the three inbound interfaces (if not already added) as listed in the table below:

Table 68

Inbound Interface		Condition	Interface Mappings	
Name	Namespace		Name	Namespace
PurchasingContractSRMCreateRequestConfirmation_In	http://sap.com/xi/ESOSRMINT/Global2	(/p1:MT_Agreement/fcdataexport/objects/object/fields/ACTION_CODE = 01) OR (/p1:MT_Agreement/fcdataexport/objects/object/fields/ACTION_CODE = )	IM_ES_AGREEMENT_TO_SRM_CONTRACT_01	http://sap.com/xi/ESourcing/SRMJS
PurchasingContractSRMUpdateRequestConfirmation_In	http://sap.com/xi/ESOSRMINT/Global2	(/p1:MT_Agreement/fcdataexport/objects/object/fields/ACTION_CODE = 02)	IM_ES_AGREEMENT_TO_SRM_CONTRACT_02	http://sap.com/xi/ESourcing/SRMJS



Inbound Interface		Condition	Interface Mappings	
PurchasingContractS RMCcancelRequestCo nfirmation_In	http://sap.com/xi/ ESOSRMINT/Global2	(/p1:MT_Agreement/ fcidataexport/ objects/object/ fields/ ACTION_CODE = 03)	IM_ES_AGREEMENT_ TO_SRM_CONTRACT _03	http://sap.com/xi/ ESourcing/SRMJS

7. Create the conditions as shown in above table. On each row, click the [Condition](#) select button.
8. In the [Condition Editor](#) choose the Menu icon for [Insert Expression](#).
9. Select the [ACTION\\_CODE](#) field (from the path [▶ MT\\_Agreement ▶ fcidataexport ▶ objects ▶ object ▶ fields ▶ ACTION\\_CODE ▶](#)) on the [Left Operand](#). Select [01](#) as the value in the [Right Operand](#),



### Example

For the first row. Add another condition in the same group for the same [Left Operand](#) with no value in the [Right Operand](#) for the 1st row, using [Insert Group](#) from the menu.

## 6 Appendix

### 6.1 Optimizing Performance for Synchronous Calls from SAP Sourcing to SAP ERP via PI

Refer to this section to optimize performance when publishing business documents from SAP Sourcing are to SAP ERP through PI using the standard integration interfaces of SAP Sourcing.

#### Features

Settings Relevant for All Netweaver Systems (ERP/PI/Sourcing/Web Dispatcher)

Configure ICM on all Netweaver systems (including Web Dispatcher, if used). The following parameters control ICM timeouts:

Table 69

Parameter	Description	Error Displayed
icm/conn_timeout	Connection Timeout. Used to set the timeout when setting up the connection.	404 Resource not found, Partner not reached
icm/keep_alive_timeout	Keepalive Timeout. The keepalive timeout specifies how long the network should remain open after a request has been processed successfully so that the TCP/IP connection does not have to be reestablished if additional requests are received.	Exceeding the Keepalive timeout should never cause an error.
icm/server_port_< n >... PROCTIMEOUT=< s >	Processing Timeout. Server: The processing timeout specifies the time that the ICM will wait until a response is received from the SAP Web Application Server (AS ABAP or AS Java). Client: The processing timeout states the amount of time that the ICM waits until a response is received from the network.	500 Connection timed out

For additional information, see SAP Note [824554](#): ICM and SAP Web Dispatcher Timeout Parameter, and adjust the ICM parameter on the three involved systems. Also see SAP Note [384971](#): System Parameters for High Interface Load (this is also valid for the 7.3 system) and make the necessary changes. The ICM can forward incoming HTTP connections to the SAP Web Application Server for processing. The ICM then serves as the HTTP server. The ICM can also forward outgoing HTTP connections from the SAP Web Application Server to other HTTP servers. The ICM then serves as the HTTP client.

We recommend, for example, the following settings:

icm/server\_port\_0 : PROT=HTTP, PORT=1080, TIMEOUT=60, PROCTIMEOUT=600 to allow a maximum processing time of 10 minutes.

The same timeout parameters are available for the SAP Web Dispatcher as for the ICM. You can change them in the profile file of the SAP Web Dispatcher (for example, sapwebdisp.pfl). We recommend that you set the same parameters in the SAP Web Dispatcher and ICM.

### Settings Relevant for SAP PI

In addition to the ICM parameter settings above, which must be set on all Netweaver systems, there are recommended parameters specific to the individual solutions. These are as follows:

Table 70

Parameter	Description	Error Displayed
HTTP_TIMEOUT Change via SXMB_ADMIN or SMICM and go to ► <a href="#">Display Services</a> ► <a href="#">Change for Testing</a> ►. Make change persistent in RZ11 afterwards.	Timeout default for HTTP connections (time between two data packages passing along a cable). This value overrides the system profile parameter icm/server_port_n (for example, icm/server_port_0 : PROT=HTTP, PORT=50044, TIMEOUT=900). If the parameter HTTP_TIMEOUT is not set, or, if you enter the value 0, then the setting for the system profile parameter is applied.	SXMB_MONI error code ICM_HTTP_TIMEOUT
xiadapter.inbound.timeout.default Change via Netweaver Administrator. Go to ► <a href="#">Operation Management</a> ► <a href="#">Systems</a> ► <a href="#">Start &amp; Stop</a> ► <a href="#">Java Services</a> ► <a href="#">Related Tasks</a> ► <a href="#">Java System Properties</a> ►.	Controls the length of time the messaging system waits for a response during synchronous communication.	MessageExpired

### Settings Relevant for SAP ERP

Table 71

Parameter	Description	Error Displayed
rdisp/mas_wprun_time	A system parameter in SAP used to terminate unending loops and other unintended long running transactions. The setting of the parameter rdisp/mas_wprun_time can lead to work process termination or report termination (with error message SY 098: "Time limit exceeded").	ABAP Shortdump "TIME_OUT"

### Settings relevant for SAP Sourcing

#### System Properties

Log on as the system user and set the following system properties in SAP Sourcing.

Table 72

System Property	Description	Error Displayed
upp, upp.metering.login_inactivity_timeout	Set to the timeout that was chosen when running the configure utility.  For more information, see the Configuration Guide for SAP Sourcing.	Redirects to login page at the next user action.
upp, upp.metering.cleanup_interval	Defines the time between runs of the daemon, which removes inactive sessions. It is recommended that this value be set to a value that is slightly larger than the upp.metering.login_inactivity_timeout setting.  For more information, see the Configuration Guide for SAP Sourcing.	None.
displayFramework, transactionTimeout.millis		Page cannot be displayed.

### SAP Sourcing Configure Tool

Table 73

Parameter	Description	Error Displayed
Time-out	Set to the timeout that was chosen when running the configure utility.  For more information, see the Configuration Guide for SAP Sourcing.	Redirects to the login page at the next user action.

Set the time-out using the configure tool. For information about the configure tool, see the Installation Guide for SAP Sourcing on the SAP Service Marketplace.

#### Note

Both the internal property in SAP Sourcing and the configuration tool in NetWeaver should be set to the same value.

### Settings Relevant for all End-User Computers

#### Microsoft Internet Explorer Time-out Limit

Internet Explorer imposes a time-out limit for the server to return data. By default, the time-out limit is as follows:

Table 74

Internet Explorer 5.x and Internet Explorer 6.x	60 minutes
Internet Explorer 7 and Internet Explorer 8	60 minutes

To increase this default value, consult the documentation in Microsoft's Knowledge Base.

## 6.2 Field Mapping Between SAP ERP and SAP Sourcing

### 6.2.1 Mapping of Customizing Data from SAP ERP to SAP Sourcing

The following table shows how the company code is mapped from SAP ERP to SAP Sourcing.

Table 75: Mapping of Company Code from SAP ERP to SAP Sourcing

SAP ERP Field Label	SAP ERP Field Name	SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	Extra Mapping Logic
Company Code	T001- BUKRS	External ID	masterdata.Comp anyCode	EXTERNAL_ID	
City	T001- ORT01	City	masterdata.Comp anyCode	CITY	
Country Key	T001- LAND1	Country	masterdata.Comp anyCode	COUNTRY	
Currency Key	T001- WAERS	Currency	masterdata.Comp anyCode	CURRENCY	
Name of Company Code or Company	T001- BUTXT	Display Name	masterdata.Comp anyCode	NAME	
		Replicated	masterdata.Comp anyCode	IS_REPLICATED	Constant value TRUE
Logical System	T000-LOGSYS	Business System	masterdata.Comp anyCode	BUSINESS_SYSTE M	

The following table shows how the purchasing organization is mapped from SAP ERP to SAP Sourcing.

Table 76: Mapping of Purchasing Organization from SAP ERP to SAP Sourcing

SAP ERP Field Label	SAP ERP Field Name	SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	Extra Mapping Logic
Purchasing Organization	T024E- EKORG	External ID	masterdata.POrg	EXTERNAL_ID	
Company Code	T024E- BUKRS	Company Code	masterdata.POrg	COMPANY_CODE	
Purchasing Organization Description	T024E- EKOTX	Display Name	masterdata.POrg	NAME	
		Replicated	masterdata.POrg	IS_REPLICATED	Constant value TRUE
Logical System	T000-LOGSYS	Business System	masterdata.POrg	BUSINESS_SYSTE M	

The following table shows how the purchasing group is mapped from SAP ERP to SAP Sourcing.

Table 77: Mapping of Purchasing Group from SAP ERP to SAP Sourcing

SAP ERP Field Label	SAP ERP Field Name	SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	Extra Mapping Logic
Purchasing Group	T024- EKGRP	External ID	masterdata.PGrou p	EXTERNAL_ID	
Tel.No.Pur.Grp	T024- EKTEL	Telephone	masterdata.PGrou p	TELEPHONE	
Fax Number	T024- TELFX	Fax	masterdata.PGrou p	FAX	
E-Mail Address	T024- SMTP_ADDR	E-Mail Address	masterdata.PGrou p	EMAIL_ADDRESS	
Desc.Pur.Grp	T024- EKNAM	Display Name	masterdata.PGrou p	NAME	
		Replicated	masterdata.PGrou p	IS_REPLICATED	Constant value TRUE
Logical System	T000-LOGSYS	Business System	masterdata.PGrou p	BUSINESS_SYSTE M	

The following table shows how the payment term is mapped from SAP ERP to SAP Sourcing.

Table 78: Mapping of Payment Term from SAP ERP to SAP Sourcing

SAP ERP Field Label	SAP ERP Field Name	SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	Extra Mapping Logic
Terms of Payment Key	T052- ZTERM	External ID	masterdata.Payme ntTerm	EXTERNAL_ID	
Language Key	T052U- SPRAS	(This field is not displayed on the user interface.)	masterdata.Payme ntTerm	NAME – language	
Own Explanation of Term of Payment	T052U- TEXT1	Display Name	masterdata.Payme ntTerm	NAME	
Own Explanation of Term of Payment	T052U- TEXT1	Description	masterdata.Payme ntTerm	DESCRIPTION	
		Replicated	masterdata.Payme ntTerm	IS_REPLICATED	Constant value TRUE
Cash Discount Percentage Rate	T052-ZPRZ1	% Discount	masterdata.Payme ntTermSub	DISCOUNT	
Days from Baseline Date for Payment	T052-ZTAG1	Days	masterdata.Payme ntTermSub	PAY_DAY	
Cash Discount Percentage Rate	T052-ZPRZ2	% Discount	masterdata.Payme ntTerm	DISCOUNT	

SAP ERP Field Label	SAP ERP Field Name	SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	Extra Mapping Logic
Days from Baseline Date for Payment	T052-ZTAG2	Days	masterdata.PaymentTerm	PAY_DAY	
Days from Baseline Date for Payment	T052-ZTAG3	Days	masterdata.PaymentTerm	PAY_DAY	
Logical System	T000-LOGSYS	Business System	masterdata.PGroup	BUSINESS_SYSTEM	

The following table shows how the material group is mapped from SAP ERP to SAP Sourcing.

Table 79: Mapping of Material Group from SAP ERP to SAP Sourcing

SAP ERP Field Label	SAP ERP Field Name	SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	Extra Mapping Logic
Material Group	T023- MATKL	Category ID	masterdata.InternalCat	CATEGORY_ID	
Language Key	T023-SPRAS	(This field is not displayed on the user interface.)	masterdata.InternalCat	NAME – language	
Material Group Description	T023T- WGBEZ	Display Name	masterdata.InternalCat	NAME	
Long Text Describing the Material Group	T023T- WGBEZ60	Display Name	masterdata.InternalCat	NAME	
		Replicated	masterdata.InternalCat	IS_REPLICATED	Constant value TRUE
Logical System	T000-LOGSYS	Business System	masterdata.InternalCat	BUSINESS_SYSTEM	

The following table shows how the plant is mapped from SAP ERP to SAP Sourcing.

Table 80: Mapping of Plant from SAP ERP to SAP Sourcing

SAP ERP Field Label	SAP ERP Field Name	SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	Extra Mapping Logic
Plant	T001W- WERKS	External ID	masterdata.Plant	EXTERNAL_ID	
House Number and Street	T001W- STRAS	Street	masterdata.Plant	STREET	
City	T001W- ORT01	City	masterdata.Plant	CITY	
Postal Code	T001W- PSTLZ	Postal Code	masterdata.Plant	POSTAL_CODE	
Region (State, Province, County)	T001W- REGIO	ERP Region	masterdata.Plant	ERP_REGION	

SAP ERP Field Label	SAP ERP Field Name	SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	Extra Mapping Logic
Country Key	T001W-LAND1	Country	masterdata.Plant	COUNTRY	
Name	T001W-NAME1	Display Name	masterdata.Plant	NAME	
Name 2	T001W-NAME2	Description	masterdata.Plant	DESCRIPTION	
Purchasing Organization	T024W-EKORG	Purchasing Organizations	masterdata.PlantP Org	PORG	
Company Code	T001K-BUKRS	Company Code	masterdata.Plant	EXTERNAL_COMP ANY	
		Replicated	masterdata.Plant	IS_REPLICATED	Constant value TRUE
Logical System	T000-LOGSYS	Business System	masterdata.Plant	BUSINESS_SYSTE M	

The following table lists SAP ERP to SAP Sourcing mapping information for Vendor Account Group.

Table 81: Mapping of Vendor Account Group from SAP ERP to SAP Sourcing

SAP ERP Field Label	SAP ERP Field Name	SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	Extra Mapping Logic
		Inactive	odp.masterdata.V endorAcctGroup	IS_INACTIVE	Always set to FALSE
		Replicated	odp.masterdata.V endorAcctGroup	IS_REPLICATED	Always set to TRUE
Logical System	T000-LOGSYS	Business System	odp.masterdata.V endorAcctGroup	BUSINESS_SYSTE M	
Vendor Account Group	T077K-KTOKK	ID	odp.masterdata.V endorAcctGroup	EXTERNAL_ID	
Vendor Account Group	T077K-KTOKK	Name	odp.masterdata.V endorAcctGroup	NAME	
Account Group Name	T077Y-TXT30	Description	odp.masterdata.V endorAcctGroup	DESCRIPTION	
Number Range Indicator	NRIV-EXTERNIND	Number Range	odp.masterdata.V endorAcctGroup	NUMBER_RANGE	Any value in this field (in ERP) sets the number range as "external".  If this field is empty, the number range is set to "internal".

The following table lists SAP ERP to SAP Sourcing mapping information for Incoterm.



Table 82: Mapping of Incoterm from SAP ERP to SAP Sourcing

SAP ERP Field Label	SAP ERP Field Name	SAP Sourcing Field Labell	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	Extra Mapping Logic
		Inactive	masterdata.incoterm	IS_INACTIVE	Always set to FALSE
		Replicated	masterdata.incoterm	IS_REPLICATED	Always set to TRUE
Description	TINCT-BEZEI	Name	masterdata.incoterm	NAME	
Description	TINCT-BEZEI	Description	masterdata.incoterm	DESCRIPTION	
Incoterms	TINC-INCO1	ID	masterdata.incoterm	EXTERNAL_ID	
Location madatory	TINC-ORTOB	Location Required	masterdata.incoterm	LOCATION	

The following table lists SAP ERP to SAP Sourcing mapping information for Regions.

Table 83: Mapping of Regions from SAP ERP to SAP Sourcing

SAP ERP Field Label	SAP ERP Field Name	SAP Sourcing Field Labell	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	Extra Mapping Logic
		Inactive	masterdata.ErpRegion	IS_INACTIVE	Always set to FALSE
			masterdata.ErpRegion	IS_REPLICATED	Always set to TRUE
Description	T005U-BEZEI	Name	masterdata.ErpRegion	NAME	
Description	T005U-BEZEI	Description	masterdata.ErpRegion	DESCRIPTION	
Region	T005S-BLAND	Region Code	masterdata.ErpRegion	EXTERNAL_ID	
Country	T005S-LAND1	Country	masterdata.ErpRegion	LOCATION	

The following table lists SAP ERP to SAP Sourcing mapping information for Unit of Measure ISO Code.

Table 84: Mapping of Unit of Measure ISO Code from SAP ERP to SAP Sourcing

SAP ERP Field Label	SAP ERP Field Name	SAP Sourcing Field Labell	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	Extra Mapping Logic
		Inactive	masterdata.IsoCodeUom	IS_INACTIVE	Always set to FALSE

			masterdata.IsoCodeUom	IS_REPLICATED	Always set to TRUE
ISO code for unit of measurement	T006-ISOCODE	ISO Code	masterdata.IsoCodeUom	ISO_CODE	
ISO code for unit of measurement	T006A-MSEH6	Name	masterdata.IsoCodeUom	DISPLAY_NAME	
Unit of Measurement Text (maximum of 30 characters)	T006A-MSEHL	Description	masterdata.IsoCodeUom	DOCUMENT_DESCRIPTION	

The following table lists SAP ERP to SAP Sourcing mapping information for Unit of Measure.

Table 85: Mapping of Unit of Measure from SAP ERP to SAP Sourcing

SAP ERP Field Label	SAP ERP Field Name	SAP Sourcing Field Label	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	Extra Mapping Logic
		Inactive	masterdata.UnitsOfMeasure	IS_INACTIVE	Always set to FALSE
			masterdata.UnitsOfMeasure	IS_REPLICATED	Always set to TRUE
Unit of Measurement	T006-MSEHI	Display Name	masterdata.UnitsOfMeasure	DISPLAY_NAME	
Unit of Measurement Text	T006A-MSEHT		masterdata.UnitsOfMeasure	LOCALIZED_DISPLAY_NAME	
Unit of Measurement Text (maximum of 30 characters)	T006A-MSEHL	Description	masterdata.UnitsOfMeasure	DOCUMENT_DESCRIPTION	
ISO code for unit of measurement	T006-ISOCODE	ISO Code	masterdata.UnitsOfMeasure	ISO_CODE	
		Default for ISO Code	masterdata.UnitsOfMeasure	DEFAULT_FOR_ISO	
Dimension key	T006T-DIMID	Category	masterdata.UnitsOfMeasure	CATEGORY	
		Conversion Factor	masterdata.UnitsOfMeasure	CONVERSION	
	"0"	Conversion Factor Scale	masterdata.UnitsOfMeasure	CONVERSION_SCALE	
	(blank)	Plug-in	masterdata.UnitsOfMeasure	UNIT_PLUGIN	

			masterdata.Units OfMeasure		
Number of decimal places to which rounding occurs.	T006-ANDEC	Synonyms	masterdata.Units OfMeasure	SYNONYMS	
		Precision	masterdata.Units OfMeasure	PRECISION	
		Scale	masterdata.Units OfMeasure	SCALE	
	(blank)	Primary unit	masterdata.Units OfMeasure	PRIMARY_UNIT	

The following table lists SAP ERP to SAP Sourcing mapping information for Currency.

Table 86: Mapping of Currency from SAP ERP to SAP Sourcing

SAP ERP Field Label	SAP ERP Field Name	SAP Sourcing Field Labell	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	Extra Mapping Logic
		Inactive	masterdata.Curre ncy	IS_INACTIVE	Always set to FALSE
			masterdata.Curre ncy	IS_REPLICATED	Always set to TRUE
ISO currency code	TCURC-ISOCD	Display Name	masterdata.Curre ncy	DISPLAY_NAME	
Long Text	TCURT-LTEXT	Description	masterdata.Curre ncy	DOCUMENT_DESC RIPTION	
	'FALSE'		masterdata.Curre ncy	IN_EURO	
Number of decimal places	TCURX-CURRDEC	Display Scale	masterdata.Curre ncy	DISPLAY_PRECISI ON	
Number of decimal places	TCURX-CURRDEC	Storage Scale	masterdata.Curre ncy	STORAGE_PRECIS ION	
ISO currency code	TCURC-ISOCD	Currency ISO Code	masterdata.Curre ncy	ISO_CODE	
Long Text	TCURT-LTEXT		masterdata.Curre ncy	LOCALIZED_DISPL AY_NAME	

The following table lists SAP ERP to SAP Sourcing mapping information for Currency ISO Code.

Table 87: Mapping of Currency ISO Code from SAP ERP to SAP Sourcing

SAP ERP Field Label	SAP ERP Field Name	SAP Sourcing Field Labell	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	Extra Mapping Logic
------------------------	-----------------------	------------------------------	----------------------------------	---	------------------------

		Inactive	masterdata.IsoCo deCurrency	IS_INACTIVE	Always set to FALSE
			masterdata.IsoCo deCurrency	IS_REPLICATED	Always set to TRUE
ISO currency code	TCURC-ISOCD	ISO Code	masterdata.IsoCo deCurrency	ISO_CODE	
Short Text	TCURT-LTEXT	Name	masterdata.IsoCo deCurrency	DISPLAY_NAME	
Long Text	TCURT-LTEXT	Description	masterdata.IsoCo deCurrency	DOCUMENT_DESC RIPTION	

The following table lists SAP ERP to SAP Sourcing mapping information for Unit of Measurement Category.

Table 88: Mapping of Unit of Measurement Category from SAP ERP to SAP Sourcing

SAP ERP Field Label	SAP ERP Field Name	SAP Sourcing Field Labell	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	Extra Mapping Logic
Dimension Key	DIMID	Display Name ID	masterdata.Value ListValue	DISPLAY_NAME_I D	The values "erp.dimension \$vlv.unit_category ", "DIMID", and "name" are concatenated.
Dimension Key	T006T-DIMID	Display Name	masterdata.Value ListValue	DISPLAY_NAME	
Text	unit_category		masterdata.Value ListValue	PARENT	
Dimension Text	T006T-TXDIM	Alternate Name	masterdata.Value ListValue	ALTERNATE_NAM E	
	space	Description	masterdata.Value ListValue	DESCRIPTION_ID	

The following table lists SAP ERP to SAP Sourcing mapping information for Unit of Measurement Category Texts.

Table 89: Mapping of Unit of Measurement Category Texts from SAP ERP to SAP Sourcing

SAP ERP Field Label	SAP ERP Field Name	SAP Sourcing Field Labell	SAP Sourcing Interface Object	SAP Sourcing Interface Object Field	Extra Mapping Logic
				BUNDLE	The value is always set to "erp.dimension".

Dimension Key	T006T-DIMID			RESOURCE_ID	The values "erp.dimension", "DIMID", and "name" are concatenated.
				RESOURCE_KIND	The value is always set to "APP_TEXT".
Dimension Text	TCURT-LTEXT			DEFAULT_VALUE	
				RESOURCE_CATEGORY	The value is always set to "XTXT".

## 6.2.2 Mapping of Material Master Data from SAP ERP to SAP Sourcing

The following table shows how material master data is mapped from SAP ERP to SAP Sourcing.

SAP ERP interface: IDoc MATMAS05

SAP Sourcing interface: MI\_IB\_Material

Table 90: Mapping of Material Master Data from SAP ERP to SAP Sourcing

SAP ERP Field Label	IDoc Segment	IDoc Segment Field	SAP Sourcing Field Label	SAP Sourcing Interface Object Class Name	SAP Sourcing Interface Object Field
Material Type	E1MARAM	MTART	Product Type	masterdata.Material	PRODUCT_TYPE
Material	E1MARAM	MATNR	External ID	masterdata.Material	EXTERNAL_ID
Material	E1MARAM	MATNR	External Name	masterdata.Material	EXTERNAL_NAME
Material	E1MARAM	MATNR	Display Name	masterdata.Material	NAME
Material Description (Short Text)	E1MAKTM	MAKTX	Description	masterdata.Material	Value field below DESCRIPTION node
Material Description Language	E1MAKTM	SPRAS_ISO	Language	masterdata.Material	Language attribute below DESCRIPTION node
Base Unit of Measure	E1MARAM	MEINS	Base Unit	masterdata.Material	BASE_UNIT

SAP ERP Field Label	IDoc Segment	IDoc Segment Field	SAP Sourcing Field Label	SAP Sourcing Interface Object Class Name	SAP Sourcing Interface Object Field
Order Unit	E1MARAM	BSTME	Order Unit	masterdata.Material	ORDER_UNIT
Material Group	E1MARAM	MATKL	Product Category	masterdata.Material	INTERNAL_CAT
Material Type	E1MARAM	MTART	Product Type	masterdata.Material	PRODUCT_TYPE
Mark Material for Deletion (See <a href="#">Extra Mapping Logic</a> below.)	E1MARAM	LVORM	Inactive	masterdata.Material	INACTIVE
Sender Partner Number	EDI_DC40	SNDPRN	Business System	masterdata.Material	BUSINESS_SYSTEM
Plant	E1MARCM	WERKS	Plant	Masterdata.ProductPlant	PLANT
Mark for Deletion at Plant Level (See <a href="#">Extra Mapping Logic</a> below.)	E1MARCM	LVORM	Delete	Masterdata.ProductPlant	Delete attribute

### Extra Mapping Logic

The following table contains extra mapping logic for certain fields.

Table 91: Extra Mapping Logic

SAP ERP Field Label	Extra Mapping Logic
Mark Material for Deletion	If the material is flagged for deletion in SAP ERP, the product will be inactivated in SAP Sourcing.
Mark for Deletion at Plant Level	If the material/plant relation is flagged for deletion in SAP ERP, the product/plant relation will be deleted in SAP Sourcing.

## 6.2.3 Mapping of Vendor Master Data from SAP ERP to SAP Sourcing

The following table shows how vendor master data is mapped from SAP ERP to SAP Sourcing.

SAP ERP interface: IDoc CREMAS05

SAP Sourcing interface: MI\_IB\_Supplier

Table 92: Mapping of Vendor Master Data from SAP ERP to SAP Sourcing

SAP ERP Field Label	IDoc Segment	IDoc Segment Field	SAP Sourcing Field Label	SAP Sourcing Interface Object Class Name	SAP Sourcing Interface Object Field
Vendor	E1LFA1M	LIFNR	External ID	Masterdata.vendor	EXTERNAL_ID
Name	E1LFA1M	NAME1	Display Name	Masterdata.vendor	DISPLAY_NAME
Name 2	E1LFA1M	NAME2	Abbreviated Name	Masterdata.vendor	NAME_2
Name 3	E1LFA1M	NAME3	Alternative Name	Masterdata.vendor	NAME_3
Search Term 1/2	E1LFA1M	SORTL	Keywords	Masterdata.vendor	KEYWORDS
Street/House Number, Supplement	E1LFA1M	STRAS	Address 1	Masterdata.vendor	ORDER_ADDRESS_1
District	E1LFA1M	ORT02	District	Masterdata.vendor	DISTRICT
Postal Code	E1LFA1M	PSTLZ	Postal/ZIP Code	Masterdata.vendor	ORDER_POSTAL_CODE
City	E1LFA1M	ORT01	City	Masterdata.vendor	ORDER_CITY
Country (See <a href="#">Extra Mapping Logic</a> below.)	E1LFA1M	LAND1	Country	Masterdata.vendor	ORDER_COUNTRY
Region (See <a href="#">Extra Mapping Logic</a> below.)	E1LFA1M	REGIO	ERP Region	Masterdata.vendor	ORDER_ERP_REGION
PO Box	E1LFA1M	PFACH	PO Box	Masterdata.vendor	ORDER_PO_BOX
Postal Code	E1LFA1M	PSTL2	PO Box Postal Code	Masterdata.vendor	ORDER_PBOX_POSTAL_CODE
Telephone (See <a href="#">Extra Mapping Logic</a> below.)	E1LFA1M	TELF1	Main Phone	Masterdata.vendor	ORDER_TELEPHONE_1
Fax (See <a href="#">Extra Mapping Logic</a> below.)	E1LFA1M	TELFX	Main Fax	Masterdata.vendor	ORDER_FAX_1
Sender Partner	EDI_DC40	SNDPRN	Business System	Masterdata.vendor	LOG_SYS
Header Text (Reference Number Sourcing)	E1LFA1L	TDLINE	External ID	Masterdata.vendor	ALT_EXTERNAL_ID
Block for All Purchasing Organizations	E1LFA1M	SPERM	Inactive	odp.masterdata.VendorLogSys	INACTIVE

SAP ERP Field Label	IDoc Segment	IDoc Segment Field	SAP Sourcing Field Label	SAP Sourcing Interface Object Class Name	SAP Sourcing Interface Object Field
Mark for Deletion for All Areas	E1LFA1M	LOEVM	Inactive	odp.masterdata.VendorLogSys	INACTIVE
Sender Partner	EDI_DC40	SNDPRN	Business System	odp.masterdata.VendorLogSys	LOG_SYS
Account Group	E1LFA1M	KTOKK	Vendor Account Group	odp.masterdata.VendorLogSys	VEN_ACCT_GROUP
Vendor	E1LFA1M	LIFNR	External Supplier ID	odp.masterdata.VendorLogSys	EXTERNAL_SUPPLIER_ID
Purchasing Organization	E1LFM1M	EKORG	Purchasing Organization	odp.masterdata.VendorLogSysPOrg	PORG
Block for Selected Purchasing Organization (See <a href="#">Extra Mapping Logic</a> below.)	E1LFM1M	SPERM	Delete	odp.masterdata.VendorLogSysPOrg	Delete attribute
Mark for Deletion for Selected Purchasing Organization (See <a href="#">Extra Mapping Logic</a> below.)	E1LFM1M	LOEVM	Delete	odp.masterdata.VendorLogSysPOrg	Delete attribute

## Extra Mapping Logic

The following table contains extra mapping logic for certain fields.

Table 93: Extra Mapping Logic

SAP ERP Field Label	Extra Mapping Logic
Country	The ISO country code is transferred.
Region	In SAP Sourcing, the key is the country code and region. Therefore, in SAP NetWeaver Process Integration (SAP NetWeaver PI), the country and region are concatenated with an underscore before mapping (for example, US_CA ).
Telephone	The SAP ERP fields <a href="#">Telephone</a> and <a href="#">Extension</a> are concatenated to a single IDoc field and mapped to <a href="#">Main Phone</a> of SAP Sourcing supplier.
Fax	The SAP ERP fields <a href="#">Fax</a> and <a href="#">Extension</a> are concatenated to a single IDoc field and mapped to <a href="#">Main Fax</a> of SAP Sourcing supplier.



SAP ERP Field Label	Extra Mapping Logic
Block for Selected Purchasing Organization	If the vendor/purchasing organization relation is blocked in SAP ERP, the supplier/purchasing organization relation will be deleted in SAP Sourcing.
Mark for Deletion for Selected Purchasing Organization	If the vendor/purchasing organization relation is marked for deletion in SAP ERP, the supplier/purchasing organization relation will be deleted in SAP Sourcing.

### **i** Note

The following additional logic exists in SAP Sourcing for the field EXTERNAL\_ID when integration with SAP ERP is enabled:

- If a value is provided for ALT\_EXTERNAL\_ID, then that value is used for the Supplier's External ID field.
- If multi-backend integration is enabled for the supplier and no value is provided for ALT\_EXTERNAL\_ID, then the External ID of the supplier is constructed by concatenating the value in the EXTERNAL\_ID field with the value in LOG\_SYS field. Eg. 1000@ERPCLNT001.
- In all other cases, the EXTERNAL\_ID field remains as provided in the XML file or CSV file.

## 6.2.4 Mapping of SAP ERP Item Categories to SAP Sourcing Item Types

The following table lists the mapping between SAP ERP Item Categories and SAP Sourcing Item Types.

Table 94

Item Type	ERP Item Category	Use with Material Master Line Item	Use with Free Text Line Item	ERP Item Category ID Internal/External
Material	Standard	Yes	Yes	0/(blank)
Service	Service	No	Yes	9/D
Consignment	Consignment	Yes	No	2/K
Subcontracting	Subcontracting	Yes	Yes	3/L
Material Unknown	Material Unknown	No	Yes	4/M
Material Group (Not in RFx)	Material Group	No	Yes	8/W
Customer Type 1	N/A	Yes	Yes	N/A
Customer Type 2	N/A	Yes	Yes	N/A
Customer Type 3	N/A	Yes	Yes	N/A

## 6.3 Field Mapping Between SAP SRM and SAP Sourcing

The following information describes how SAP Sourcing fields map to SAP SRM fields for Master Agreement Purchasing Contracts.

The table below lists the mapping for MessageHeader.

Table 95: Mapping of the Fields in the Node: MessageHeader

SAP Sourcing Field (UI)	PI Message Interface Field	SRM Service Interface Field	Additional Information
Document Name	UNIQUE_DOC_NAME	ID	

The table below lists the mapping for PurchasingContract..

Note that most of the sourcing fields come from the elements under Node: (MT\_Agreement > fcdatexport > objects > object > fields).

Table 96: Mapping of the Fields in the Node: PurchasingContract

SAP Sourcing Field (UI)	PI Message Interface Field	SRM Service Interface Field	Additional Information
Document Name	UNIQUE_DOC_NAME	ID	
	ACTION_CODE	actionCode	01 for Create 02 for Update 03 for cancel/Close/Delete Transient Field in the XML
	COMPLETE_TRANSMISSION	itemListCompleteTransmissionIndicator	When itemListCompleteTransmissionIndicator is false, SAP Sourcing sends only the differences to SAP SRM. Transient Field in the XML
Document Name	UNIQUE_DOC_NAME	ID	
Parent Document Name	PARENT_UNIQUE_DOC_NAME	ParentID	Applies to both Sub-agreement and Contract Hierarchy scenarios.
Effective Date	EFFECTIVE_DATE	ValidityPeriod-StartDate	You must convert this into Conversion date format.
Expiration Date	EXPIRATION_DATE	ValidityPeriod-EndDate	Conversion in date format required. If PERPETUAL_TERM is set to TRUE, set the value to 9999-12-31.
Renewal Reminder Date	RENEWAL_REMINDER	ExpiryDayNumberValue	You must calculate the number of days between Expiration Day and Renewal Reminder.
Transaction Type	TRANSACTION_TYPE/ EXTERNAL_ID	ProcessingTypeCode	

SAP Sourcing Field (UI)	PI Message Interface Field	SRM Service Interface Field	Additional Information
Currency	CURRENCY	CurrencyCode	
Agreement Maximum	LIMIT_VALUE	TargetAmount	
Limit Alert Percent	ACTUAL_LIMIT_PCT	AlertReleaseNumberValue	This interface field is not mapped.
Description	DISPLAY_NAME	Description	
	USER_LANGUAGE	Description-languageCode	Language settings are displayed in <a href="#">My Settings</a> .
		RestrictedUseIndicator	Set to <a href="#">False</a> .
		BasicContractIndicator	Set to <a href="#">False</a> .
		CatalogDistributionIndicator	Set to <a href="#">False</a> .
		ContractReleaseIndicator	Set to <a href="#">False</a> .
		SourcingBlockedIndicator	This is derived from the <a href="#">Integration Details</a> in the <a href="#">Master Agreement Type</a> .
Allow SAP SRM to maintain Line Items	ALLOW_SRM_LI	LineItemMaintenanceAllowedIndicator	This is derived from the <a href="#">Integration Details</a> in the <a href="#">Master Agreement Type</a> .
Supplier	VENDOR	VendorParty > InternalID	
		VendorParty > InternalID > schemeAgencyID	The logical system of the vendor.
Purchasing Org	PURCHASING_ORG/ EXTERNAL_ID	ResponsiblePurchasingOrganisationParty > InternalID	
	PURCHASING_ORG/ BUSINESS_SYSTEM	ResponsiblePurchasingOrganisationParty > InternalID > schemeAgencyID	The logical system of the PORG.
Purchasing Group	PURCHASING_GRP/ EXTERNAL_ID	ResponsiblePurchasingGroupParty > InternalID	
	PURCHASING_GRP/ BUSINESS_SYSTEM	ResponsiblePurchasingGroupParty > InternalID > schemeAgencyID	The logical system of the PGROUP.
		ResponsibleEmployeeParty > UserAccountID	
		ResponsibleEmployeeParty > InternalID	Technical SRM user.
Incoterm	DELIVERY_TERM_FIRST	DeliveryTerms > Incoterms > ClassificationCode	

SAP Sourcing Field (UI)	PI Message Interface Field	SRM Service Interface Field	Additional Information
Incoterm Locaton	DELIVERY_TERM_LOCATION	DeliveryTerms > Incoterms > TransferLocationName	
Payment Terms	PAYTERMS/EXTERNAL_ID	CashDiscountTerms > Code	
	PAYTERMS/ BUSINESS_SYSTEM	CashDiscountTerms > listAgencySchemeAgencyID	You must specify the Logical System for this field.
		TextCollection > Text	Create this node only when DOCUMENT_DESCRIPTION is available.
Default Header Text	HDR_TEXT_ID	TextCollection > Text > TypeCode	This is derived from the <a href="#">Integration Details in the Master Agreement Type</a> .
Description	DOCUMENT_DESCRIPTION	TextCollection > Text > ContentText	
	USER_LANGUAGE	TextCollection >Text > ContentText > languageCode	

The table below lists the mapping for PurchasingContract > Item.

Note that most of the sourcing fields are derived from the elements under Node: (MT\_Agreement > fcidataexport > objects > object > collections).

Table 97: Mapping of the Fields in the Node: PurchasingContract > Item

SAP Sourcing Field (UI)	PI Message Interface Field	SRM Service Interface Field	Additional Information
	ACTION_CODE	actionCode	01 for Create 02 for Update 03 for Cancel/Close/Delete Transient Field in the XML.
Line Item Group Description	DISPLAY_GROUP_NAME		
Line Item Number	LINE_ITEM_NUMBER	ID	
		ActiveIndicator	This is always set to True.
Contracted Quantity	QUANTITY	TargetQuantity	
Unit of Measure on Contracted Quantity	This field is a combination of Quantity and Unit of Measurement. XI needs to separate the same. The ISO Unit of Measurement is used. XI can convert Unit of Measurement into capital to develop logic to separate Quantity and Unit of Measurement.	TargetQuantity > unitCode	
Min Order Quantity	Min Order Quantity	MinimumOrderQuantity	

SAP Sourcing Field (UI)	PI Message Interface Field	SRM Service Interface Field	Additional Information
Unit of Measure on Min Order Quantity	This field is a combination of Quantity and Unit of Measurement. XI needs to separate the same. The ISO Unit of Measurement is used. XI can convert Unit of Measurement into capital to develop logic to separate Quantity and Unit of Measurement.	MinimumOrderQuantity > unitCode	
	LINE_ITEM_TYPE_ENUM	TypeCode	18 for material items. 19 for service items (and 'free-text' items).
Product ID	MATERIAL/EXTERNAL_ID	Product > InternalID	Based on the value of INCLUDE_PART_NUMBER.
	MATERIAL/ BUSINESS_SYSTEM	Product > InternalID > schemeAgencyID	Logical system for product.
	LINE_ITEM_TYPE_ENUM	Product/TypeCode	01 for material items. 02 for service items (and 'free-text' items).
Supplier Part Number	VENDOR_PART_NUM	Product > InternalID > VendorID	
	LINE_ITEM_TYPE_ENUM	Product > InternalID > TypeCode	01 for material items. 02 for service items (and 'free-text' items).
Product Category	INTERNAL_CAT/ EXTERNAL_ID	ProductCategory > InternalID	
	INTERNAL_CAT/ BUSINESS_SYSTEM	Product > InternalID > schemeAgencyID	Logical system for Internal Category
Plant	PLANT/EXTERNAL_ID	ShipToLocation	Create this node only when PLANT is available.
	Constant	ShipToLocation > actionCode	Set to 01. You cannot change this value.
	PLANT/EXTERNAL_ID	ShipToLocation > LocationID	
	INTERNAL_CAT/ BUSINESS_SYSTEM	ShipToLocation > LocationID > schemeAgencyID	Logical system for Plant
Inco Terms	DELIVERY_TERMS	DeliveryTerms > Incoterms > ClassificationCode	
Inco Term Location	AWARDED_INCOTERM_LOCATION	DeliveryTerms > Incoterms > TransferLocationName	

SAP Sourcing Field (UI)	PI Message Interface Field	SRM Service Interface Field	Additional Information
		TextCollection > Text	Create this node only when LONG_DESC is available
Default Line Item Text	ITEM_TEXT_ID	TextCollection > Text > TypeCode	This is derived from the header node: MT_Agreement/ fcidataexport/objects/ object/fields/ ITEM_TEXT_ID
	USER_LANGUAGE	TextCollection > Text > ContentText > languageCode	This is derived from the header node: MT_Agreement/ fcidataexport/objects/ object/fields/ USER_LANGUAGE
Long Description	LONG_DESC	TextCollection > Text > ContentText	
Description	DOCUMENT_DESCRIPTION	Description	
	USER_LANGUAGE	Description-languageCode	

The table below lists the mapping for PurchasingContract > PriceSpecificationElement.

Note that most of the sourcing fields come from the elements under node (MT\_Agreement > fcidataexport > objects > object > collections > CONDITION\_SCALES). In the SAP SRM user interface, these fields are in the Pricing Conditions section of the Master or Sub-master Agreements.

Table 98: Mapping of the Fields in the Node: PurchasingContract > PriceSpecificationElement

SAP Sourcing Field (UI)	PI Message Interface Field	SRM Service Interface Field	Additional Information
		actionCode	Constant '01'.
Condition ID	PC_ID	TypeCode	
		CategoryCode	Constant '1'.
		ValidityPeriod > IntervalBoundaryTypeCode	Constant '03'.
Effective Date	VALID_FROM	ValidityPeriod > StartTimePoint > Date	
Expiration Date	VALID_TO	ValidityPeriod > EndTimePoint > Date	
Amount	AMOUNT	Rate > DecimalValue	Create this node only when AMOUNT is available.
		Rate > CurrencyCode	
	UNIT	Rate > BaseDecimalValue	Transient Field in the XML.
Amount	PERCENT	Percent	Create this node only when PERCENT is available.

SAP Sourcing Field (UI)	PI Message Interface Field	SRM Service Interface Field	Additional Information
Scales		ScaleLine	Create this node only when there is an object under the SCALES collection (which is under CONDITION_SCALES)
		ScaleLine/ScaleAxisStep/ScaleAxisBaseCode	Constant '3'.
		ScaleLine/ScaleAxisStep/IntervalBoundaryTypeCode	Constant '01'.
Condition Scales > From	VOLUME_THRESHOLD	ScaleLine/ScaleAxisStep/Quantity	This VOLUME_THRESHOLD is derived from the CONDITION_SCALES/object/collections/SCALES collection.
	VOLUME_THRESHOLD	ScaleLine/ScaleAxisStep/Quantity/@currencyCode	Only @currencyCode applies (disregard the rest of the field).
Condition Scales > Amount	AMOUNT	ScaleLine/Rate/DecimalValue	This AMOUNT is derived from the SCALES collection.
		ScaleLine/Rate/CurrencyCode	This AMOUNT is derived from the SCALES collection.
Condition Scales > Amount	PERCENT	ScaleLine/Percent	This PERCENT is derived from the SCALES collection.

The table below lists the mapping for PurchasingContract > Item > PriceSpecificationElement.

Note that most of the sourcing fields come from the elements under node (MT\_Agreement > fcidataexport > objects > object > collections > MA\_LINEITEMS > object > collections > AWARDED\_CONDITION\_SCALES). In the SAP SRM user interface, these fields are in the Line Items tab in the Master or Sub-master Agreements.

Table 99: Mapping of the Fields in the Node: PurchasingContract > Item > PriceSpecificationElement

SAP Sourcing Field (UI)	PI Message Interface Field	SRM Service Interface Field	Additional Information
		actionCode	Constant '01'.
Condition ID	PC_ID	TypeCode	
		ValidityPeriod > IntervalBoundaryTypeCode	Constant '03'.
Unit Price Date Begin	VALID_FROM	ValidityPeriod > StartTimePoint > Date	
Unit Price Date End	VALID_TO	ValidityPeriod > EndTimePoint > Date	
Amount	AMOUNT	Rate > DecimalValue	Create this node only when AMOUNT is available.
	UOM	Rate > MeasureUnitCode	

SAP Sourcing Field (UI)	PI Message Interface Field	SRM Service Interface Field	Additional Information
Amount	AMOUNT	Rate > CurrencyCode	
Price Unit	Price Unit	Rate > BaseDecimalValue	This PRICE_UNIT jis derived from the MA_LINEITEMS > object > fields collection.
Amount	PERCENT	Percent	Create this node only when PERCENT is available.
Scales		ScaleLine	Create this node only when there is an object under the SCALES collection (which is under AWARDED_CONDITION_SCALES).
		ScaleLine/ScaleAxisStep/ScaleAxisBaseCode	Constant '01'.
		ScaleLine/ScaleAxisStep/IntervalBoundaryTypeCode	Constant '01'.
Condition Scales > From	UNIT_THRESHOLD	ScaleLine/ScaleAxisStep/Quantity	This UNIT_THRESHOLD is derived from the MA_LINEITEMS/object/collections/AWARDED_CONDITION_SCALES/object/collections/SCALES collection.
	UNIT_THRESHOLD	ScaleLine/ScaleAxisStep/Quantity/@unitCode	Only @unityCode applies (disregard the rest of the field).
Condition Scales > Amount	AMOUNT	ScaleLine/Rate/DecimalValue	This AMOUNT is derived from the Collection SCALES collection.
	UNIT_THRESHOLD	ScaleLine/Rate/MeasureUnitCode	This UNIT_THRESHOLD is derived from the Collection SCALES collection.
	AMOUNT	ScaleLine/Rate/CurrencyCode	This AMOUNT is derived from the Collection SCALES collection.
Condition Scales > Amount	PERCENT	ScaleLine/Percent	This PERCENT is derived from the Collection SCALES collection.



## 6.4 Transport Protocol Shared File System

The default transport protocol of the file communication channel templates is FTP. If you would like to use shared file system, configure the communication channels as shown in the following tables. Shared file system is available only for on-premise deployment. SAP Sourcing and the shared directory must be trusted systems and must be able to access each other.

### Transport Protocol Shared File System Parameters and Values

Table 100: Parameters and Values for Communication Channel CT\_Supplier\_Receiving\_File\_Channel\_For\_ES

Parameter	Value
Adapter Type	File (Receiver)
Transport Protocol	Select File System (NFS)
Target Directory	Enter the path of the shared directory.
Create Target Directory	Select
File Name Scheme	Vendor_.xml
File Construction Mode	Add Time Stamp
File Type	Binary

Table 101: Parameters and Values for Communication Channel CT\_Material\_Receiving\_File\_Channel\_For\_ES

Parameter	Value
Adapter Type	File (Receiver)
Transport Protocol	Select File System (NFS)
Target Directory	Enter the path of the shared directory.
Create Target Directory	Select
File Name Scheme	Material_.xml
File Construction Mode	Add Time Stamp
File Type	Binary

## 6.5 Troubleshooting Integration Issues

The table below lists solutions to common issues you might encounter during the SAP SRM/SAP Sourcing integration process.

Table 102

Issue	Solution
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<p>In data import, files are successfully created by SAP ERP and/or SAP NetWeaver Process Integration (SAP NetWeaver PI) and sent to SAP Sourcing, but they are not picked up by SAP Sourcing.</p>	<p>This implies an issue with the data import monitor process. Check that the scheduled task is configured correctly, including the <a href="#">Run As</a> user, schedule settings, file system or FTP settings, and so on. For more information, see:</p> <ul style="list-style-type: none"> <li>• <a href="#">Extract Customizing Data from SAP ERP [page 28]</a></li> <li>• <a href="#">Carry Out Initial Load of Materials and Vendors from SAP ERP to SAP Sourcing [page 44]</a></li> <li>• <a href="#">Transfer Changes to Vendor from SAP ERP to SAP Sourcing [page 63]</a></li> <li>• <a href="#">Transfer Changes to Materials Using iDoc [page 45]</a></li> </ul> <p>Also check the SAP Sourcing application server logs.</p>
<p>In data import, the files are successfully picked up by SAP Sourcing, but the import fails due to:</p> <ul style="list-style-type: none"> <li>• Empty file (also known as zero-byte file) Empty files are identified by the importer, moved out of the queue, and notification is sent.</li> <li>• Corrupt file Corrupt files are usually due to malformed XML inside the file. This is not generally expected because the files are machine-made.</li> <li>• Data validation failure Data validation failures are anticipated conditions, and messages are provided.</li> </ul>	<p>Check the data import record for the file imported. You do this as follows:</p> <ol style="list-style-type: none"> <li>1. Log on to SAP Sourcing.</li> <li>2. Choose <a href="#">Setup</a>.</li> <li>3. On the <a href="#">System Administration</a> tab, find the <a href="#">Import and Export Tools</a> section and click <a href="#">Import Data</a>.</li> </ol> <p>All data imports are displayed with basic information such as the result of the import, number of records imported successfully, and number of failed records. You can also filter the data imports by date.</p> <p>For detailed information about the import session, click the data import name to access the <code>trace.txt</code> file. Any pertinent errors and/or warnings are logged here. This trace file and the SAP Sourcing application server logs provide most data for troubleshooting import problems. You will need the trace file and SAP Sourcing application server logs if you contact SAP Sourcing support.</p>
<p>In data import, you get an error message that a default language value was not provided.</p>	<p>See <a href="#">Define Default Language Preferences for Localized Resource Strings [page 12]</a>.</p>
<p>In data import, you get a warning message about invalid or missing values in SAP Sourcing, but the data import continues successfully.</p>	<p>See <a href="#">Extract Customizing Data from SAP ERP [page 28]</a>.</p>
<p>You want to import a Master Agreement or Materials, but you get an error message that the unit category <a href="#">No Dimension</a> contains no units of measure.</p>	<ol style="list-style-type: none"> <li>1. Log on to SAP Sourcing as a user with rights to edit Unit of Measure.</li> <li>2. Choose <a href="#">Setup</a>.</li> <li>3. On the <a href="#">Master Data</a> tab, find the <a href="#">Master Data</a> section and click <a href="#">Unit of Measure</a>.</li> <li>4. Check that the unit category <a href="#">No Dimension</a> exists, and that one of the units of measure in this unit category is designated as the primary unit. This unit category usually contains units of measure such as <a href="#">EA</a> and <a href="#">BOX</a>.</li> </ol>

<p>You want to enable the logging of synchronous messages in SAP NetWeaver PI from synchronous calls between SAP Sourcing and SAP ERP via SAP NetWeaver PI.</p>	<ol style="list-style-type: none"> <li>1. In the Integration Engine in SAP NetWeaver PI (transaction <code>s_xmb_admin</code>), choose <a href="#">Integration Engine Configuration</a>.</li> <li>2. Choose <a href="#">Change Configuration</a>.</li> <li>3. Add the parameter <code>LOGGING_SYNC</code> with the category <code>RUNTIME</code> and the current value 1.</li> </ol>
<p>You want to publish an agreement from SAP Sourcing to SAP SRM, but the HTTP publish process fails. Possible error(s) include:</p> <ul style="list-style-type: none"> <li>• Server returned HTTP response code: 500</li> <li>• No protocol</li> <li>• Timeout error in SAP SRM</li> </ul>	<p>Enable the logging of synchronous messages in SAP NetWeaver PI. (For performance reasons, synchronous messages are not logged by default in SAP NetWeaver PI.)</p> <p>Check the monitoring tools in SAP NetWeaver PI, SAP SRM, and the application server logs in SAP Sourcing. This is because master agreements and awards are published from SAP Sourcing to SAP ERP via synchronous HTTP requests through SAP NetWeaver PI. When the publish process fails, the errors that are displayed on the SAP Sourcing UI can come from SAP SRM, SAP NetWeaver PI, or SAP Sourcing, depending on where the failure originated. Where possible, the source of the problem is clearly identified, but such context is not always readily available. SAP Sourcing writes whatever context it has to the application server logs.</p> <p>Also check the integrated system configuration object, which contains the settings used by the export process, including the SAP NetWeaver PI URL. For information about how to access the integrated system configuration object, see above.</p> <p>Analyze the payload XML that SAP Sourcing writes to the application server file system. The error message specifies the location and name of this file.</p> <p>Check that the HTTP J2EE ports to connect from the hosting SAP NetWeaver PI system are open.</p> <p>For information about SAP SRM timeout error, see SAP Note <a href="#">824554</a>.</p>
<p>You want to publish master agreements from SAP Sourcing to SAP SRM, but the HTTP publish process fails. Possible error(s) include:</p> <ul style="list-style-type: none"> <li>• Error in PI: No receiver could be determined.</li> </ul>	<p>Make sure that the business service name, interface name, and namespace text are entered in SAP Sourcing in the same case as configured in SAP NetWeaver PI. For more information, see <a href="#">Edit Integrated System Configuration for SAP SRM Integration [page 10]</a>.</p>
<p>You want to publish master agreements from SAP Sourcing to SAP SRM, but the HTTP publish process fails. Possible error(s) include:</p> <ul style="list-style-type: none"> <li>• No receiver could be determined.</li> <li>• Server returned HTTP response code: 503</li> <li>• Server returned HTTP response code: 404</li> </ul>	<p>Check in the Integrated System Configuration object in SAP Sourcing that the business service name, interface name, and namespace text are entered exactly as they appear in SAP NetWeaver PI.</p> <p>Check the proxy settings for the SAP Sourcing system.</p> <p>In the Integrated System Configuration object in SAP Sourcing, verify that the PI Password is set correctly for the SAP user you use to log into the SAP PI system.</p>

A material you replicated from SAP ECC to SAP CLM fails to load because the system cannot find the base unit in the XML file.

Set the **Default for ISO Code** option in SAP Sourcing. Navigate to ► **Sourcing** ► **Setup** ► **Master Data** ► **Units of Measure** and edit the UOM contained in the material XML option. Set the **Default for ISO Code** option to **true**, then reimport the material XML file.

## 6.6 Extensions to Integration of SAP SRM and SAP Sourcing

You can extend the integration of SAP SRM and SAP Sourcing by enhancing or modifying the following components:

- **SAP ERP**

For material and vendor scenarios, you need to enhance IDocs if the existing IDoc interfaces do not meet your requirements. For more information, see SAP Library for SAP NetWeaver on SAP Help Portal at [help.sap.com](http://help.sap.com) ► **SAP NetWeaver** ► **Functional View** ► **SAP NetWeaver by Key Capability** ► **Application Platform by Key Capability** ► **Platform-Wide Services** ► **Connectivity** ► **Components of SAP Communication Technology** ► **Classical SAP Technologies (ABAP)** ► **IDoc Interface/ALE** ► **Development** ► **Structure, Documentation, and Definition of IDoc Types** ► **Defining New IDoc Types** ► **Extending an IDoc Type** .

- **SAP Sourcing**

You can use the SAP Sourcing extension framework to enhance objects in SAP Sourcing.

If you want to make a field mandatory in SAP Sourcing because the corresponding field has been made mandatory in SAP ERP, you can specify it in field's attribute in the definition.

If you want to carry out additional validations in SAP Sourcing, you can use custom scripting.

For more information, see SAP Library for SAP Sourcing on SAP Help Portal at [help.sap.com](http://help.sap.com).

- **SAP SRM**

You can extend integration objects in the SAP SRM system by following steps in Chapter 4 of the *Enterprise Services Enhancement Guide*, which is available at [www.sdn.sap.com/irj/sdn/soa?rid=/library/uuid/c0bb5687-00b2-2a10-ed8f-c9af69942e5d](http://www.sdn.sap.com/irj/sdn/soa?rid=/library/uuid/c0bb5687-00b2-2a10-ed8f-c9af69942e5d). For information on user-defined fields and metadata management in SAP SRM, see SAP Notes [458591](#), [672960](#) and [1103956](#).

- **SAP NetWeaver Process Integration (SAP NetWeaver PI)**

You can use the Integration Repository to enhance SAP Sourcing interface definitions, SAP SRM interfaces, and their related mapping in your software component version. When creating your software component version, you can build a dependency to the SAP software component version. For more information, see SAP Library for SAP NetWeaver on SAP Help Portal at [help.sap.com](http://help.sap.com) ► **SAP NetWeaver** ► **SAP NetWeaver PI** ► **SAP NetWeaver Process Integration Library** ► **Developer's Guide** ► **Providing, Discovering, and Consuming Services** ► **Managing Services in the Enterprise Services Repository** ► **Organizing and Managing Content in ESR** ► **Software Component Versions** ► **Underlying Software Component Versions** .

The following information describes how to implement the extensions.

1. In SAP Sourcing, create new extension fields or collection definitions for the enhancement using the SAP Sourcing extension framework. (optional) You can create a custom script to validate the extension fields and collections.

## **i** Note

To add an agreement line item specification as an extension, see the “Specifying a Line Item View for a Master Agreement” section in the SAP Sourcing Help documentation (► [Contract Management](#) ► [Master Agreements](#) ► [Master Agreement Line Items](#) ►).

2. Determine the extension fields or collections you want to include in (or exclude from) the Integrated Document Configuration for SAP SRM integration.
3. Follow the steps in the [Enterprise Services Enhancement Guide](#) to perform extension development in SAP NetWeaver PI, and the SAP SRM back-end system. The [Enterprise Services Enhancement Guide](#) is located at [www.sdn.sap.com/irj/sdn/soa?rid=/library/uuid/c0bb5687-00b2-2a10-ed8f-c9af69942e5d](http://www.sdn.sap.com/irj/sdn/soa?rid=/library/uuid/c0bb5687-00b2-2a10-ed8f-c9af69942e5d).

The table below lists objects that you can extend in this scenario.

Table 103: Integration of SAP Sourcing Master Agreement and SAP SRM Central Contract — Extendable Objects

Name of Objects	Description
MI_ES_Agreement	Enterprise service structure defined in SAP PI. Used by SAP Sourcing to send a request to and receive a response from SAP SRM to create, update, or cancel a central contract.
PurchasingContractSRMCreateRequestConfirmation_In PurchasingContractSRMUpdateRequestConfirmation_In PurchasingContractSRMCancelRequestConfirmation_In	Enterprise service structure defined in SAP PI. Used by SAP SRM to receive a request from and return a response to SAP Sourcing to create, update, or cancel a central contract.
IM_ES_AGREEMENT_TO_SRM_CONTRACT_01 IM_ES_AGREEMENT_TO_SRM_CONTRACT_02 IM_ES_AGREEMENT_TO_SRM_CONTRACT_03	Enterprise service mapping objects defined in SAP PI. Used in the mapping of corresponding elements between the request and response service structure to create, update and cancel SAP SRM central contract
Enhancement Spot /SAPSRM/ES_SOA_MAPPING BAdI object /SAPSRM/BD_SOA_CTR_REQ_MAPPING Method /SAPSRM/ IF_BADI_SOA_EXTCTR_MAP~MAP_XI_TO_BACKEND Method /SAPSRM/ IF_BADI_SOA_EXTCTR_MAP~MAP_BACKEND_TO_XI	Enhancement Spot, Business Add-in, and methods in SAP SRM system. Use MAP_XI_TO_BACKEND and MAP_BACKEND_TO_XI to map the extended elements defined in the Enterprise Service Repository with the corresponding element of the standard or customer-defined business logic.

## 6.7 Configuring AEX Communication Channels and Integrated Configuration Scenario

This section describes how to configure communication channels and integrated configuration scenarios for using SAP NetWeaver PI AEX 7.3

## 6.7.1 Configure Communication Channel and Integrated Configuration for Send Material Master from SAP ERP to SAP Sourcing

### Prerequisites



Complete the following tasks before performing the steps in this section:

- [Configure Integrated Scenarios for SAP NetWeaver PI 7.3 AEX \[page 24\]](#)

### Procedure

#### Note

An SAP NetWeaver Process Integration (PI) expert must perform this procedure.

1. In the process integration tools (transaction `SXMB_IFR`), log on to the [Integration Directory](#) (SAP NetWeaver PI 7.3 AEX or higher).
2. Select the communication channel that is associated with the SAP ERP business system and click [New](#). Enter the Communication Channel name, then go to [Communication Channel > Apply Template](#) :  
“CT\_Generic\_Sending\_HTTP\_AAE\_Channel\_For\_ERP\_Outbound\_IDOCs” .
3. Click [Save](#).
4. Select the communication channel that is associated with the SAP Sourcing business system and click [New](#). Enter the Communication Channel name, then go to [Communication Channel > Apply Template](#) :  
“CT\_Material\_Receiving\_File\_Channel\_For\_ES” .
5. Configure the channel using the values in Step 2 of [Configure Communication Channel for Send Material Master \[page 41\]](#).
6. Click [Save](#).
7. Select [Integrated Configuration](#) and Click [New](#). Enter the following items, then add them to the Configuration Scenario:
  - Sender Communication Component: SAP ERP
  - Sender Interface: MATMAS.MATMAS05
  - Sender Namespace: urn:sap-com:document:sap:idoc:messages

Then, configure the tabs as shown below:

Table 104

Tab	Field	Value
Inbound Processing	CT_Generic_Sending_HTTP_AAE_Channel_For_ERP_Outbound_IDOCs	Select the Sender Communication Channel Template
Receiver tab	Select SAP Sourcing Business System	Select the Receiver Communication Component
Receiver Interfaces	IM_ERP_Material_To_ES_Material	Select the Operation Mapping/ Receiver Interface
Outbound Processing	CT_Material_Receiving_File_Channel_For_ES	Select the Receiver Communication Channel Template

## 6.7.2 Configure Communication Channel and Integrated Configuration for Send Vendor Master from SAP ERP to SAP Sourcing

### Procedure

#### Note

Skip Step 1 and Step 2 if you performed the steps in [Configure Communication Channel and Integrated Configuration for \[page 114\]](#).

1. Select the communication channel that is associated with the SAP ERP business system and click **New**. Enter the Communication Channel name, then go to ► **Communication Channel** ► **Apply Template** : "CT\_Generic\_Sending\_HTTP\_AAE\_Channel\_For\_ERP\_Outbound\_IDOCs" .
2. Click **Save**.
3. Select the communication channel that is associated with the SAP Sourcing business system and click **New**. Enter the Communication Channel name, then go to ► **Communication Channel** ► **Apply Template** : "CT\_Supplier\_Receiving\_File\_Channel\_For\_ES" .
4. Configure the channel using the values in Step 2 of [Configure Communication Channels for Send Vendor Master from SAP \[page 59\]](#).
5. Click **Save**.
6. Select **Integrated Configuration** and click **New**. Enter the following items, then add them to the Configuration Scenario:
  - Sender Communication Component: SAP ERP
  - Sender Interface: CREMAS.CREMAS05
  - Sender Namespace: urn:sap-com:document:sap:idoc:messages

Then, configure the tabs as shown below:

Table 105

Tab	Field	Value
Inbound Processing	CT_Generic_Sending_HTTP_AAE_Channel_For_ERP_Outbound_IDOCs	Select the Sender Communication Channel Template
Receiver tab	Select SAP Sourcing Business System	Select the Receiver Communication Component
Receiver Interfaces	IM_ERP_Vendor_To_ES_Supplier	Select the Operation Mapping/ Receiver Interface
Outbound Processing	CT_Supplier_Receiving_File_Channel_For_ES	Select the Receiver Communication Channel Template

## 6.7.3 Configure Communication Channel and Integrated Configuration for SAP Sourcing Master Agreement and SAP SRM Central Contract Integration

### Prerequisites

Complete the following tasks before performing the steps in this section:

- [Configure Integrated Scenarios for SAP NetWeaver PI 7.3 AEX \[page 24\]](#)

### Procedure

#### Note

An SAP Net Weaver Process Integration (PI) expert must perform this procedure.

1. In the process integration tools (transaction `SXMB_IFR`), log into the Integration Builder (SAP NetWeaver PI 7.3 AEX or higher).
2. Select the communication channel that is associated with the SAP Sourcing business system and click [New](#). Enter the Communication Channel name, then go to ► [Communication Channel](#) ► [Apply Template](#) : “CT\_Generic\_Sending\_HTTP\_AAE\_Channel\_For\_ES\_Documents” ►.
3. Click [Save](#).
4. Select the communication channel that is associated with the SAP SRM business system and click [New](#). Enter the Communication Channel name, then go to ► [Communication Channel](#) ► [Apply Template](#) : “CT\_Generic\_Receiving\_SOAP\_Channel\_For\_SRM\_ESOA\_Service” ►.
5. Click [Save](#).
6. Configure the channel using the values in the table below:

Table 106

Parameter	Value
Adapter Type	<ul style="list-style-type: none"><li>• SOAP</li><li>• <code>http://sap.com/xi/XI/System</code></li><li>• SAP BASIS 7.30</li></ul>
Select	Receiver
Transport protocol	HTTP
Message Protocol	XI 3.0
Adapter Engine	Central Adapter Engine
Addressing Type	HTTP Destination
HTTP Destination	The logical System of the SAP SRM business system you created. For example, E9UCLNT300
Transfer Hop List	Select this option.

7. Click [Save](#).
8. Create the Integrated Configuration for Sending Master Agreement to SRM. to do this, select [Integrated Configuration](#) and click [New](#). Enter the following items, then add them to the Configuration Scenario:



- Sender Communication Component: SAP Sourcing Business System
- Sender Interface: MI\_ES\_Agreement
- Sender Namespace: <http://sap.com/xi/ESourcing/SRMJS/OP>

9. Configure the tabs as shown below:

Table 107

Tab	Field	Value
Inbound Processing	CT_Generic_Sending_HTTP_AAE_Channel_For_ES_Documents	Select the Sender Communication Channel Template
Receiver tab	Select SAP SRM Business System	Select the Receiver Communication Component
Receiver Interfaces	<ul style="list-style-type: none"> <li>• IM_ES_AGREEMENT_TO_SRM_CONTRACT_01</li> <li>• IM_ES_AGREEMENT_TO_SRM_CONTRACT_02</li> <li>• IM_ES_AGREEMENT_TO_SRM_CONTRACT_03</li> </ul>	Select the Operation Mapping/ Receiver Interface
Outbound Processing	CT_Generic_Receiving_SOAP_Channel_For_SRM_ESOA_Service	Select the Receiver Communication Channel Template.

**i Note**  
See the table "Additional Receiver Information" (below) for more information about these Receiver interfaces.

Table 108: Additional Receiver Information

Operation Mapping	Condition	Name
IM_ES_AGREEMENT_TO_SRM_CONTRACT_01	(/p1:MT_Agreement/fcdataexport/objects/object/fields/ACTION_CODE = 01) OR (/p1:MT_Agreement/fcdataexport/objects/object/fields/ACTION_CODE = )	PurchasingContractSRMCreateRequestConfirmation_In
IM_ES_AGREEMENT_TO_SRM_CONTRACT_02	(/p1:MT_Agreement/fcdataexport/objects/object/fields/ACTION_CODE = 02)	PurchasingContractSRMUpdateRequestConfirmation_In
IM_ES_AGREEMENT_TO_SRM_CONTRACT_03	(/p1:MT_Agreement/fcdataexport/objects/object/fields/ACTION_CODE = 03)	PurchasingContractSRMCancelRequestConfirmation_In

- Namespace: <http://sap.com/xi/ESOSRMINT/Global2>
- Software Component Version" ESO SRM INT 1.0

# Typographic Conventions

Example	Description
<Example>	Angle brackets indicate that you replace these words or characters with appropriate entries to make entries in the system, for example, "Enter your <User Name>".
► Example ► Example ▢	Arrows separating the parts of a navigation path, for example, menu options
Example	Emphasized words or expressions
<b>Example</b>	Words or characters that you enter in the system exactly as they appear in the documentation
<a href="#">www.sap.com</a>	Textual cross-references to an internet address
<a href="#">/example</a>	Quicklinks added to the internet address of a homepage to enable quick access to specific content on the Web
<a href="#">123456</a>	Hyperlink to an SAP Note, for example, SAP Note <a href="#">123456</a>
Example	<ul style="list-style-type: none"> <li>Words or characters quoted from the screen. These include field labels, screen titles, pushbutton labels, menu names, and menu options.</li> <li>Cross-references to other documentation or published works</li> </ul>
Example	<ul style="list-style-type: none"> <li>Output on the screen following a user action, for example, messages</li> <li>Source code or syntax quoted directly from a program</li> <li>File and directory names and their paths, names of variables and parameters, and names of installation, upgrade, and database tools</li> </ul>
EXAMPLE	Technical names of system objects. These include report names, program names, transaction codes, database table names, and key concepts of a programming language when they are surrounded by body text, for example, SELECT and INCLUDE
<span>EXAMPLE</span>	Keys on the keyboard





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