

EDI COCKPIT

Configuration Guide

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Table of Contents

Introduction	5
Overview.....	5
About this guide.....	5
Typographical conventions.....	6
About EDI COCKPIT	7
Overview.....	7
Document types.....	7
<i>IDocs</i>	7
<i>Collective invoices</i>	7
<i>e-Invoices</i>	8
Installation.....	8
Technical overview	9
SAP configuration.....	10
Overview.....	10
Input type	10
Message and IDoc type.....	11
Creating a process code.....	13
Modifying partner profiles	15
EDI COCKPIT IMG	17
Overview.....	17
Basic settings	18
Define data transfer from SAP IDoc interface	18
<i>Define profiles</i>	18
<i>Define structures</i>	20
<i>Defining incoming data</i>	21
Fixed mapping of IDoc field values to EDI COCKPIT field values	22
Settings to receive electronic invoices	23
<i>Define sender and receiver profiles</i>	23
<i>Define number and type of incoming files</i>	24
Set assignment rules for collective invoices.....	25
Activate user exits	25
Create test IDoc.....	26
<i>Create test IDoc</i>	26

<i>Data definition to generate a test IDoc</i>	26
Creating test IDocs	27
Overview.....	27
Creating IDocs.....	27
Viewing IDocs.....	28
Sending IDocs to PROCESS DIRECTOR.....	29
Appendix A: Tables.....	33
Appendix B: User Exits	34
Overview.....	34
<i>Interface structure</i>	34
List of User Exits.....	34
<i>User Exit 600 – Change of IDoc data before processing</i>	35
<i>User Exit 601 – Check SAP document of an IDoc</i>	36
<i>User Exit 602 – Retrieve SAP document number for a posted IDoc.....</i>	37
<i>User Exit 603 – Determine fiscal year for a posted IDoc.....</i>	38
<i>User Exit 604 – Determine company code for a posted IDoc.....</i>	39
<i>User Exit 605 – Check if IDoc is an FI or MM document.....</i>	41
<i>User Exit 606 – Changes before mapping of IDoc to a PROCESS DIRECTOR document.....</i>	42
<i>User Exit 607 – Changes before transferring IDoc to PROCESS DIRECTOR</i>	43
<i>User Exit 608 – Changes before transferring IDoc to PROCESS DIRECTOR</i>	44
<i>User Exit 609 – Change of IDoc data after processing</i>	46
<i>User Exit 610 – Determine posting function of an IDoc.....</i>	47
<i>User Exit 611 – XML import, changes in files.....</i>	48
<i>User Exit 612 – XML import, changes in XML before transfer to IDoc.....</i>	49
<i>User Exit 613 – XML import, retrieve invoice GUID from IDoc.....</i>	50
Appendix C: Transactions.....	52
Glossary	53

Introduction

Overview

EDI COCKPIT is a component of PROCESS DIRECTOR Accounts Payable, which acts as an interface for incoming IDocs. IDocs can be converted into regular PROCESS DIRECTOR documents that can then be edited, posted, and sent to workflows in WORK CYCLE.

IDocs often contain errors that prevent them from being posted. Data may be missing or the data may be incorrectly formatted. Correcting these errors in SAP is not the easiest of tasks. In addition, the people who have permissions to correct the data often lack the required business knowledge. EDI COCKPIT solves this problem by converting them into regular PROCESS DIRECTOR documents that can be processed by Accounts Payable staff in the usual manner.

This document explains how to configure EDI COCKPIT to enable the receipt and processing of IDocs in your PROCESS DIRECTOR installation.

About this guide

This document contains the following chapters:

- [About EDI COCKPIT](#)

Lists the different document types supported by EDI COCKPIT. Also contains some notes on installation and a technical overview of how EDI COCKPIT works.

- [SAP configuration](#)

To enable EDI COCKPIT, you must configure your SAP system accordingly.

- [EDI COCKPIT IMG](#)

A reference that describes all the settings in the EDI COCKPIT IMG.

- [Creating test IDocs](#)

You can create test IDocs in EDI COCKPIT to test your configuration, including User Exits you have implemented. This chapter explains how, and you can follow a document from its inception as an IDoc to its creation in PROCESS DIRECTOR.

- [Appendix A: Tables](#)

This chapter lists the main configuration tables in EDI COCKPIT.

- [Appendix B: User Exits](#)

EDI COCKPIT comes with several User Exit interfaces that you can use to customize the application, including the modification of IDoc data before and during processing by EDI COCKPIT.

- [Appendix C: Transactions](#)

A list of the most common IDoc transaction codes in SAP standard.

- [Glossary](#)

Describes some important terms you should be familiar with.

Typographical conventions

The following typographical conventions are used:

- Menu names, commands, and dialog names appear in **bold**.
- Names of keys on your keyboard appear in **SMALL CAPITAL LETTERS**.
- Names of files, folders, and settings appear in `Courier` font.
- SAP transaction codes and program names appear in `ARIAL MONOSPACE`.
- Variables that must be replaced by an actual value are *italicized* or appear in `< >`.

About EDI COCKPIT

Overview

This chapter contains the following sections:

- [Document types](#)
- [Installation](#)
- [Technical overview](#)

Document types

EDI COCKPIT processes three types of documents:

- [IDocs](#)
- [Collective invoices](#)
- [e-Invoices](#)

IDocs

IDocs are a file format used by SAP to exchange data between systems belonging to different partners. IDocs can be processed in EDI COCKPIT in three different ways:

- All IDocs are processed by EDI COCKPIT and converted to PROCESS DIRECTOR documents. The standard SAP processing is not performed.
- Only IDocs with errors are processed by EDI COCKPIT. IDocs without errors are processed by the standard SAP interface and are not imported into PROCESS DIRECTOR.
- All IDocs are processed by EDI COCKPIT and converted to PROCESS DIRECTOR documents. Documents without errors are posted by the standard SAP interface, and are subsequently converted to posted PROCESS DIRECTOR documents.

Collective invoices

A collective invoice is the electronic version of a covering document that includes one or more PROCESS DIRECTOR documents. They are used as a way for both vendors and purchasers to track invoices, when vendors send large numbers of them.

Display Invoice 138874 (4 / 4)

Cockpit SP Tests / 2600 Jones Lang LaSalle GmbH, Frankfurt am Main Bal. 0,00 EUR

General Invoice Taxes, rates Vendor Others

FI / MM Doc FI State 11 Collective inv.

Document data

PD doc type XX Cock... Text SP75 QA_TEST_0012 10.07.2007 20:07:07

PO document Header text QA_TEST_0012

Delivery note ☒ Invoice ☐ Sub. deb./cred.

Terms of payment from SAP

Payment terms ZB01 Days 2 30

Baseline date Days 1 14 Disc. percent 2 2,000

Cash discount 0,00 Disc. percent 1 3,000 Days net 45

Status	Net amount	Gross amo...	Text	IDoc number	S.	DocNo	F.
✓	100,00	49.880,00	unique text	0		146545	
✗	100,00	0,00	Line 1	0			

The state indicates it is a collective invoice. 10 for complete, 11 for incomplete.

The list of invoices contained in the collective invoice, displaying the document number and status.

A collective invoice contains:

- The list of invoices.
- The scanned image of the original collective invoice. This image is also attached to the individual invoices.
- The status:
 - 10 – Complete. All listed invoices are found in PROCESS DIRECTOR.
 - 11 – Uncompleted. One or more listed invoices are not in PROCESS DIRECTOR.

Unlike normal invoices, collective invoices cannot be posted, parked, or sent to a WORK CYCLE workflow.

e-Invoices

Electronic invoices are sent by document verification companies, in a variety of formats. EDI COCKPIT can process e-invoices if they are sent in IDoc format. If they are in another format, ReadSoft DOCUMENTS is used to interpret the invoice data before sending to PROCESS DIRECTOR.

Installation

EDI COCKPIT is contained as part of the PROCESS DIRECTOR transport. It has a separate license that you must activate. For details on installation and licenses, see the following ReadSoft guides:

- *PROCESS DIRECTOR Accounts Payable Importing into SAP*
- *PROCESS DIRECTOR Accounts Payable Configuration Guide*

Technical overview

EDI COCKPIT is a function module, which is specified in the process code in the partner profile. Therefore, all partner profiles that will process incoming IDocs with the EDI COCKPIT must use the EDI COCKPIT process code (ZEBY_EDI).

For documents posted using the standard SAP EDI interface, you then map all the customized data from IDoc into PROCESS DIRECTOR and then set the correct data in them (for example, the document status). IDoc segments must be numbered (they always are when using the INVOIC02 basic type). If the segments are not numbered, a User Exit is required to perform the mapping.

EDI COCKPIT can also retrieve the basic document data from the posted SAP document (SAP document number, fiscal year, FI/MM flag, and Company Code in case of FI documents) in order to add the correct document data into PROCESS DIRECTOR. By default, EDI COCKPIT takes the SAP document number from the IDoc status (message content). You can also use [User Exit 601](#) to retrieve this number using a different method.

Using this same User Exit, the fiscal year can also be set differently. For the FI/MM flag, it is determined the same way as in PROCESS DIRECTOR: A document is considered to be an MM document if a value exists for the purchase order or delivery note fields, either in the header or item structures. Otherwise, the document is considered an FI one. The only difference is that the source of the data is not in PROCESS DIRECTOR but in the IDoc data.

For FI documents, the company code field is required to determine the posted SAP document. The SAP document number, fiscal year, FI/MM flag, and Company Code can all be determined in other ways, using [User Exits](#).

After the mapping is complete, the final task is to send the document to PROCESS DIRECTOR, using the regular /COCKPIT/RFC_DATA_SUBMIT function. For documents already posted, a posted PROCESS DIRECTOR document is created and no checks are performed.

If the [Transfer posted IDoc](#) setting is inactive, documents posted using the standard SAP EDI interface are not transferred to PROCESS DIRECTOR. EDI COCKPIT only calls the original function module.

All messages (warnings, errors and successes), are added to the PROCESS DIRECTOR document and IDoc status is also updated.

EDI COCKPIT can also create images or documents based on the IDoc for archiving, such as PDFs, XML, and HTML files.

SAP configuration

Overview

To enable EDI COCKPIT, you must configure your SAP system accordingly. Essentially, your system must be modified so that incoming IDocs (for selected partners) are processed using EDI COCKPIT and not the standard SAP EDI interface.

This is described in the following sections:

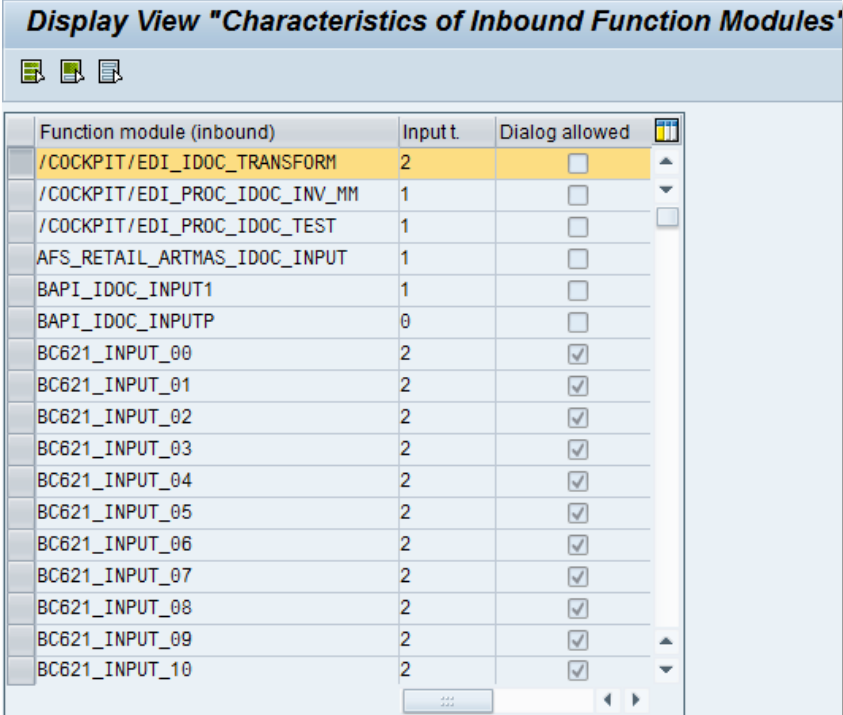
- [Input type](#)
- [Message and IDoc type](#)
- [Creating a process code](#)
- [Modifying partner profiles](#)

Input type

The **Input type** for the /COCKPIT/EDI_IDOC_TRANSFORM function module must be **1 – Individual input**.

1. Go to transaction BD51.
2. Set the **Input type** for /COCKPIT/EDI_IDOC_TRANSFORM to **1 – Individual input**.

Display View "Characteristics of Inbound Function Modules"



Function module (inbound)	Input t.	Dialog allowed
/COCKPIT/EDI_IDOC_TRANSFORM	2	<input type="checkbox"/>
/COCKPIT/EDI_PROC_IDOC_INV_MM	1	<input type="checkbox"/>
/COCKPIT/EDI_PROC_IDOC_TEST	1	<input type="checkbox"/>
AFS_RETAIL_ARTMAS_IDOC_INPUT	1	<input type="checkbox"/>
BAPI_IDOC_INPUT1	1	<input type="checkbox"/>
BAPI_IDOC_INPUTP	0	<input type="checkbox"/>
BC621_INPUT_00	2	<input checked="" type="checkbox"/>
BC621_INPUT_01	2	<input checked="" type="checkbox"/>
BC621_INPUT_02	2	<input checked="" type="checkbox"/>
BC621_INPUT_03	2	<input checked="" type="checkbox"/>
BC621_INPUT_04	2	<input checked="" type="checkbox"/>
BC621_INPUT_05	2	<input checked="" type="checkbox"/>
BC621_INPUT_06	2	<input checked="" type="checkbox"/>
BC621_INPUT_07	2	<input checked="" type="checkbox"/>
BC621_INPUT_08	2	<input checked="" type="checkbox"/>
BC621_INPUT_09	2	<input checked="" type="checkbox"/>
BC621_INPUT_10	2	<input checked="" type="checkbox"/>

Message and IDoc type

You must create multiple entries for the /COCKPIT/EDI_IDOC_TRANSFORM function module based on each entry for the standard IDOC_INPUT_INVOIC_FI and IDOC_INPUT_INVOIC_MM function modules.

1. Go to transaction WE57.
2. Go to the first instance of the IDOC_INPUT_INVOIC_FI function module. For example, for the BKPF business object.
3. Use **2 – Individual input with IDoc lock in CALL TRANSACTION** if 1 causes documents to lock.

Display View "IDoc: Assignment of FM to Log. Message and IDoc"

Processing by

Module	IDOC_INPUT_INVOIC_FI
Type	F

IDoc type

Basic type	INVOIC01
Extension	

Message

Message type	INVOIC
	Invoice / billing document
Message code	FI
Msg.function	

Object

Object type	BKPF	Accounting document
-------------	------	---------------------

Direction

Display View "IDoc: Assignment of FM to Log. Message and IDoc"

Processing by

Module

Type

IDoc type

Basic type

Extension

Message

Message type

Invoice / billing document

Message code

Msg.function

Object

Object type Accounting document

Direction

4. Create a new entry for the /COCKPIT/EDI_IDOC_TRANSFORM function module and copy the values from IDOC_INPUT_INVOIC_FI to it.
5. Repeat steps 2. and 3. for each of the IDOC_INPUT_INVOIC_FI and IDOC_INPUT_INVOIC_MM function modules, making a copy of them for the /COCKPIT/EDI_IDOC_TRANSFORM function module.

Depending on your system, the result will look something like this:

Display View "IDoc: Assignment of FM to Log. Message and IDoc Type"					
Function module	FctTyp	BasicTyp	Log.mess.type		
Obj. type	Dirctn	Extensio	Msg.code	MsgFnct.	
<input type="checkbox"/> /COCKPIT/EDI_IDOC_TRANSFORM	F	INVOIC01	INVOIC		
BKPF	2		FI		
<input type="checkbox"/> /COCKPIT/EDI_IDOC_TRANSFORM	F	INVOIC01	INVOIC		
BUS2020	2		FI		
<input type="checkbox"/> /COCKPIT/EDI_IDOC_TRANSFORM	F	INVOIC01	INVOIC		
BUS2081	2		MM		
<input type="checkbox"/> /COCKPIT/EDI_IDOC_TRANSFORM	F	INVOIC02	INVOIC		
BKPF	2		FI		
<input type="checkbox"/> /COCKPIT/EDI_IDOC_TRANSFORM	F	INVOIC02	INVOIC		
BUS2020	2		FI		
<input type="checkbox"/> /COCKPIT/EDI_IDOC_TRANSFORM	F	INVOIC02	INVOIC		
BUS2081	2		MM		
<input type="checkbox"/> /COCKPIT/EDI_PROG_IDOC_TEST	F	INVOIC01	INVOIC		
BUS2081	2		MM		
<input type="checkbox"/> /COCKPIT/EDI_PROG_IDOC_TEST	F	INVOIC02	INVOIC		
BUS2081	2		MM		
<input type="checkbox"/> AES_RETAL_APTMAS_IDOC_INPUT	F	APTMAS01	APTMAS		

Creating a process code

A custom process code is needed to convert IDocs to SAP documents. It must be based on your existing INVL process code.

Process codes are client-dependent.

1. Go to transaction WE42.
2. Go to the first instance of the INVL process code. Note the settings.

Change View "Inbound process code": Details

New entries [Icons]

Dialog Structure

- Inbound process code
 - Logical message

Process code: INVL

Description: INVOIC MM Logistics invoice verification (MM)

Identification: IDOC_INPUT_INVOIC_MRM [Icon]

Option ALE

- ☒ Processing with ALE service
- ☐ Processing w/o ALE service

Processing type

- ☐ Processing by task
- ☒ Processing by function module
- ☐ Processing by process

3. Create a new process code, copying the settings from INVL.
Use a custom process code name, for example, ZEBY_EDI.
4. Specify the /COCKPIT/EDI_IDOC_TRANSFORM as the function module.

Change View "Inbound process code": Details

New entries [Icons]

Dialog Structure

- Inbound process code
 - Logical message

Process code: ZEBY_EDI

Description: ReadSoft EDI COCKPIT

Identification: /COCKPIT/EDI_IDOC_TRANSFORM [Icon]

Option ALE

- ☒ Processing with ALE service
- ☐ Processing w/o ALE service

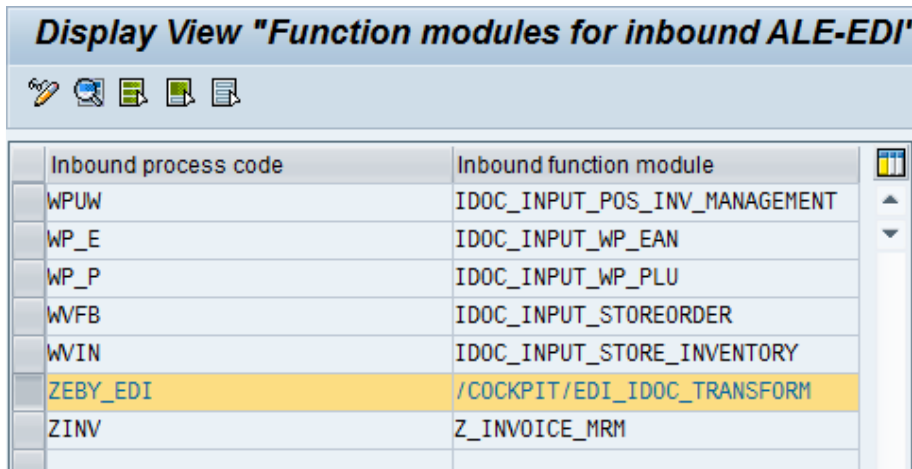
Processing type

- ☐ Processing by task
- ☒ Processing by function module
- ☐ Processing by process

5. Save your entry
6. Go to transaction SM30 and display the TBD52 table.
7. Copy the entry for the INVL process code to a new entry: ZEBY_EDI.

8. Save, and exit the view.
9. Display the same table again, and change **Function module** from IDOC_INPUT_INVOIC_MRM to /COCKPIT/EDI_IDOC_TRANSFORM.

Display View "Function modules for inbound ALE-EDI"



Inbound process code	Inbound function module
WPUW	IDOC_INPUT_POS_INV_MANAGEMENT
WP_E	IDOC_INPUT_WP_EAN
WP_P	IDOC_INPUT_WP_PLU
WVFB	IDOC_INPUT_STOREORDER
WVIN	IDOC_INPUT_STORE_INVENTORY
ZEBY EDI	/COCKPIT/EDI_IDOC_TRANSFORM
ZINV	Z_INVOICE_MRM

Modifying partner profiles

For all partner profiles that are to process IDocs via EDI COCKPIT, you must change the process type for inbound parameters containing the **INVOIC** message type.

In the EDI COCKPIT configuration, you have the option to process certain IDocs via the standard SAP EDI interface, rather than EDI COCKPIT (for example, those with no errors).

1. Go to transaction WE20.
2. Select a partner profile that is to process IDocs via EDI COCKPIT.
3. In the **Inbound parameters** table, open the first entry containing the **INVOIC** as the **Message type**.
4. On the **Inbound options** tab, change the **Process code** to [the custom one you created](#).

This process code points to the /COCKPIT/EDI_IDOC_TRANSFORM function module, which will be used to process incoming IDocs.

5. Repeat steps 3. and 4. for all other **INVOIC** message type entries.
6. Repeat steps 2-5 for all partner profiles that are to process IDocs via EDI COCKPIT.

The other parameters in the partner profiles do not need to be changed.

Partner profiles: Inbound parameters

Partn.number
10000
IDES AG

Partn.type
LI
Vendor

Partn.funct.

Message type
INVOIC
Invoice / billing document

Message code
FI

Message function
☐ Test

Inbound options

Post processing: permitted agent

Telephony

Process code
ZEBY EDI
☐ INVOIC FI Invoice receipt (Fin...

☒ Syntax check

Processing by function module

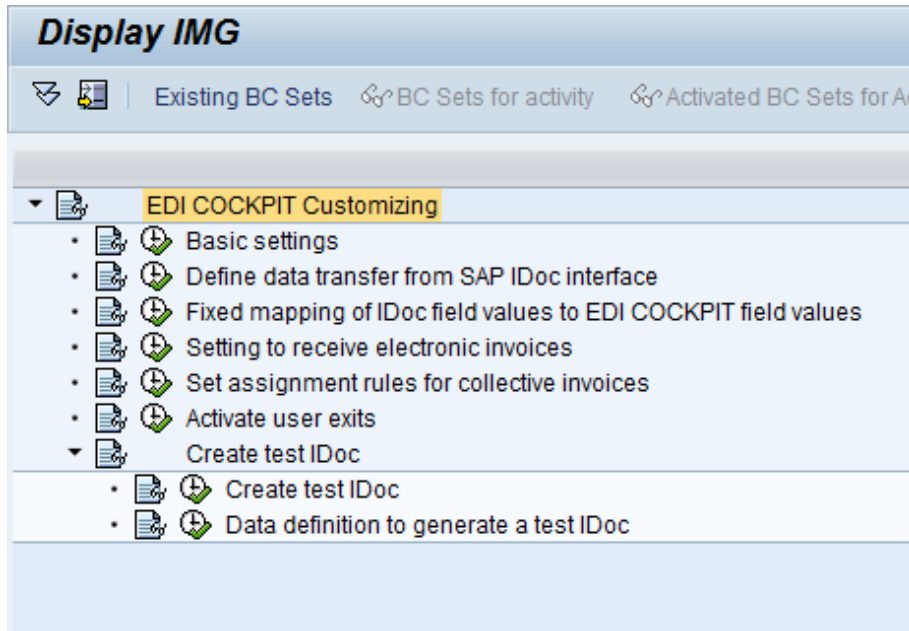
☐ Trigger by background program
☒ Trigger immediately

Example of an inbound parameter for FI invoices using a custom process type.

EDI COCKPIT IMG

Overview

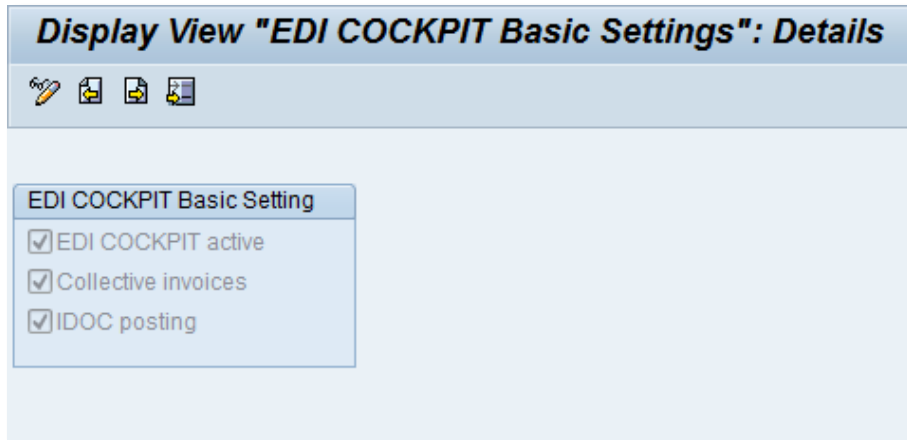
The /COCKPIT/EI transaction opens the configuration menu for EDI COCKPIT in SAP.



- [Basic settings](#)
- [Define data transfer from SAP IDoc interface](#)
- [Fixed mapping of IDoc field values to EDI COCKPIT field values](#)
- [Settings to receive electronic invoices](#)
- [Activate user exits](#)
- [Create test IDoc](#)

Basic settings

/COCKPIT/EI2



Setting	Description
EDI COCKPIT active	Enables EDI COCKPIT. If disabled, EDI COCKPIT does not process incoming IDocs. Instead, EDI COCKPIT places a status message in the created IDocs in the system.
Collective invoices	Enables the processing of collective invoices.
IDOC posting	Enables the processing of IDocs. Note: If this option is enabled, PROCESS DIRECTOR documents with unplanned multi-account assignments cannot be posted; the Perform function must be used instead.

Define data transfer from SAP IDoc interface

/COCKPIT/EI1

Define profiles

You must create an entry in this table for every partner profile in your system (WE20) for which you want to use EDI COCKPIT to process incoming documents.

Profile definition fields

The first fields, listed below, define the partner profile to activate EDI COCKPIT processing. The profiles you define here must match those in SAP standard (WE20) in order for EDI COCKPIT to process incoming documents from that partner. There is one exception, the **Partner number**, which can be different between the two profile definitions. A match is found as long as all other fields are identical.

Profile name	Partner function	Message function
Partner number	Message type	Test
Partner type	Message code	

If a profile is marked as **Test**, documents from this profile cannot be posted.

Other fields

Setting	Description
Posting as IDoc	Posts documents as standard IDocs, using the Process code (below).
Process code	The code used to post the IDoc. This code is used to lookup the function in the TDB52 table to perform the posting, for example, IDOC_INPUT_INVOIC_FI.
Posting copy of data	Posts a copy of the original IDoc.
Generate SAP data	Determines the method of populating data in the resulting PROCESS DIRECTOR document for IDocs posted outside of EDI COCKPIT. Active Data is gotten from SAP. Inactive Data is gotten from the IDoc.
PD document type	The PROCESS DIRECTOR document type to use for created documents. It is also possible to change this due to different conditions in a User Exit.
Transfer posted IDoc	IDocs posted using the SAP standard IDoc interface are sent to PROCESS DIRECTOR and posted documents created there.
Status non-posted IDoc	The IDoc status for unposted documents. If no value is specified, 53 (posted) is used.

Setting	Description
SmartForm MM for PDF SmartForm FI for PDF	EDI COCKPIT allows you to create a paper-like PDF file before transferring the document to PROCESS DIRECTOR. The PDF file is connected to the PROCESS DIRECTOR document as the primary image. There are two templates that you can use: one for FI and one for MM documents. You can change or copy them as needed: /COCKPIT/EDI_FI and /COCKPIT/EDI_MM.
Archive document type	The document type used to archive the above SmartForms.
e-Invoicing sender ID	The ID of the sender.
Receiver ID	The ID of the receiver.

Define structures

Every structure has its own set of field definitions or mappings that indicate which field from which segment, in the incoming IDoc, is mapped to which field and structure in PROCESS DIRECTOR .

Setting	Description
Segment name	The segment ID in the IDoc.
Structure	The type of field in PROCESS DIRECTOR.

Define fields

Here, the fields between the IDoc and PROCESS DIRECTOR document are mapped.

Setting	Description
Field name	The ID of the PROCESS DIRECTOR field.
Segment name	The segment ID in the IDoc.
IDoc field name	The ID of the IDoc field.
Additional field	...
Field value	You can specify a pre-determined value for the field here. If you do, you must leave the Field name and Segment name blank.

Setting	Description
Item ID	Use when some fields from segments needs to be changed permanently. For example when USD should always be changed to EUR. This configuration takes place in the /COCKPIT/CEDIM table. If the value in the incoming IDoc segment field matches that required in the /COCKPIT/CEDIM table, it is changed to value from that table.
Search type	<p>1 - Field search in this segment</p> <p>The field is searched in the defined segment name. This is useful for getting data for one entry table (for example, Header structure).</p> <p>2 - Field search in dependent segment</p> <p>The field is searched in all of the sub-segments (tree-like structure) of the defined segment name. This is useful for getting data for many table entries. It means that one segment in IDoc with this name will cause one entry in many entries table (Items, Accounts and Taxes structures).</p> <p>3 - Field search in other segments</p> <p>The field is searched in every main segment in the incoming IDoc. This is useful for getting information for headers.</p>
Add values	<p>Can be used when the data in an IDoc is stored in many of the same IDoc fields (e.g. long texts).</p> <p>Active – The data is concatenated and put into one PROCESS DIRECTOR field.</p> <p>Inactive – Only the first IDoc field is saved in the PROCESS DIRECTOR field.</p>

Defining incoming data

The purpose of this table is to assist in the determination of the company code, the document type (FI/MM), and the fiscal year of the incoming IDoc. In some cases, fields are duplicated in this table (for example, **Company code field**), allowing you to specify more than IDoc field that may represent it.

Display View "Define incoming data": Details

Profile Name:

Define incoming data

Company Code Sgmt	<input type="text" value="E1EDK14"/>
Company Code Field	<input type="text" value="ORGID"/>
Company Code Field	<input type="text" value="QUALF"/>
Addtl Company Code	<input type="text" value="011"/>
PO Number Segment	<input type="text" value="E1EDK02"/>
PO Number Field	<input type="text" value="BELNR"/>
PO Number Field	<input type="text" value="QUALF"/>
Additional PO No.	<input type="text" value="001"/>
Delivery Note Sgmt	<input type="text"/>
Delivery Note Field	<input type="text"/>
Delivery Note Field	<input type="text"/>
Addtl Delivery Note	<input type="text"/>
PO Number Segment	<input type="text"/>
PO Number Field	<input type="text"/>
PO Number Field	<input type="text"/>
Additional PO No.	<input type="text"/>
Delivery Note Sgmt	<input type="text"/>
Delivery Note Field	<input type="text"/>
Delivery Note Field	<input type="text"/>
Addtl Delivery Note	<input type="text"/>

Fixed mapping of IDoc field values to EDI COCKPIT field values

/COCKPIT/EI3

Here you can change the values in IDoc documents. Field values are changed by searching for values only, not field names.

Display View "EDI COCKPIT modify field values table": Overview

EDI COCKPIT modify field values table

Item ID	IDoc field value	IDoc field value
1	VAT	Tax
2	DEM	EUR
3	ST	PCE

Setting	Description
Item ID	The ID of the mapping entry. The first entry must be 1, the second 2, and so on.
IDoc field value	The value in the IDoc.

Setting	Description
IDoc field value	The new value, which is saved in the PROCESS DIRECTOR document.

Settings to receive electronic invoices

/COCKPIT/EI7

This table is used to configure the receipt of electronic invoices from document verification companies.

Define sender and receiver profiles

Setting	Description
Sender ID Receiver ID	The ID of the sender and receiver.
Data type	The type of file containing the IDoc (XML, flat text).
Path name	Path for a temporary file to load the IDoc file into EDI COCKPIT, if an empty default directory is used.
IDoc_beginning	A string representing the beginning of an IDoc in the incoming XML or flat text file.
Cut string at start	Option if the start of the string should be removed or not.
IDoc_end	A string representing the end of an IDoc in the incoming XML or flat text file.
Cut the end string	Option if the end of the string should be removed or not
Segment name IDoc field name	A name of a segment and a field in IDoc where a new invoice GUID is written to pass to EDI COCKPIT.

Setting	Description
Segment Name IDoc Field Name Receiver port Rec.partn.type Rec.partn.funct Receiver Sender port Partn.type Partn.funct Partn.number Message type Message code Msg.function	IDoc control record data. A new IDoc is created with these values in the control record. The values should fit to the customer's EDI SAP settings and to profiles set in /COCKPIT/EI1.
Port for XML Port for File	The port to use for creating the IDoc from XML and text files (SAP 4.7 and later only).

Define number and type of incoming files

This table defines the attachments expected from the sender.

Setting	Description
Sender ID Receiver ID	The ID of the sender and receiver.
Sort number	Order of files.
File name pattern	The name of the incoming file. Does not have to be exact, wildcards such as '*' or '?' can be used here.
MimeType	Binary data or text data.
Document type	The document type used for archiving the attachment.

Setting	Description
Document (attachment) type	<p>Indicates whether the attachment is an IDoc, an image, or another kind of file.</p> <ul style="list-style-type: none"> Other (unknown) IDoc – will be converted to IDoc Primary attachment – will be inserted as the primary image in PROCESS DIRECTOR (PDF, TIFF, etc.)

Set assignment rules for collective invoices

/COCKPIT/EI6


PROCESS DIRECTOR creates documents for collective invoices as well as the invoices the collective invoice contains. In order to create the PROCESS DIRECTOR document for the collective invoice, this mapping table is used.

The **Profile Name** field must be left blank. It is not yet used.

Setting	Description
Invoice	The ID of the field on the invoice.
Collective invoice	The ID of the field on the collective invoice.

Activate user exits

/COCKPIT/EI13

Setting	Description
User Exits	The ID of the EDI COCKPIT User Exit template/interface. It is necessary for the correct connection of the User Exit to the processes to be adjusted.
Function module	The name of the User Exit.
No standard	Indicates the User Exit replaces standard functionality in EDI COCKPIT.
	Shortcut to view and edit the User Exit.

Create test IDoc

You can create test IDocs in EDI COCKPIT to test your configuration, including User Exits you have implemented. You specify the values for the IDoc fields. Resulting IDocs are the **INVOIC02** basic type.

Create test IDoc

/COCKPIT/EI5

For the test documents you create, you must provide some basic information about the sender and receiver.

Setting	Description
IDoc type	The IDoc template number. You can create up to nine IDoc templates, from which the IDocs are created. The field values for each IDoc type are specified in /COCKPIT/EI4.
Number of IDocs to create	The number of IDocs to create.
Recipient/Partner settings	Information about the recipient of the test IDocs. Test flag – All of the settings relevant to partner settings in the SAP ALE/EDI settings. All these settings can be maintained in WE20 transaction code.
Sender settings	Information about the sender of the test IDocs.

Data definition to generate a test IDoc

/COCKPIT/EI4

This table contains the field values for the IDocs you wish to create.

Setting	Description
IDoc type	The IDoc template number. You can create up to nine IDoc templates, from which the IDocs are created.
Segment order	All segments must be numbered sequentially.
Segment name	The name of the segment for the INVOIC02 basic type.
Field name	The field ID for the segment.
Field value	The value to be added to the created IDoc.

Creating test IDocs

Overview

You can create test IDocs in EDI COCKPIT to test your configuration, including User Exits you have implemented.

- [Creating IDocs](#)
- [Viewing IDocs](#)
- [Sending IDocs to PROCESS DIRECTOR](#)

Creating IDocs

To create test IDocs:

Specify the data for your document(s) in [/COCKPIT/EI4](#).

Generate the documents in [/COCKPIT/EI5](#).

Viewing IDocs

After the IDocs are created, you can view them in WE02.

IDoc list

Default sel. Addit.selctn EDI sel.

Time created 00:00:00 to 24:00:00

Date created 11.08.2011 to 11.08.2011

Time of last change 00:00:00 to 24:00:00

Date of last change to

Direction to

IDoc number to

Current status to

Basic type to

Extension to

Logical message to

Port of sender to

Partner type of sender to

Partner number of sender to

Port of recipient to

Partner type of recipient to

Partner number of recipient to

WE20 – IDoc selection screen.

SAP R/3

Selected IDocs

IDoc number	Seg...	Sta...	Sta...	Partner	BasicType	Date created	Tr
00000000005637	18	53	00	LS/ /DR1CLNT...	INVOIC02	15.07.2011	16
00000000005637	18	53	00	LS/ /DR1CLNT...	INVOIC02	15.07.2011	16
00000000005637	18	53	00	LS/ /DR1CLNT...	INVOIC02	15.07.2011	16
00000000005637	18	53	00	LS/ /DR1CLNT...	INVOIC02	15.07.2011	16
00000000005637	18	53	00	LS/ /DR1CLNT...	INVOIC02	15.07.2011	16

Search result.

SAP R/3

IDoc display

▼ IDoc 0000000000563745

- Control rec.
- Data records
 - E1EDK01 Segment 000001
 - E1EDKA1 RS Segment 000002
 - E1EDKA1 RE Segment 000003
 - E1EDK02 001 Segment 000004
 - E1EDK02 009 Segment 000005
 - E1EDK03 012 Segment 000006
 - E1EDK03 026 Segment 000007
 - E1EDK04 Segment 000008
 - E1EDK14 011 Segment 000009
 - E1EDP01 Segment 000010
 - E1EDS01 011 Segment 000018
- Status records

Total number: 00001

Technical short info

Direction 2 Inbox

Current status 53

Basic type INVOIC02

Extension

Message type INVOIC

Partn.number DR1CLNT800

Partn.type LS

Port SAPTR1

Content of selected segment

Fid name	Fid cont.
KZABS	X
CURCY	EUR
BSART	KG
BELNR	5000006271
AUGRU_BEZ	QA_TEST_0030

IDoc details.

Sending IDocs to PROCESS DIRECTOR

After you have created your IDocs, you can send them to PROCESS DIRECTOR and test that EDI COCKPIT handles them correctly. You do this in SAP transaction WE19.

Test tool for IDoc processing

Template for test

☒ Existing IDoc 563745

☐ BasicType

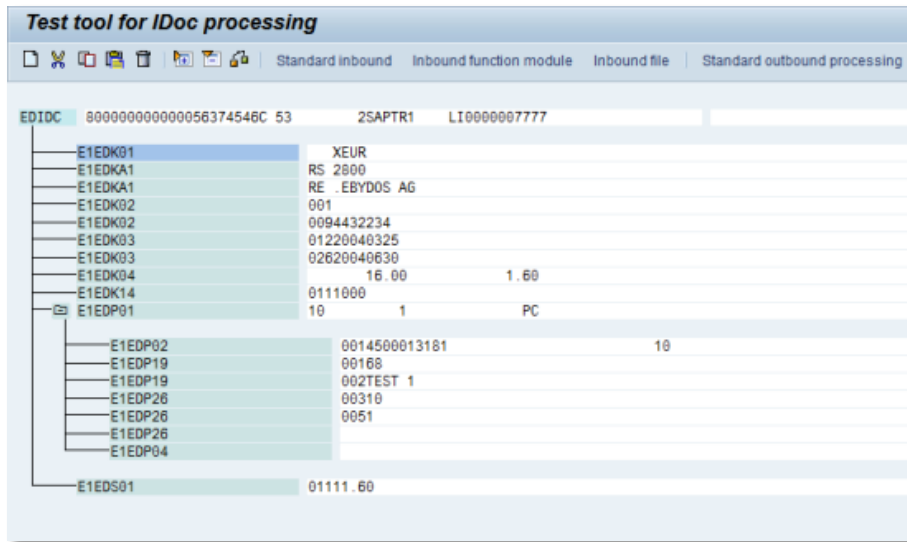
☐ with Enhancement

☐ Via message type

☐ File as template

☐ w/o template

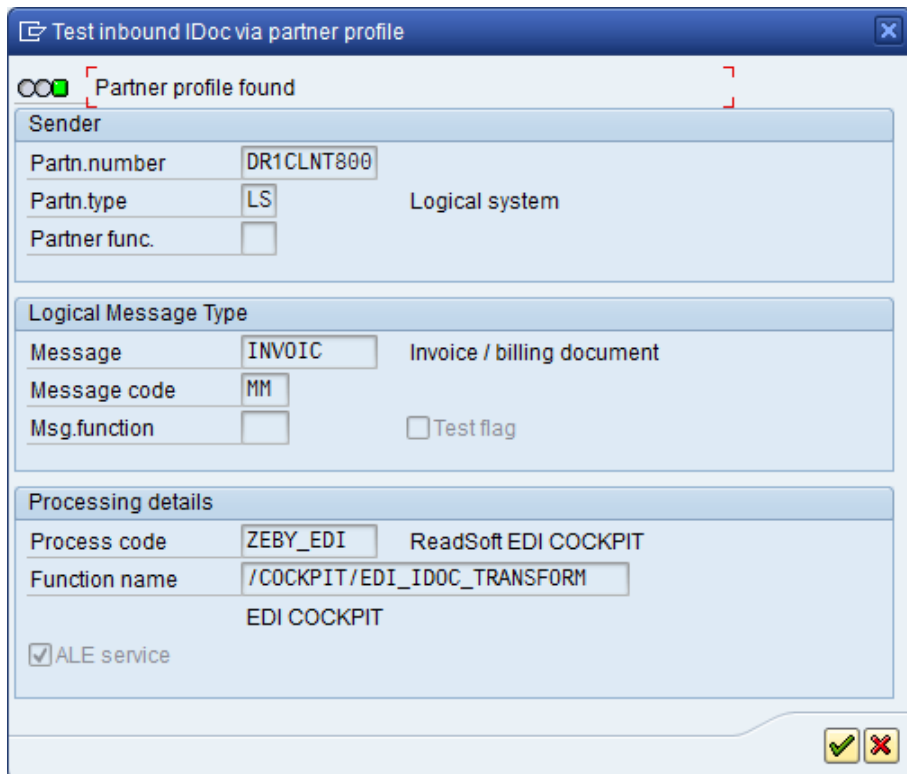
WE19 – Enter an IDoc number you generated in /COCKPIT/EI5.



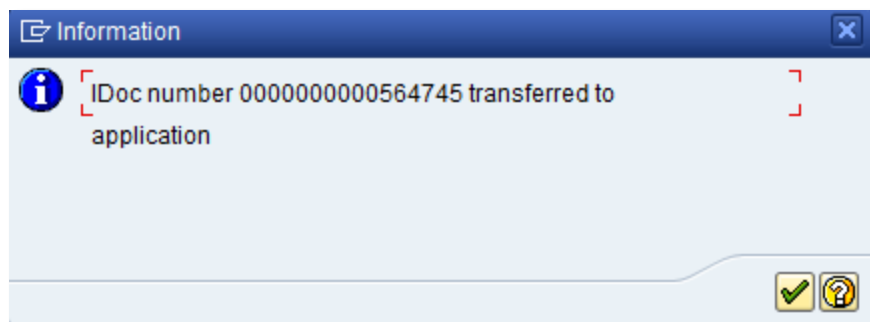
Preview of the IDoc.

In the IDoc preview window, click the **Standard inbound** button.

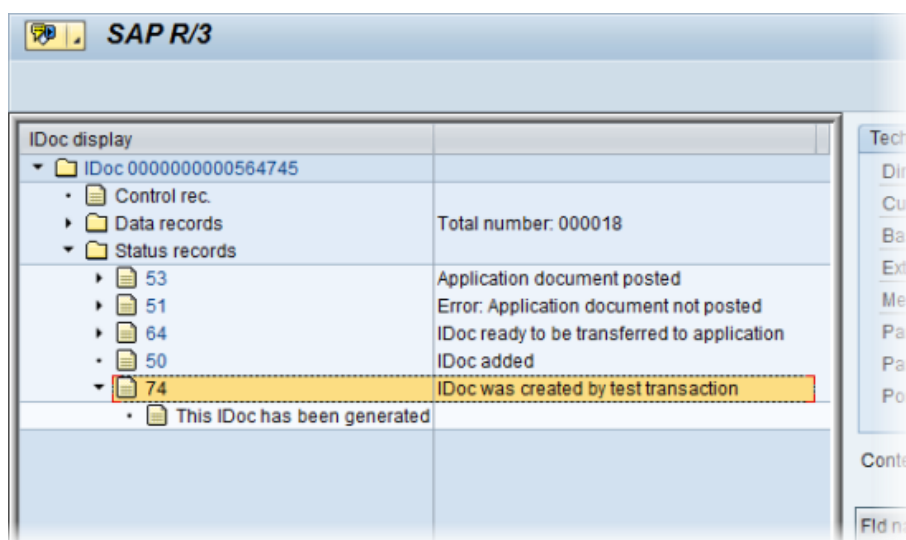
This button is only enabled when all EDI settings in SAP system are configured correctly.



A partner profile is found. Note this document will be sent to EDI COCKPIT.



Confirmation the IDoc was successfully sent.



The status of the IDoc shows that it was sent.

Display Invoice 173702 (1 / 100)

Dynamic discounting

IDoc / 2800 Tendi Deutschland GmbH & Co. KG, Pfronten Bal. 0,00 EUR

General Invoice Taxes, rates Vendor Others

FI / MM Doc MM State 03 Posted

Document data

PD doc. type ID IDoc Text

PO document 4500013181 Header text QA_TEST_0030

Delivery note ☒ Invoice ☐ Sub. deb./cred.

Terms of payment from SAP

Payment terms ZB01 Days 2 30

Baseline date Days 1 14 Disc.percent 2 2,000

Cash discount 0,00 Disc.percent 1 3,000 Days net 45

It...	Purchasin...	Item	Net amount	Gross am...	Quantity	Or...	Material	T... Text	Del...
1	4500013181	10	10,00	0,00	1	PC	00000000..VN	Material A	

The resulting document in PROCESS DIRECTOR. The Message logs show its IDoc origins.

Appendix A: Tables

The three main configuration tables are:

Table	Content	Description
/COCKPIT/CEDIP	Profiles	Connects the partner profile data to the process code used to process incoming IDocs. The table also contains other configuration data.
/COCKPIT/CEDIS	Structures	Contains the mapping between the segments and PROCESS DIRECTOR document structures (HEADER, ITEMDATA, and so on), for each profile.
/COCKPIT/CEDIF	Fields	Contains the mapping between the IDoc and PROCESS DIRECTOR fields.

Appendix B: User Exits

Overview

EDI COCKPIT comes with several User Exit interfaces that you can use to customize the application to suit business requirements.

Function modules called from the User Exit interfaces can be found in the /COCKPIT/EDI_EXIT_SAMPLE function group.

These function modules can be copied and subsequently modified in order to guarantee a stable interface.

Interface structure

The interface structures and the tables in the local interface of the User Exit function templates start with I, E, and C.

Prefix	Description
E	Data is exported only. Changes are possible.
I	Data is imported only. Changes are not incorporated.
C	Data can be changed. Changes are possible.

List of User Exits

User Exit	Name
600	Change of IDoc data before processing
601	Check SAP document of an IDoc
602	Retrieve SAP document number for a posted IDoc
603	Determine fiscal year for a posted IDoc
604	Determine company code for a posted IDoc
605	Check if IDoc is an FI or MM document
606	Changes before mapping of IDoc to a PROCESS DIRECTOR document
607	Changes before transferring IDoc to PROCESS DIRECTOR

User Exit	Name
608	Changes before transferring IDoc to PROCESS DIRECTOR
609	Change of IDoc data after processing
610	Determine posting function of an IDoc
611	XML import, changes in files
612	XML import, changes in XML before transfer to IDoc
613	XML import, retrieve invoice GUID from IDoc

User Exit 600 – Change of IDoc data before processing

This User Exit is called when importing IDocs into EDI COCKPIT, but before EDI COCKPIT performs any processing. You can use it to change the document data.

Template
<pre> FUNCTION /COCKPIT/USEX_CHANGE_IDOC. ** ----- ** !!! Local interface: ** ** TABLES ** ** T_TAB_MESSAGES STRUCTURE BAPIRET2 ** ** CHANGING ** ** REFERENCE(WORKFLOW_RESULT) LIKE BDWFAP_PAR-RESULT OPTIONAL ** ** EXCEPTIONS ** ** ERROR_OCCURED ** ** ERROR_MESSAGE ** ** OTHERS ** ----- ** ** @US@aa => Signature of Creator, e.g. HH for Harry Hirsch ** @CU@aaa... => Customer Name ** @K1@ ... * @K9@ => Keywords for Implemented Functionality </pre>

[illegible]

User Exit 601 – Check SAP document of an IDoc

You can check if the posting with another user-defined function module succeeded. If yes, the User Exit returns the following SAP document data: SAP document number, fiscal year, FI/MM flag and company code. You can use this User Exit to retrieve this information in another way to the standard method.

```

Template

FUNCTION /COCKPIT/USEX_AFTER_POST.

** -----
** "Lokale Schnittstelle:
**
**  TABLES
**
**    T_TAB_MESSAGES STRUCTURE  BAPIRET2
**
**  CHANGING
**
**    VALUE(CC_DOCUMENT_NUMBER) TYPE  RE_BELNR
**
**    VALUE(CN_FISCAL_YEAR) TYPE  GJAHR
**
**    VALUE(CC_FI_MM_FLG) TYPE  /COCKPIT/DFI_MM_FLG
**
**    VALUE(CC_COMPANY_CODE) TYPE  BUKRS
**
**  EXCEPTIONS
**
**    ERROR_OCCURED
**
**    ERROR_MESSAGE
**
**  OTHERS

```

[illegible]

User Exit 602 – Retrieve SAP document number for a posted IDoc

This User Exit allows you to retrieve the SAP documents number for a posted IDoc in way different to the standard implementation.

```

Template
FUNCTION /COCKPIT/USEX_PROCESS_STATUS.

**-----
**" Lokale Schnittstelle:
**
**  TABLES
**
**    T_TAB_MESSAGES STRUCTURE  BAPIRET2
**
**  CHANGING
**
**    VALUE(CC_DOCUMENT_NUMBER) TYPE  RE_BELNR
**
**  EXCEPTIONS
**
**    ERROR_OCCURED

```

[illegible]

User Exit 603 – Determine fiscal year for a posted IDoc

You can use this User Exit to retrieve the fiscal year for a posted IDoc in different way to the standard implementation.

Template
<pre>FUNCTION /COCKPIT/USEX_RETR_FISC_YEAR. *''----- *'' "Lokale Schnittstelle: *'' IMPORTING *'' REFERENCE(IS_SAP_DATA_CUST) LIKE /COCKPIT/CEDIW STRUCTURE *'' /COCKPIT/CEDIW</pre>

[illegible]

User Exit 604 – Determine company code for a posted IDoc

You can use this User Exit to retrieve the company code for a posted IDoc in different way to the standard implementation.

Template

[illegible]

Template
ENDFUNCTION.

User Exit 605 – Check if IDoc is an FI or MM document

This User Exit determines if an incoming IDoc is an FI or MM document based on the document's data, and in a way different to the standard determination method.

Template
<pre> FUNCTION /COCKPIT/USEX_CHECK_FI_MM. *'' ----- *''** Local interface: *'' IMPORTING *'' REFERENCE(IS_SAP_DATA_CUST) LIKE /COCKPIT/CEDIW STRUCTURE *'' /COCKPIT/CEDIW *'' TABLES *'' T_TAB_MESSAGES STRUCTURE BAPIRET2 *'' CHANGING *'' REFERENCE(CC_FI_MM_FLG) TYPE /COCKPIT/DFI_MM_FLG *'' EXCEPTIONS *'' ERROR_OCCURED *'' ERROR_MESSAGE *'' OTHERS *'' ----- * @US@aa => Signiture of Creator, e.g. HH for Harry Hirsch * @CU@aaa... => Customer Name * @K1@ ... * @K9@ => Keywords for Implemented Functionality * Dummy entry for user exit cross reference check IF con_exit_edi_check_fi_mm IS INITIAL. ENDIF. * User exit 605 </pre>

[illegible]

User Exit 606 – Changes before mapping of IDoc to a PROCESS DIRECTOR document

This User Exit is called when importing IDocs into EDI COCKPIT, but before EDI COCKPIT maps IDoc fields to PROCESS DIRECTOR fields. You can use it to change the document data.

Template
<pre> FUNCTION /COCKPIT/USEX_BEFORE_MAP. **----- **"Lokale Schnittstelle: ** TABLES ** T_TAB_MESSAGES STRUCTURE BAPIRET2 ** EXCEPTIONS ** ERROR_OCCURED ** ERROR_MESSAGE ** OTHERS **----- **@US@aa => Signiture of Creator, e.g. HH for Harry Hirsch **@CU@aaa... => Customer Name **@K1@ ... *@K9@ => Keywords for Implemented Functionality * Dummy entry for user exit cross reference check IF con_exit_edi_before_map IS INITIAL. ENDIF. </pre>

[illegible]

User Exit 607 – Changes before transferring IDoc to PROCESS DIRECTOR

This User Exit is called when transferring IDocs from EDI COCKPIT to PROCESS DIRECTOR. Therefore, all IDoc data has already been mapped to PROCESS DIRECTOR fields. You can use it to change the document data.

```

Template
FUNCTION /COCKPIT/USEX_BEFORE_RFC.
** -----
***"Lokale Schnittstelle:
**  TABLES
**    T_TAB_ITEM STRUCTURE  /COCKPIT/SITEM_EXT
**    T_TAB_TAX STRUCTURE  /COCKPIT/STAX_EXT
**    T_TAB_ACCOUNT STRUCTURE  /COCKPIT/SACCT_EXT
**    T_TAB_CONTENT TYPE  /COCKPIT/EDI_TBL1024
**    T_TAB_MESSAGES STRUCTURE  BAPIRET2
**  CHANGING
**    VALUE(C_STR_HEADER) LIKE  /COCKPIT/SHDR_EXT STRUCTURE
**      /COCKPIT/SHDR_EXT
**    VALUE(C_CONTENT_LENGTH) LIKE  SAPB-LENGTH
**    VALUE(C_STR_CHECK) LIKE  /COCKPIT/SCHECKDATA STRUCTURE
**      /COCKPIT/SCHECKDATA
**  EXCEPTIONS

```

[illegible]

User Exit 608 – Changes before transferring IDoc to PROCESS DIRECTOR

This User Exit is called when an IDoc is not posted in SAP (using the standard SAP EDI interface) due to some error. Using this User Exit, you can call an alternative function module (that is, not /COCKPIT/RFC_DATA_SUBMIT) to transfer the document to PROCESS DIRECTOR. When using this User Exit, you must ensure that /COCKPIT/RFC_DATA_SUBMIT is not called.

Template
<pre>FUNCTION /COCKPIT/USEX_RFC. *"----- **"*Local interface: *" EXPORTING</pre>

Template
<pre> ** REFERENCE(EB_NO_STANDARD) LIKE BOOLE-BOOLE ** TABLES ** T_TAB_ITEM STRUCTURE /COCKPIT/SITEM_EXT ** T_TAB_TAX STRUCTURE /COCKPIT/STAX_EXT ** T_TAB_ACCOUNT STRUCTURE /COCKPIT/SACCT_EXT ** T_TAB_CONTENT TYPE /COCKPIT/EDI_TBL1024 ** T_TAB_MESSAGES STRUCTURE BAPIRET2 ** CHANGING ** VALUE(CN_CONTENT_LENGTH) TYPE SAPB-LENGTH ** VALUE(CS_STR_HEADER) LIKE /COCKPIT/SHDR_EXT STRUCTURE ** /COCKPIT/SHDR_EXT ** VALUE(CS_STR_CHECK) LIKE /COCKPIT/SCHECKDATA STRUCTURE ** /COCKPIT/SCHECKDATA ** VALUE(CC_GUID) LIKE /COCKPIT/SIF-INVOICE_GUID ** VALUE(CN_DOCNO) LIKE /COCKPIT/THDR-DOCNO ** EXCEPTIONS ** ERROR_OCCURED ** ERROR_MESSAGE ** OTHERS ** ----- ** *@US@aa => Signiture of Creator, e.g. HH for Harry Hirsch ** *@CU@aaa... => Customer Name ** *@K1@ ... *@K9@ => Keywords for Implemented Functionality * Dummy entry for user exit cross reference check IF con_exit_edi_rfc IS INITIAL. ENDIF. * User exit 608 </pre>

[illegible]

User Exit 609 – Change of IDoc data after processing

This User Exit is called after processing by a custom function module. You can use it to change the document data. The interface is the same as [User Exit 600](#).

```

Template

FUNCTION /COCKPIT/USEX_CHANGE_IDOC2.

**-----
***"Lokale Schnittstelle:
**  TABLES
**    T_TAB_MESSAGES STRUCTURE  BAPIRET2
**  EXCEPTIONS
**    ERROR_OCCURED
**    ERROR_MESSAGE
**    CANCEL
**    OTHERS
**-----

* @US@aa      => Signiture of Creator, e.g. HH for Harry Hirsch
* @CU@aaa...  => Customer Name
* @K1@ ... * @K9@ => Keywords for Implemented Functionality

* Dummy entry for user exit cross reference check
  IF con_exit_edi_change_idoc2 IS INITIAL. ENDIF.

* User exit 609

```

[illegible]

User Exit 610 – Determine posting function of an IDoc

This User Exit retrieves the name of the custom function module that is used to post the IDoc (the function module can vary depending on the document data).

```

Template

FUNCTION /cockpit/usex_get_fmodule.

**-----
**"Local interface:
** EXPORTING
**   VALUE(EC_FUNCNAME) LIKE  TFDIR-FUNCNAME
** TABLES
**   T_TAB_MESSAGES STRUCTURE  BAPIRET2
** EXCEPTIONS
**   ERROR_OCCURED
**   ERROR_MESSAGE
**   OTHERS
**-----

* @US@aa      => Signiture of Creator, e.g. HH for Harry Hirsch
* @CU@aaa...  => Customer Name
* @K1@ ... * @K9@ => Keywords for Implemented Functionality

* Dummy entry for user exit cross reference check

IF con_exit_edi_get_fmodule IS INITIAL. ENDIF.

```

[illegible]

User Exit 611 – XML import, changes in files

You can use this User Exit to change the structure of the imported XML documents.

Template
<pre> FUNCTION /COCKPIT/USEX_XML_FILES_PROC. **----- ***"Local interface: ** TABLES ** ET_FILES STRUCTURE /COCKPIT/SEDI_FILE ** ET_BINARY STRUCTURE TBL1024 ** ET_TEXT STRUCTURE DOCS ** ET_MESSAGES STRUCTURE BAPIRET2 **----- * @US@aa => Signature of Creator, e.g. HH for Harry Hirsch * @CU@aaa... => Customer Name * @K1@ ... * @K9@ => Keywords for Implemented Functionality * Dummy entry for user exit cross reference check IF con_exit_edi_xml_files_process IS INITIAL. ENDIF.</pre>

Template
<pre>* User exit 611 *>>> START OF IMPLEMENTATION >>>* *<<< END OF IMPLEMENTATION <<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<*

ENDFUNCTION.</pre>

User Exit 612 – XML import, changes in XML before transfer to IDoc

This User Exit can be used to modify data in the XML before it is converted to an IDoc.

Template
<pre> FUNCTION /COCKPIT/USEX_XML_CHANGE. **----- **"Local interface: ** IMPORTING ** REFERENCE(IC_INVOICE_GUID) LIKE /COCKPIT/SIF-INVOICE_GUID ** OPTIONAL ** REFERENCE(IC_SENDER_ID) LIKE /COCKPIT/CEDIATT-SENDER_ID ** OPTIONAL ** REFERENCE(IC_RECEIVER_ID) LIKE /COCKPIT/CEDIATT-RECEIVER_ID ** OPTIONAL ** TABLES ** ET_MESSAGES STRUCTURE BAPIRET2 OPTIONAL ** CHANGING ** REFERENCE(CC_XML_STRING) TYPE STRING **----- **@US@aa => Signiture of Creator, e.g. HH for Harry Hirsch </pre>

[illegible]

User Exit 613 – XML import, retrieve invoice GUID from IDoc

Use this User Exit to retrieve the GUID of the invoice contained in the IDoc.

```

Template

FUNCTION /COCKPIT/USEX_EDI_EXT_GUID.

*"-----

*""Local interface:

*" EXPORTING

*"    REFERENCE(EC_INVOICE_GUID) LIKE  /COCKPIT/SIF-INVOICE_GUID

*"    REFERENCE(EB_NO_STANDARD) LIKE  BOOLE-BOOLE

*" TABLES

*"    IT_IDOC_DATA STRUCTURE  EDIDD

*"    ET_MESSAGES STRUCTURE  BAPIRET2 OPTIONAL

*"-----

* @US@aa      => Signiture of Creator, e.g. HH for Harry Hirsch

```

Template

*@CU@aaa... => Customer Name

*@K1@ ... *@K9@ => Keywords for Implemented Functionality

* Dummy entry for user exit cross reference check

```
IF con_exit_edi_ext_guid IS INITIAL. ENDIF.
```

* User exit 613

[illegible][illegible]

ENDFUNCTION.

Appendix C: Transactions

Listed below are some popular transaction codes for processing IDocs in SAP.

Prefix	Description
WE02	View IDocs
WE19	Test tool for IDocs
WE20	Maintain partner profiles
WE21	Maintain system ports
WE30	Create IDoc types
WE31	Create segments
WE42	Maintain process codes
WE57	Assign function modules to messages and IDoc types
WE81	Create message type
WE82	Assign IDoc types to message types
BD57	Characteristics of inbound function modules

Glossary

A

ALE: Application Link Enabling.

E

EDI: Electronic Data Interchange.

E

IDoc: Intermediate Document. IDocs are structured ASCII files (or a virtual equivalent). It is a file format used by SAP to exchange data with foreign systems. An IDoc consists of various records types: control record (sender, recipient, type, etc.), data record (segment data) and status record (statuses). An IDoc is a kind of asynchronous document related to its direction: inbound or outbound. The IDoc type is the name of the data structure used to describe the file format of a specific IDoc.

INVOIC02: The IDoc basis type for an invoice/billing document.

M

Message type: Data exchanged by an IDoc and EDI is known as a message. Messages of the same kind belong to the same message type. The message type defines the semantic context of an IDoc. The message type informs the receiver about how the message must be interpreted.

P

Partner profile: Different sending and receiving partners may communicate using different message types. While the information remains the same, different receivers may require different file formats. Partner profiles contain the names of the partners that are allowed to exchange IDocs with your system. They also contain a list of the message types the partner may send, permitted formats and communication protocols.

Port definition: IDoc data can be sent and received through a multitude of different media. In order to decouple the media from the application using it, the media is accessed via ports. A port is a logical name for an input/output device. A program talks to a port which is presented to it with a common standard interface. The port handles the translation between the standard interface format and the device dependent format.

Process code: The function that processes an IDoc. Different IDocs can be processed using different process codes. In most cases a process code points a function module in the R/3 system, but you can also use custom functions, such as `/COCKPIT/EDI_IDOC_TRANSFORM` for EDI COCKPIT.

S

Segment: A structure of an IDoc's data.

Status: Every IDoc has log messages written to its status records, which contain information about the operations performed on the IDoc (for example, created, passed to another system, etc.) It is possible to add specific messages. Message types 01-49 are the message numbers for outbound processes; 50-75 for inbound processes.