

Kofax EDI Cockpit

Configuration Guide

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The logo for KOFAX, consisting of the word "KOFAX" in a bold, blue, sans-serif font.

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Table of Contents

Preface	5
About this guide.....	5
Chapter 1: Technical overview	6
Partner profiles.....	7
Ports.....	7
Process codes.....	7
Messages.....	7
Document types.....	8
IDocs.....	8
Collective invoices.....	9
e-Invoices.....	9
Chapter 2: Installation	10
Chapter 3: Configure SAP	11
Set the input type.....	11
Configure message and IDoc type.....	11
Create a process code.....	13
Modify partner profiles.....	15
Chapter 4: Create test IDocs	17
Create IDocs.....	17
View IDocs in SAP.....	18
Send IDocs to Process Director.....	20
View IDocs in Process Director.....	22
Chapter 5: EDI Cockpit IMG	24
Basic settings.....	24
Define data transfer from SAP IDoc interface.....	25
Define profiles.....	25
Define structures.....	26
Define fields.....	26
Define incoming data.....	27
Fixed mapping of IDoc field values to EDI Cockpit field values.....	28
Settings to receive electronic invoices.....	28
Define sender and receiver profiles.....	29
Define number and type of incoming files.....	29
Set assignment rules for collective invoices.....	30

Activate user exits.....	30
Create test IDoc.....	31
Data definition to generate a test IDoc.....	31
Appendix A: Tables.....	32
Appendix B: User Exits.....	33
Interface structure.....	33
List of User Exits.....	33
User Exit 600 – Change of IDoc data before processing.....	34
User Exit 601 – Check SAP document of an IDoc.....	35
User Exit 602 – Retrieve SAP document number for a posted IDoc.....	36
User Exit 603 – Determine fiscal year for a posted IDoc.....	36
User Exit 604 – Determine company code for a posted IDoc.....	37
User Exit 605 – Check if IDoc is an FI or MM document.....	38
User Exit 606 – Changes before mapping of IDoc into a Process Director document.....	39
User Exit 607 – Changes before transfer of the IDoc to Process Director.....	40
User Exit 608 – Transfer of the IDoc to Process Director.....	41
User Exit 609 – Change of IDoc data after processing.....	43
User Exit 610 – Determine posting function of an IDoc.....	44
User Exit 611 – eInvoice Connector, adjust the received data.....	45
User Exit 612 – eInvoice Connector, adjust XML before SAP IDoc interface.....	45
User Exit 613 – eInvoice Connector, determine external GUID from the IDoc.....	46
User Exit 614 – Determine mapping profile.....	47
User Exit 615 – Custom specific attachment handling for IDOCs.....	48
Appendix C: Transactions.....	50

Preface

Kofax EDI Cockpit™ is a component of Kofax Process Director Accounts Payable™, which acts as an interface for incoming IDocs.

IDocs can be converted to regular Kofax Process Director documents that can then be edited, posted, and sent to workflows in Kofax 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 to regular Kofax Process Director documents that can be processed by Accounts Payable staff in the usual manner.

About this guide

This guide explains how to configure EDI Cockpit to enable the receipt and processing of IDocs in your Kofax Process Director™ installation.

This document contains the following chapters:

- [Technical overview](#)
Provides a technical overview of how EDI Cockpit works.
- [Installation](#)
Contains some notes on the installation.
- [Configure SAP](#)
To enable EDI Cockpit, you must configure your SAP system accordingly.
- [Create test IDocs](#)
This chapter explains how to create test IDocs in EDI Cockpit to test your configuration, and you can follow a document from its inception as an IDoc to its creation in Kofax Process Director.
- [EDI Cockpit IMG](#)
A reference that describes all the settings in the EDI Cockpit IMG.
- [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.

Chapter 1

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 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 Kofax 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, which is the IDoc basis type for an invoice/billing document). 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) to add the correct document data into Kofax 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 Kofax 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 Kofax 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 Kofax Process Director, using the regular `/COCKPIT/RFC_DATA_SUBMIT` function. For documents already posted, a posted Kofax 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 Kofax Process Director. EDI Cockpit calls only the original function module.

All [messages](#) (warnings, errors and successes), are added to the Kofax Process Director document and the 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.

Partner profiles

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.

Ports

IDoc data can be sent and received through a multitude of different media. To decouple the media from the application that uses 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 codes

A process code is the function that processes an IDoc. Different IDocs can be processed using different process codes.

In most cases, a process code points to a function module in the R/3 system, but you can also use custom functions, such as `/COCKPIT/EDI_IDOC_TRANSFORM` for EDI Cockpit.

Messages

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.

Every IDoc has log messages written to its status records, which contain information about the operations performed on the IDoc (for example, created, or passed to another system.)

It is possible to add specific messages. Message types 01-49 are the message numbers for outbound processes; 50-75 are the message numbers for inbound processes.

Document types

EDI Cockpit processes three types of documents:

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

IDocs

IDocs (Intermediate Documents) are a file format used by SAP to exchange data between systems belonging to different partners.

IDocs are structured ASCII files (or a virtual equivalent). An IDoc consists of various records types: control record (sender, recipient, type, and more), 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.

IDocs can be processed in EDI Cockpit in three different ways:

- All IDocs are processed by EDI Cockpit and converted to Kofax 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 Kofax Process Director.
- All IDocs are processed by EDI Cockpit and converted to Kofax Process Director documents. Documents without errors are posted by the standard SAP interface, and are subsequently converted to posted Kofax Process Director documents.

Collective invoices

A collective invoice is the electronic version of a covering document that includes one or more Kofax Process Director documents. Collective invoices 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. 1

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
 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 2	
✗	100,00	0,00	Line 1	0		

1. The status indicates it is a collective invoice.
2. A collective invoice contains the following elements.
 - The list of invoices contained in the collective invoice, displaying the document number and status.
 - 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 in Kofax Process Director.
 - 11 – Uncompleted. One or more listed invoices are not in Kofax 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.

Chapter 2

Installation

EDI Cockpit is provided as part of the Kofax Process Director transport. It has a separate license that you must activate. For details on installation and licenses, see the following Kofax guides:

- *Kofax Process Director Import and Upgrade Guide*
- *Kofax Process Director Accounts Payable Configuration Guide*

Chapter 3

Configure SAP

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.

To enable EDI Cockpit, complete the following steps.

1. [Set the input type](#)
2. [Configure message and IDoc type](#)
3. [Create a process code](#)
4. [Modify partner profiles](#)

Set the input type

To set the input type, complete the following steps.

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

Note If the check boxes **Posting as IDoc** and **Transfer posted IDoc** are both checked in `/COCKPIT/EI1`, select the input type **2 – Individual input with IDoc lock in CALL TRANSACTION** instead.

Configure 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 the `WE57` transaction.
2. Go to the first instance of the `IDOC_INPUT_INVOIC_FI` function module, for example, for the `BKPF` business object.

- Use 2 – Individual input with IDoc lock in CALL TRANSACTION if 1 – Individual input causes documents to lock.

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





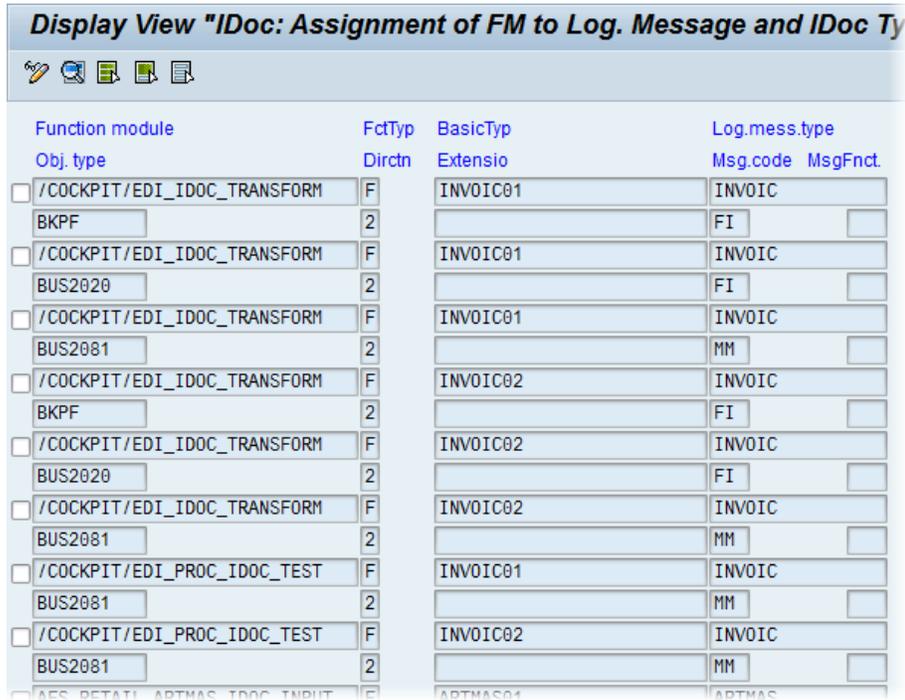

Processing by	
Module	IDOC_INPUT_INVOIC_FI
Type	F
IDoc type	
Basic type	INVOIC01
Extension	
Message	
Message type	INVOIC Invoice / billing document
Message code	FI
Msg.function	
Object	
Object type	BKPF Accounting document
Direction	2

- Create a new entry for the /COCKPIT/EDI_IDOC_TRANSFORM function module and copy the values from IDOC_INPUT_INVOIC_FI to it.

- 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 Ty



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"/>
<input type="checkbox"/> /COCKPIT/EDI_IDOC_TRANSFORM	F	INVOIC01	INVOIC	
BUS2020	2		FI	<input type="checkbox"/>
<input type="checkbox"/> /COCKPIT/EDI_IDOC_TRANSFORM	F	INVOIC01	INVOIC	
BUS2081	2		MM	<input type="checkbox"/>
<input type="checkbox"/> /COCKPIT/EDI_IDOC_TRANSFORM	F	INVOIC02	INVOIC	
BKPF	2		FI	<input type="checkbox"/>
<input type="checkbox"/> /COCKPIT/EDI_IDOC_TRANSFORM	F	INVOIC02	INVOIC	
BUS2020	2		FI	<input type="checkbox"/>
<input type="checkbox"/> /COCKPIT/EDI_IDOC_TRANSFORM	F	INVOIC02	INVOIC	
BUS2081	2		MM	<input type="checkbox"/>
<input type="checkbox"/> /COCKPIT/EDI_PROC_IDOC_TEST	F	INVOIC01	INVOIC	
BUS2081	2		MM	<input type="checkbox"/>
<input type="checkbox"/> /COCKPIT/EDI_PROC_IDOC_TEST	F	INVOIC02	INVOIC	
BUS2081	2		MM	<input type="checkbox"/>
<input type="checkbox"/> AESS_BETATEL_APTMAS_IDOC_INPUT	F	APTMAS01	APTMAS	

Create 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.

Note Process codes are client-dependent.

- Go to the `WE42` transaction.

- Go to the first instance of the INVL process code. Note the settings.

Change View "Inbound process code": Details

Process code: INVL

Description: INVOIC MM Logistics invoice verification (MM)

Identification: IDOC_INPUT_INVOIC_MRM

Option ALE

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

Processing type

- Processing by task
- Processing by function module
- Processing by process

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

Change View "Inbound process code": Details

Process code: ZEBY_EDI

Description: ReadSoft EDI COCKPIT

Identification: /COCKPIT/EDI_IDOC_TRANSFORM

Option ALE

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

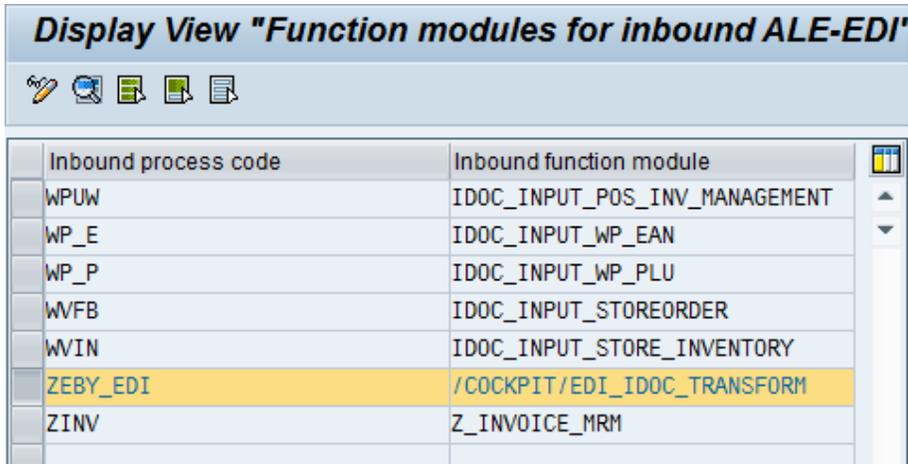
Processing type

- Processing by task
- Processing by function module
- Processing by process

- Save your entry.
- Go to the SM30 transaction and display the TBD52 table.
- Copy the entry for the INVL process code to a new entry: ZEBY_EDI.
- Save, and then exit the view.

- Display the same table again, and change **Inbound 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
WFB	IDOC_INPUT_STOREORDER
WIN	IDOC_INPUT_STORE_INVENTORY
ZEBY_EDI	/COCKPIT/EDI_IDOC_TRANSFORM
ZINV	Z_INVOICE_MRM

Modify partner profiles

For all partner profiles that are to process IDocs using EDI Cockpit, you must change the process type for inbound parameters for the invoice message type.

Note 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).

- Go to the `WE20` transaction.
- Select a partner profile that is to process IDocs using EDI Cockpit.
- In the **Inbound parameters** table, open the first entry containing the **INVOIC** as the **Message type**.
- On the **Inbound options** tab, change the **Process code** to the custom one you created. See [Create a process code](#).

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

- Repeat steps 3. and 4. for all other **INVOICE** message type entries.

- 6. Repeat steps 2-5 for all partner profiles that are to process IDocs using EDI Cockpit. You do not need to change the other parameters in the partner profiles.

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

Partner profiles: Inbound parameters



Partn.number IDES AG
Partn.type Vendor
Partn.funct.

 Message type Invoice / billing document
Message code
Message function Test

Inbound options | Post processing: permitted agent | Telephony

Process code INVOIC FI Invoice receipt (Fin...
 Syntax check

Processing by function module

- Trigger by background program
- Trigger immediately

Chapter 4

Create test IDocs

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 of the INVOIC02 basic type.

- [Create IDocs](#)
- [View IDocs in SAP](#)
- [Send IDocs to Process Director](#)

Create IDocs

To create test IDocs, complete the following steps.

1. Go to the [/COCKPIT/EI4](#) transaction and specify the data for your documents.
2. Go to the [/COCKPIT/EI5](#) transaction and generate the documents.

View IDocs in SAP

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

1. In the WE02 transaction, enter the selection criteria, as required.

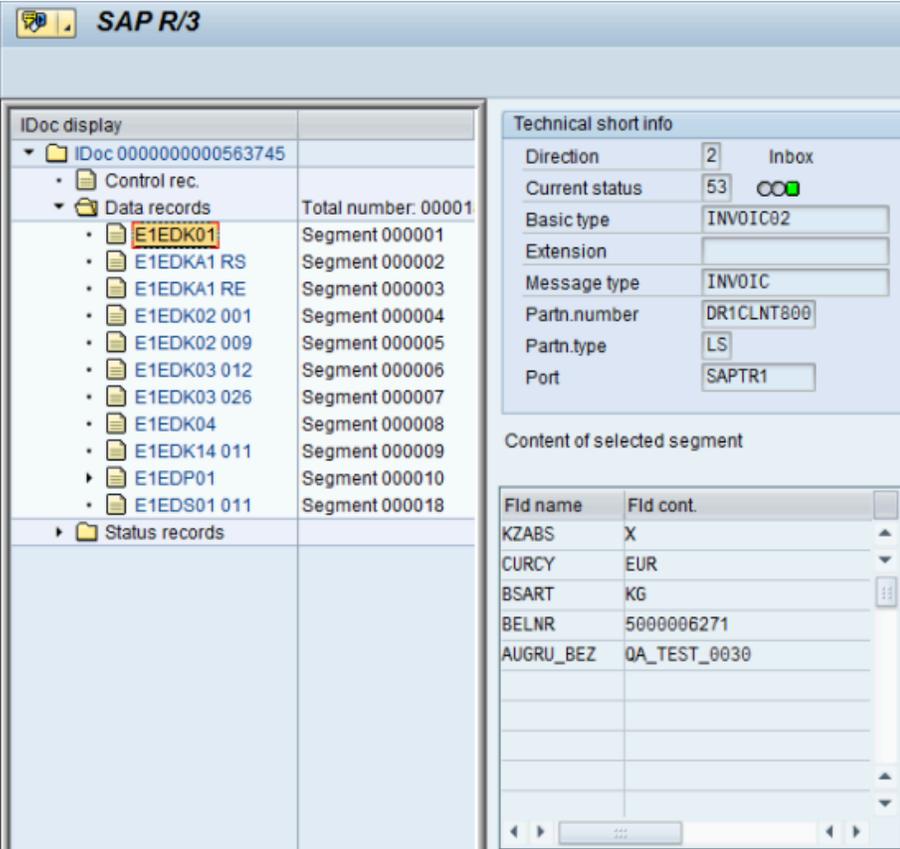
The screenshot shows the 'IDoc list' selection screen in SAP. It features a header bar with the title 'IDoc list' and three tabs: 'Default sel.', 'Addit.selctn', and 'EDI sel.'. Below the tabs, there are several selection criteria fields arranged in pairs, each with a 'to' field and a yellow arrow button. The 'Time created' field is highlighted with a red box and contains '00:00:00'. Other fields include 'Date created' (11.08.2011), 'Time of last change' (00:00:00), 'Date of last change', 'Direction', 'IDoc number', 'Current status', 'Basic type', 'Extension', 'Logical message', 'Port of sender', 'Partner type of sender', 'Partner number of sender', 'Port of recipient', 'Partner type of recipient', and 'Partner number of recipient'.

The **Selected IDocs** screen shows all IDocs that match your selection.

The screenshot shows the 'Selected IDocs' screen in SAP R/3. The screen has a header bar with the title 'SAP R/3' and a toolbar. On the left, there is a tree view showing the hierarchy: 'IDocs' > 'Selected IDocs' > 'Outbound IDocs' > 'Inbound IDocs' > 'INVOIC'. The main area displays a table of IDocs with the following columns: IDoc number, Seg..., Sta..., Sta..., Partner, BasicType, and Date created. The table contains five rows of data, all with the same IDoc number (00000000005637) and date (15.07.2011).

IDoc number	Seg...	Sta...	Sta...	Partner	BasicType	Date created	T
00000000005637...	18	53	CC	LS/ /DR1CLNT...	INVOIC02	15.07.2011	1
00000000005637...	18	53	CC	LS/ /DR1CLNT...	INVOIC02	15.07.2011	1
00000000005637...	18	53	CC	LS/ /DR1CLNT...	INVOIC02	15.07.2011	1
00000000005637...	18	53	CC	LS/ /DR1CLNT...	INVOIC02	15.07.2011	1
00000000005637...	18	53	CC	LS/ /DR1CLNT...	INVOIC02	15.07.2011	1

- 2. To view the details of a specific IDoc, click **IDoc** . The **IDoc Display** screen opens.



The screenshot shows the SAP R/3 IDoc Display interface. On the left, a tree view shows the IDoc structure for IDoc 0000000000563745, including Control records and Data records (Segments 000001 to 000018). The segment E1EDK01 is selected. On the right, the 'Technical short info' panel displays details such as Direction (2), Current status (53), Basic type (INV0IC02), Message type (INV0IC), Partn.number (DR1CLNT800), Partn.type (LS), and Port (SAPTR1). Below this, the 'Content of selected segment' panel shows a table of field names and their contents.

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

Send IDocs to Process Director

After you have created your IDocs, you can send them to Kofax Process Director and test whether EDI Cockpit handles them correctly.

1. Go to the WE19 transaction and enter the IDoc number you generated in /COCKPIT/EI5.

Test tool for IDoc processing

Template for test

- Existing IDoc
- BasicType
- withEnhancement
- Via message type
- File as template
- w/o template

A preview of the IDoc is displayed.

Test tool for IDoc processing

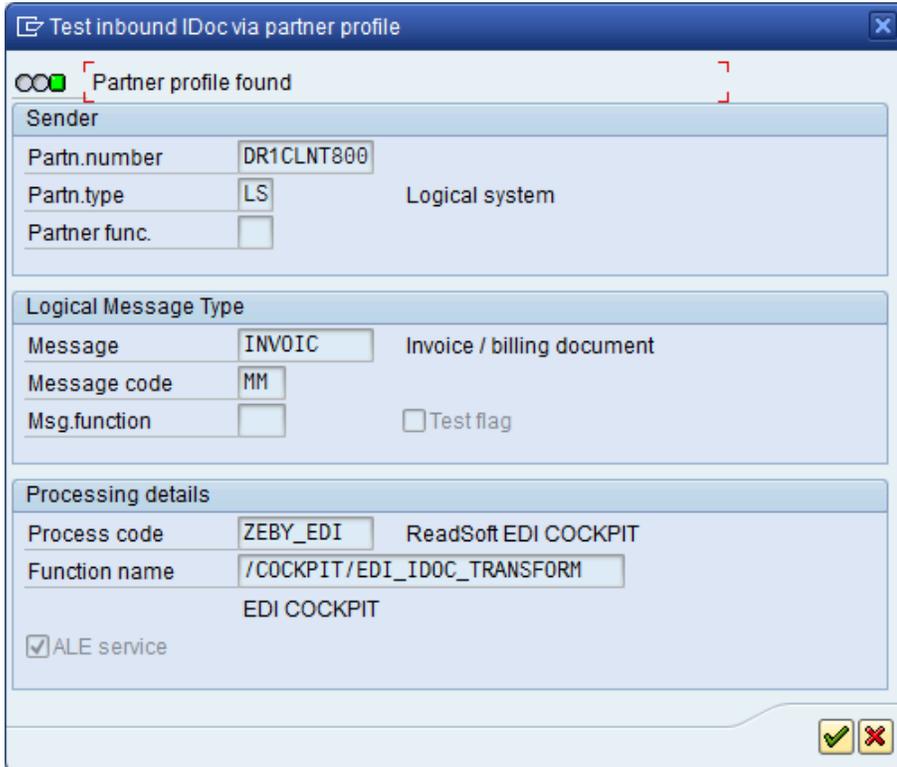
Standard inbound | Inbound function module | Inbound file | Standard outbound processing

EDIDC	80000000000056374546C 53	2SAPTR1	LI0000007777
E1EDK01		XEUR	
E1EDKA1		RS 2000	
E1EDKA1		RE .EBYDOS AG	
E1EDK02		001	
E1EDK02		0094432234	
E1EDK03		01220040325	
E1EDK03		02620040630	
E1EDK04		16.00	1.60
E1EDK14		0111000	
E1EDP01		10	1 PC
E1EDP02		0014500013181	10
E1EDP19		00168	
E1EDP19		002TEST 1	
E1EDP26		00310	
E1EDP26		0051	
E1EDP26			
E1EDP04			
E1EDS01		01111.60	

- 2. In the IDoc preview window, click **Standard inbound**.

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

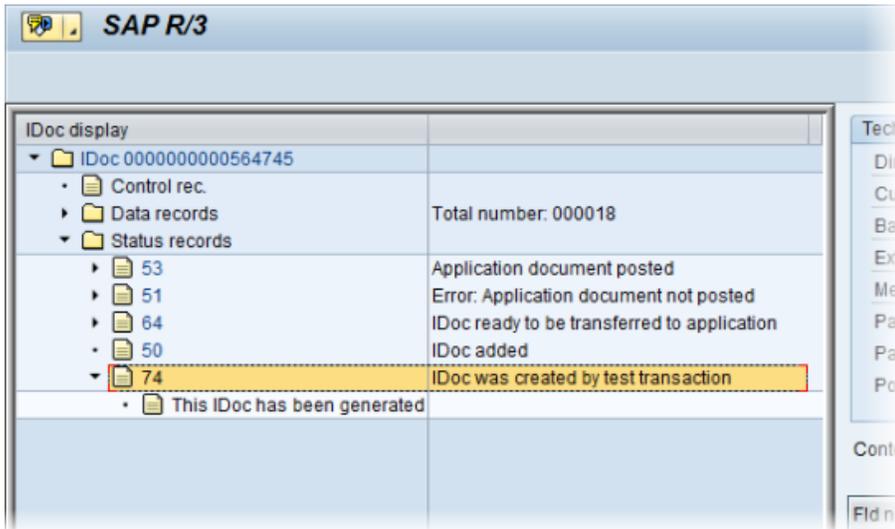
A partner profile is found. Note that this document will be sent to EDI Cockpit.



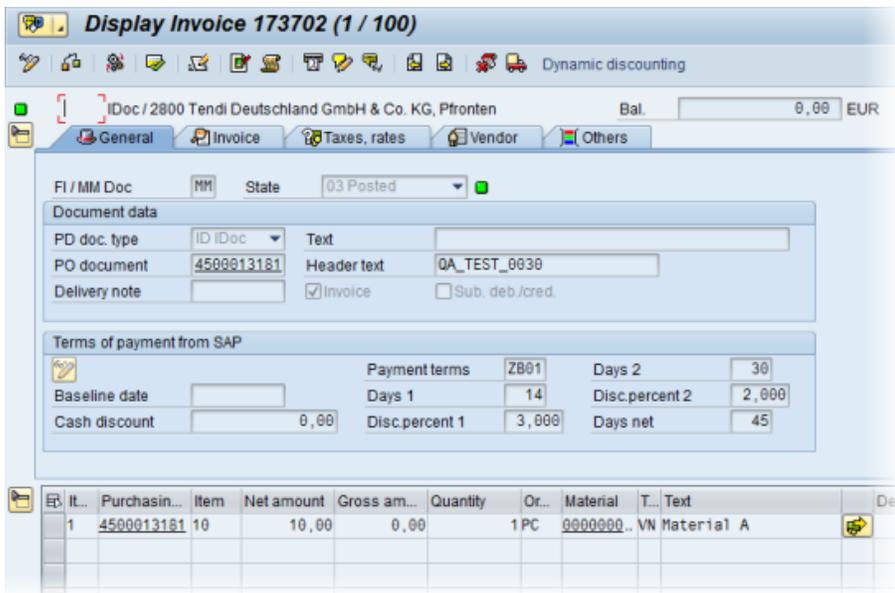
Confirmation that the IDoc was successfully sent.



The status of the IDoc shows that it was sent.



The resulting document in Kofax Process Director. The Message logs show its IDoc origins.



View IDocs in Process Director

After an IDoc has been sent to Process Director, you can use the IDoc-Dump button to view it.

1. In the `/COCKPIT/1` transaction, select the required document.
2. In the document detail view, run the `TEKKI` transaction. The **Display Invoice** dialog box contains the IDoc number.



3. Click **IDoc-Dump** to view the IDoc in the **IDoc Display** window.

Note This button is only displayed if you are authorized to run the WE02 transaction.

IDoc Display: 0000000001225377

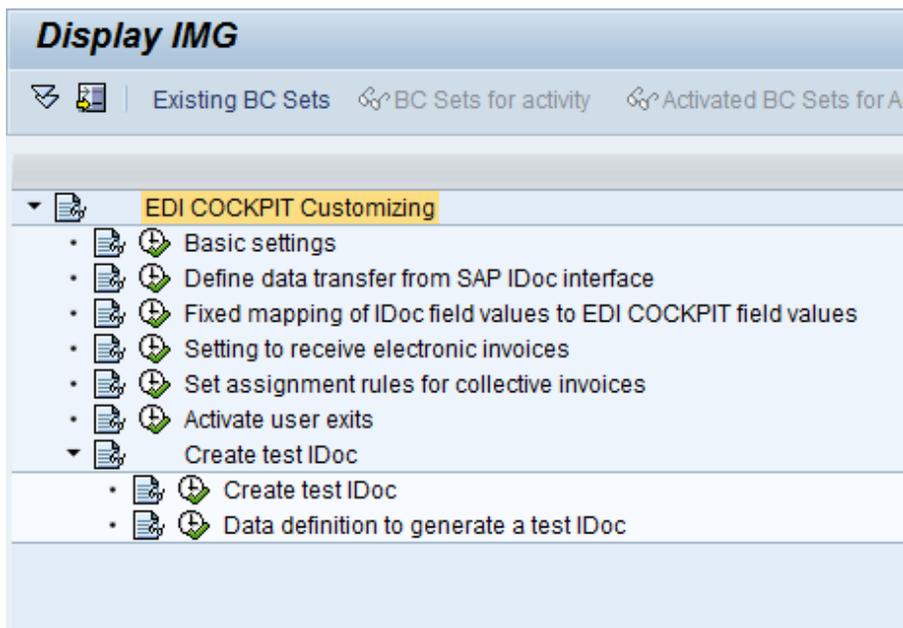
Segments with Errors

IDoc display	Additional information	Short Technical Information																								
<ul style="list-style-type: none">IDoc 0000000001225377<ul style="list-style-type: none">Control Rec.Data recordsStatus records	Total number: 000015	<table border="1"><tr><td>Direction</td><td>2</td><td>Inbox</td></tr><tr><td>Current Status</td><td>53</td><td>OO■</td></tr><tr><td>Basic type</td><td colspan="2">INVOIC02</td></tr><tr><td>Extension</td><td colspan="2"></td></tr><tr><td>Message Type</td><td colspan="2">INVOIC</td></tr><tr><td>Partner No.</td><td colspan="2">R1040</td></tr><tr><td>Partn.Type</td><td colspan="2">LS</td></tr><tr><td>Port</td><td colspan="2">SAPTR1</td></tr></table>	Direction	2	Inbox	Current Status	53	OO■	Basic type	INVOIC02		Extension			Message Type	INVOIC		Partner No.	R1040		Partn.Type	LS		Port	SAPTR1	
Direction	2	Inbox																								
Current Status	53	OO■																								
Basic type	INVOIC02																									
Extension																										
Message Type	INVOIC																									
Partner No.	R1040																									
Partn.Type	LS																									
Port	SAPTR1																									

Chapter 5

EDI Cockpit IMG

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
- Set assignment rules for collective invoices
- Activate user exits
- Create test IDoc
- Data definition to generate a 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, Kofax 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 following fields define the partner profile to activate EDI Cockpit processing. The profiles you define here must match those in SAP standard (WE20) 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.

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

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

Other fields

In addition to the profile definition fields, the following fields are available.

Setting	Description
Posting as IDoc	Posts documents as standard IDocs, using the Process code.
Process code	The code used to post the IDoc. This code is used to look up 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.

Setting	Description
Generate SAP data	Determines the method of populating data in the resulting Kofax Process Director document for IDocs posted outside of EDI Cockpit. <ul style="list-style-type: none"> • Active: Data is populated from SAP. • Inactive: Data is populated from the IDoc.
PD document type	The Kofax 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 Kofax Process Director and posted documents are created there.
Status non-posted IDoc	The IDoc status for unposted documents. If no value is specified, 53 (posted) is used.
SmartForm MM for PDF SmartForm FI for PDF	EDI Cockpit allows you to create a paper-like PDF file before transferring the document to Kofax Process Director. The PDF file is connected to the Kofax 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 ID	This field is obsolete.
Receiver ID	This field is obsolete.
Ariba CIG IDoc	Select this check box if the data is received from Ariba CIG.

Define structures

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

Setting	Description
Segment name	The segment ID in the IDoc. A segment is a structure of an IDoc's data.
Structure	The type of field in Kofax Process Director.

Define fields

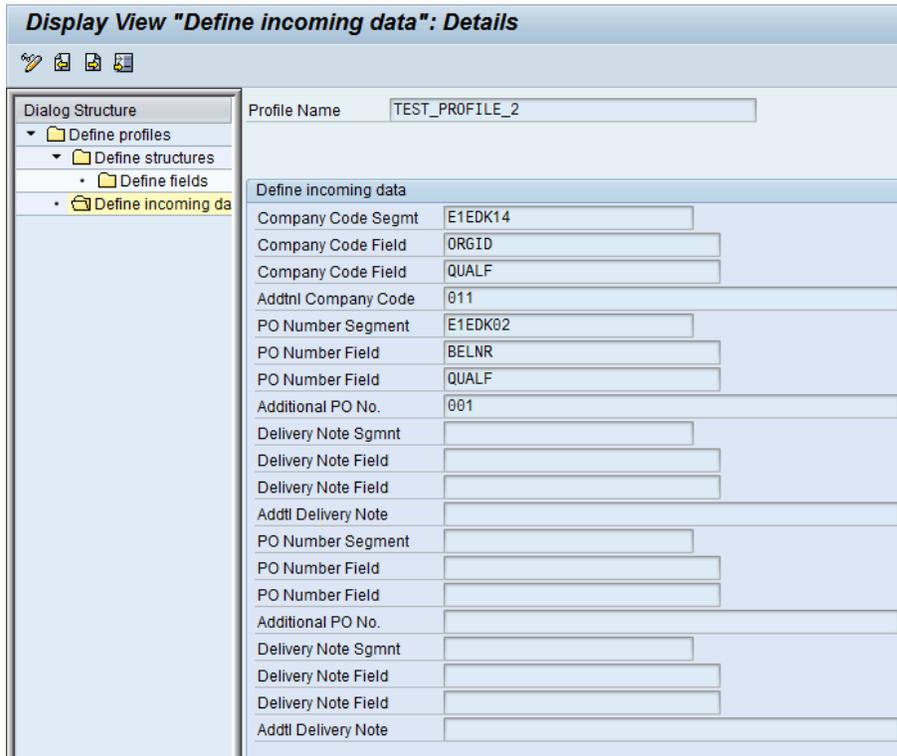
Here, you map the fields between the IDoc and Kofax Process Director document.

Setting	Description
Field name	The ID of the Kofax 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. If you do, you must leave the Field name and Segment name blank.

Setting	Description
Item ID	Use when some fields from segments need 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 the value from that table.
Search type	<ul style="list-style-type: none"> • 1 - Field Search in this Segment The field is searched in the defined segment name. This is useful for getting data for one entry table (for example, Header structure). • 2 - Field search in Dependent Segment 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 the IDoc with this name will result in one entry in many entries table (Items, Accounts and Taxes structures). • 3 - Field Search in Other Segments The field is searched in every main segment in the incoming IDoc. This is useful for getting information for headers.
Add values	<p>Can be used when the data in an IDoc is stored in many of the same IDoc fields (for example, long texts).</p> <ul style="list-style-type: none"> • Selected – The data is concatenated and put into one Kofax Process Director field. • Cleared – Only the first IDoc field is saved in the Kofax Process Director field.

Define 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, the Company code field), allowing you to specify more than IDoc field that may represent it.



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.

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.
IDoc field value	The new value, which is saved in the Kofax Process Director document.

Settings to receive electronic invoices

/COCKPIT/EI7

Use this table to configure the receipt of electronic invoices from document verification companies.

Define sender and receiver profiles

This table defines the profiles of the sender and receiver of the files.

Setting	Description
e-Invoicing sender ID Receiver ID	The ID of the sender and receiver.
File 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 IDoc end	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 the IDoc where a new invoice GUID is written to pass to EDI Cockpit.
Receiver port Receiver partner type Receiver partner function Receiver Sender port Partner type Partner function Partner number Message type Message code Message 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 the 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
e-Invoicing sender ID Receiver ID	The ID of the sender and receiver.
Sort number	The order of the files.
File name pattern	The name of the incoming file. The name does not have to be exact; wildcards such as '*' or '?' can be used.
MimeType	Binary data or text data.

Setting	Description
Document type	The document type used for archiving the attachment.
Document (attachment) type	Indicates whether the attachment is an IDoc, an image, or another kind of file. <ul style="list-style-type: none"> • Other (unknown) • IDoc data – will be converted to IDoc • Primary attachment – will be inserted as the primary image in Kofax Process Director (PDF, TIFF, or other)

Set assignment rules for collective invoices

/COCKPIT/EI6

Kofax Process Director creates documents for collective invoices as well as the invoices the collective invoice contains. To create the Kofax Process Director document for the collective invoice, this mapping table is used.

Important 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

EDI Cockpit comes with several User Exit interfaces that you can use to customize the application to suit business requirements. See [User Exits](#) for more information.

In this table, you activate the User Exits.

Setting	Description
User Exits	The ID of the EDI Cockpit User Exit template/interface. This is necessary for the correct connection of the User Exit to the processes that are to be adjusted.
Company Code	The company code for which the User Exit will be used.
PD document type	The Kofax Process Director document type for which the User Exit will be used.
Function module	The name of the User Exit.
No standard	Indicates whether the User Exit replaces standard functionality in EDI Cockpit.
Deactivate	Check the check box to deactivate the User Exit.
	Shortcut to view and edit the User Exit.

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 (Application Link Enabling) / EDI (Electronic Data Interchange) settings. You can maintain all these setting in the WE20 transaction.
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.
Test Segment Name	The name of the segment for the INVOIC02 basic type.
Field Name	The field ID for the segment.
IDoc Field Value	The value to be added to the created IDoc.

Appendix A

Tables

The following tables are the three main configuration tables.

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 Kofax Process Director document structures (HEADER, ITEMDATA, and so on), for each profile.
/COCKPIT/CEDIF	Fields	Contains the mapping between the IDoc and Kofax Process Director fields.

Appendix B

User Exits

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 are in the `/COCKPIT/EDI_EXIT_SAMPLE` function group.

You can copy these function modules and subsequently modify them 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 600 – Change of IDoc data before processing
- User Exit 601 – Check SAP document of an IDoc
- User Exit 602 – Retrieve SAP document number for a posted IDoc
- User Exit 603 – Determine fiscal year for a posted IDoc
- User Exit 604 – Determine company code for a posted IDoc
- User Exit 605 – Check if IDoc is an FI or MM document
- User Exit 606 – Changes before mapping of IDoc into a Process Director document
- User Exit 607 – Changes before transfer of the IDoc to Process Director
- User Exit 608 – Transfer of the IDoc to Process Director
- User Exit 609 – Change of IDoc data after processing
- User Exit 610 – Determine posting function of an IDoc
- User Exit 611 – eInvoice Connector, adjust the received data
- User Exit 612 – eInvoice Connector, adjust XML before SAP IDoc interface
- User Exit 613 – eInvoice Connector, determine external GUID from the IDoc

RFC_DATA_SUBMIT) to transfer the document to Kofax Process Director. When using this User Exit, you must ensure that /COCKPIT/RFC_DATA_SUBMIT is not called.

Template

```
FUNCTION /COCKPIT/USEX_RFC.
```

```
*"-----
```

```
***"Local interface:
```

```
*" EXPORTING
```

```
*" 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
```


Template

```

**-----
*@US@aa => Signiture of Creator, e.g. HH for Harry Hirsch
*@CU@aaa... => Customer Name
*@K1@ ... *@K9@ => Keywords for Implemented Functionality
* User exit 614
* Dummy entry for user exit cross reference check
IF con_exit_edi_det_profile ISINITIAL.ENDIF.
ENDFUNCTION.

```

User Exit 615 – Custom specific attachment handling for IDOCs

This User Exit is called when transferring IDocs from EDI Cockpit to Kofax Process Director.

You can use this User Exit to create customer-specific file attachments during the transfer process.

For example, if the IDoc contains information about file attachments, as may be the case with IDocs from Ariba CIG, you can add custom logic for archiving of the attachments, such as separating the invoice image from additional attachments.

Template

```

FUNCTION /COCKPIT/USEX_EDI_ARCHIVING.
**-----
**"Local Interface:
** TABLES
** IT_IDOC_CTRL STRUCTURE EDIDC
** IT_IDOC_DATA STRUCTURE EDIDD
** IT_IDOC_STATUS STRUCTURE BDIDOCSTAT
** CT_FILES STRUCTURE /COCKPIT/SEDI_FILE
** CT_BINARY STRUCTURE TBL1024
** CT_MESSAGES STRUCTURE BAPIRET2
** CT_CONTENT STRUCTURE TBL1024
** CHANGING
** REFERENCE(CS_HEADER) LIKE /COCKPIT/SHDR_EXT STRUCTURE

```


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