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About this guide

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

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.
About EDI COCKPIT

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 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.

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 (ZEBS_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**.
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.
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"

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.

**Note**: Process codes are client-dependent.

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

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.
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.

**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).

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.

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
- Setting to receive electronic invoices
- Set assignment rules for collective invoices
- Activate user exits
- Create test IDoc
- Create test IDoc
- Data definition to generate a test IDoc
Basic settings

/COCKPIT/EI2

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDI COCKPIT active</td>
<td>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.</td>
</tr>
<tr>
<td>Collective invoices</td>
<td>Enables the processing of collective invoices.</td>
</tr>
<tr>
<td>IDOC posting</td>
<td>Enables the processing of IDocs.</td>
</tr>
<tr>
<td></td>
<td>Note: If this option is enabled, PROCESS DIRECTOR documents with unplanned multi-account assignments cannot be posted; the Perform function must be used instead.</td>
</tr>
</tbody>
</table>

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 |

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

### Other fields

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Posting as IDoc</strong></td>
<td>Posts documents as standard IDocs, using the <strong>Process code</strong> (below).</td>
</tr>
<tr>
<td><strong>Process code</strong></td>
<td>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, <code>IDOC_INPUT_INVOIC_FI</code>.</td>
</tr>
<tr>
<td><strong>Posting copy of data</strong></td>
<td>Posts a copy of the original IDoc.</td>
</tr>
<tr>
<td><strong>Generate SAP data</strong></td>
<td>Determines the method of populating data in the resulting PROCESS DIRECTOR document for IDocs posted outside of EDI COCKPIT.</td>
</tr>
<tr>
<td></td>
<td>• Active: Data is got from SAP.</td>
</tr>
<tr>
<td></td>
<td>• Inactive: Data is got from the IDoc.</td>
</tr>
<tr>
<td><strong>PD document type</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>Transfer posted IDoc</strong></td>
<td>IDocs posted using the SAP standard IDoc interface are sent to PROCESS DIRECTOR and posted documents created there.</td>
</tr>
<tr>
<td><strong>Status non-posted IDoc</strong></td>
<td>The IDoc status for unposted documents. If no value is specified, 53 (posted) is used.</td>
</tr>
<tr>
<td><strong>SmartForm MM for PDF</strong></td>
<td>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: <code>/COCKPIT/EDI_FI</code> and <code>/COCKPIT/EDI_MM</code>.</td>
</tr>
<tr>
<td><strong>SmartForm FI for PDF</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Archive document type</strong></td>
<td>The document type used to archive the above SmartForms.</td>
</tr>
<tr>
<td><strong>e-Invoicing sender ID</strong></td>
<td>The ID of the sender.</td>
</tr>
<tr>
<td><strong>Receiver ID</strong></td>
<td>The ID of the receiver.</td>
</tr>
</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Segment name</td>
<td>The segment ID in the IDoc.</td>
</tr>
<tr>
<td>Structure</td>
<td>The type of field in PROCESS DIRECTOR.</td>
</tr>
</tbody>
</table>

Define fields

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

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field name</td>
<td>The ID of the PROCESS DIRECTOR field.</td>
</tr>
<tr>
<td>Segment name</td>
<td>The segment ID in the IDoc.</td>
</tr>
<tr>
<td>IDoc field name</td>
<td>The ID of the IDoc field.</td>
</tr>
<tr>
<td>Additional field</td>
<td>...</td>
</tr>
<tr>
<td>Field value</td>
<td>You can specify a pre-determined value for the field here. If you do, you must leave the Field name and Segment name blank.</td>
</tr>
<tr>
<td>Item ID</td>
<td>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.</td>
</tr>
</tbody>
</table>
| Search type   | 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 IDoc with this name will cause 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. |
### Setting

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Add values</td>
<td>Can be used when the data in an IDoc is stored in many of the same IDoc fields (e.g., long texts).</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Active</strong> – The data is concatenated and put into one PROCESS DIRECTOR field.</td>
</tr>
<tr>
<td></td>
<td><strong>Inactive</strong> – Only the first IDoc field is saved in the PROCESS DIRECTOR field.</td>
</tr>
</tbody>
</table>

### 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**: TEST_PROFILE_2
- **Company Code Segment**: 1EDK14
- **Company Code Field**: 0G10
- **Company Code Field**: QUALF
- **Add. Company Code**: 011
- **PO Number Segment**: 1EDK92
- **PO Number Field**: DELVR
- **PO Number Field**: QUALF
- **Additional PO No.**: 001
- **Delivery Note Segment**: 
- **Delivery Note Field**: 
- **Delivery Note Field**: 
- **Add. Delivery Note**: 
- **PO Number Segment**: 
- **PO Number Field**: 
- **PO Number Field**: 
- **Additional PO No.**: 
- **Delivery Note Segment**: 
- **Delivery Note Field**: 
- **Delivery Note Field**: 
- **Add. Delivery Note**: 

---
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.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Item ID</td>
<td>The ID of the mapping entry. The first entry must be 1, the second 2, and so on.</td>
</tr>
<tr>
<td>IDoc field value</td>
<td>The value in the IDoc.</td>
</tr>
<tr>
<td>IDoc field value</td>
<td>The new value, which is saved in the PROCESS DIRECTOR document.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sender ID</td>
<td>The ID of the sender and receiver.</td>
</tr>
<tr>
<td>Receiver ID</td>
<td></td>
</tr>
<tr>
<td>Data type</td>
<td>The type of file containing the IDoc (XML, flat text).</td>
</tr>
<tr>
<td>Path name</td>
<td>Path for a temporary file to load the IDoc file into EDI COCKPIT, if an empty default directory is used.</td>
</tr>
<tr>
<td>IDoc_beginning</td>
<td>A string representing the beginning of an IDoc in the incoming XML or flat text file.</td>
</tr>
<tr>
<td>Cut string at start</td>
<td>Option if the start of the string should be removed or not.</td>
</tr>
</tbody>
</table>
### Setting Description

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IDoc_end</td>
<td>A string representing the end of an IDoc in the incoming XML or flat text file.</td>
</tr>
<tr>
<td>Cut the end string</td>
<td>Option if the end of the string should be removed or not</td>
</tr>
<tr>
<td>Segment name</td>
<td>A name of a segment and a field in IDoc where a new invoice GUID is written to pass to EDI COCKPIT.</td>
</tr>
<tr>
<td>IDoc field name</td>
<td></td>
</tr>
<tr>
<td>Segment Name</td>
<td>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.</td>
</tr>
<tr>
<td>IDoc Field Name</td>
<td></td>
</tr>
<tr>
<td>Receiver port</td>
<td></td>
</tr>
<tr>
<td>Rec.partn.type</td>
<td></td>
</tr>
<tr>
<td>Rec.partn.fnct</td>
<td></td>
</tr>
<tr>
<td>Receiver</td>
<td></td>
</tr>
<tr>
<td>Sender port</td>
<td></td>
</tr>
<tr>
<td>Partn.type</td>
<td></td>
</tr>
<tr>
<td>Partn.funct</td>
<td></td>
</tr>
<tr>
<td>Partn.number</td>
<td></td>
</tr>
<tr>
<td>Message type</td>
<td></td>
</tr>
<tr>
<td>Message code</td>
<td></td>
</tr>
<tr>
<td>Msg.function</td>
<td></td>
</tr>
<tr>
<td>Port for XML</td>
<td>The port to use for creating the IDoc from XML and text files (SAP 4.7 and later only).</td>
</tr>
<tr>
<td>Port for File</td>
<td></td>
</tr>
</tbody>
</table>

### Define number and type of incoming files

This table defines the attachments expected from the sender.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sender ID</td>
<td>The ID of the sender and receiver.</td>
</tr>
<tr>
<td>Receiver ID</td>
<td></td>
</tr>
<tr>
<td>Sort number</td>
<td>Order of files.</td>
</tr>
<tr>
<td>File name pattern</td>
<td>The name of the incoming file. Does not have to be exact, wildcards such as '*' or '?' can be used here.</td>
</tr>
<tr>
<td>MimeType</td>
<td>Binary data or text data.</td>
</tr>
<tr>
<td>Document type</td>
<td>The document type used for archiving the attachment.</td>
</tr>
</tbody>
</table>
### Setting | Description
---|---
Document (attachment) type | Indicates whether the attachment is an IDoc, an image, or another kind of file.  
- 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.

**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

### 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.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IDoc type</td>
<td>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.</td>
</tr>
<tr>
<td>Number of IDocs to create</td>
<td>The number of IDocs to create.</td>
</tr>
<tr>
<td>Recipient/Partner settings</td>
<td>Information about the recipient of the test IDocs.</td>
</tr>
<tr>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>Sender settings</td>
<td>Information about the sender of the test IDocs.</td>
</tr>
</tbody>
</table>

Data definition to generate a test IDoc

/COCKPIT/EI4

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

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IDoc type</td>
<td>The IDoc template number. You can create up to nine IDoc templates, from which the IDocs are created.</td>
</tr>
<tr>
<td>Segment order</td>
<td>All segments must be numbered sequentially.</td>
</tr>
<tr>
<td>Segment name</td>
<td>The name of the segment for the <strong>INVOIC02</strong> basic type.</td>
</tr>
<tr>
<td>Field name</td>
<td>The field ID for the segment.</td>
</tr>
<tr>
<td>Field value</td>
<td>The value to be added to the created IDoc.</td>
</tr>
</tbody>
</table>
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:
1. Specify the data for your document(s) in /COCKPIT/EI4.
2. Generate the documents in /COCKPIT/EI5.

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

![IDoc list screen](image)

WE20 – IDoc selection screen.
Search result.

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.

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

Preview of the IDoc.

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

Note: 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.

The resulting document in PROCESS DIRECTOR. The Message logs show its IDoc origins.
Appendix A: Tables

The three main configuration tables are:

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

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E</td>
<td>Data is exported only. Changes are possible.</td>
</tr>
<tr>
<td>I</td>
<td>Data is imported only. Changes are not incorporated.</td>
</tr>
<tr>
<td>C</td>
<td>Data can be changed. Changes are possible.</td>
</tr>
</tbody>
</table>
## List of User Exits

<table>
<thead>
<tr>
<th>User Exit</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>600</td>
<td>Change of IDoc data before processing</td>
</tr>
<tr>
<td>601</td>
<td>Check SAP document of an IDoc</td>
</tr>
<tr>
<td>602</td>
<td>Retrieve SAP document number for a posted IDoc</td>
</tr>
<tr>
<td>603</td>
<td>Determine fiscal year for a posted IDoc</td>
</tr>
<tr>
<td>604</td>
<td>Determine company code for a posted IDoc</td>
</tr>
<tr>
<td>605</td>
<td>Check if IDoc is an FI or MM document</td>
</tr>
<tr>
<td>606</td>
<td>Changes before mapping of IDoc to a PROCESS DIRECTOR document</td>
</tr>
<tr>
<td>607</td>
<td>Changes before transferring IDoc to PROCESS DIRECTOR</td>
</tr>
<tr>
<td>608</td>
<td>Changes before transferring IDoc to PROCESS DIRECTOR</td>
</tr>
<tr>
<td>609</td>
<td>Change of IDoc data after processing</td>
</tr>
<tr>
<td>610</td>
<td>Determine posting function of an IDoc</td>
</tr>
<tr>
<td>611</td>
<td>XML import, changes in files</td>
</tr>
<tr>
<td>612</td>
<td>XML import, changes in XML before transfer to IDoc</td>
</tr>
<tr>
<td>613</td>
<td>XML import, retrieve invoice GUID from IDoc</td>
</tr>
</tbody>
</table>
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**

```plaintext
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

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

* User exit 600

*>>> START OF IMPLEMENTATION >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>

*<<<< END OF IMPLEMENTATION <<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<

ENDFUNCTION.
```
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.

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

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

* User exit 601
* Dummy entry for user exit cross reference check
  IF con_exit_edi_after_post IS INITIAL. ENDIF.

*>>> START OF IMPLEMENTATION >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>

*<<<< END OF IMPLEMENTATION <<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<

ENDFUNCTION.
```
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

`*" ERROR_MESSAGE

`*" OTHERS

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

`*@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_process_status IS INITIAL. ENDIF.

* User exit 602

`*>>> START OF IMPLEMENTATION >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>*

`*<<<< END OF IMPLEMENTATION <<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<*

ENDFUNCTION.
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.

<table>
<thead>
<tr>
<th>Template</th>
</tr>
</thead>
</table>
| FUNCTION /COCKPIT/USEX_RETR_FISC_YEAR.  
**""”Lokale Schnittstelle:  
** IMPORTING  
** REFERENCE(IS_SAP_DATA_CUST) LIKE /COCKPIT/CEDIW STRUCTURE  
** /COCKPIT/CEDIW  
** TABLES  
** T_TAB_MESSAGES STRUCTURE_BAPIRET2  
** CHANGING  
** REFERENCE(CN_FISCAL_YEAR) LIKE_BKPF-GJAHR  
** EXCEPTIONS  
** ERROR_OCCURRED  
** ERROR_MESSAGE  
** OTHERS  
**""”Lokale Schnittstelle:  
** IMPORTING  
** REFERENCE(IS_SAP_DATA_CUST) LIKE /COCKPIT/CEDIW STRUCTURE  
** /COCKPIT/CEDIW  
** TABLES  
** T_TAB_MESSAGES STRUCTURE_BAPIRET2  
** CHANGING  
** REFERENCE(CN_FISCAL_YEAR) LIKE_BKPF-GJAHR  
** EXCEPTIONS  
** ERROR_OCCURRED  
** ERROR_MESSAGE  
** OTHERS  
** User exit 603  
* Dummy entry for user exit cross reference check  
 IF con_exit_edi_retr_fiscal_year IS INITIAL. ENDIF.  
* User exit 603  
*""”START OF IMPLEMENTATION >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>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inconsistent

*""”START OF IMPLEMENTATION >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>> inconsistent

*""”END OF IMPLEMENTATION <<<....""”
ENDFUNCTION.
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.

<table>
<thead>
<tr>
<th>Template</th>
</tr>
</thead>
</table>
| FUNCTION /COCKPIT/USEX_RETR_COMP_CODE.  
***Local interface:  
** IMPORTING  
** REFERENCE(IS_SAP_DATA_CUST) LIKE /COCKPIT/CEDIW STRUCTURE  
** /COCKPIT/CEDIW  
** TABLES  
** T_TAB_MESSAGES STRUCTURE BAPIRET2  
** CHANGING  
** REFERENCE(CC_COMPANY_CODE) TYPE BUKRS  
** 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

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

* User exit 604  

*>>> START OF IMPLEMENTATION >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>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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**

```plaintext
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 => 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_check_fi_mm IS INITIAL. ENDIF.

* User exit 605

* >>> START OF IMPLEMENTATION >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>* 

* <<< END OF IMPLEMENTATION <<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<*

ENDFUNCTION.
```
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

```plaintext
FUNCTION /COCKPIT/USEX_BEFORE_MAP.
**--------------------------------------------------------------------------**
**  "Lokale Schnittstelle:
**  TABLES
**    T_TAB_MESSAGES STRUCTURE  BAPIRET2
**  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

* Dummy entry for user exit cross reference check
  IF con_exit_edi_before_map IS INITIAL. ENDF.

* User exit 606

*>> START OF IMPLEMENTATION >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>**

*<< END OF IMPLEMENTATION <<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<**

ENDFUNCTION.
```
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
**"   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

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

* User exit 607

*_THRESHould-------------START OF IMPLEMENTATION >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>*
```
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

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
### 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.

<table>
<thead>
<tr>
<th>Template</th>
</tr>
</thead>
<tbody>
<tr>
<td>FUNCTION /COCKPIT/USEX_CHANGE_IDOC2.</td>
</tr>
<tr>
<td><strong>Lokale Schnittstelle:</strong></td>
</tr>
<tr>
<td>** TABLES</td>
</tr>
<tr>
<td>** T_TAB_MESSAGES STRUCTURE BAPIRET2</td>
</tr>
<tr>
<td>** EXCEPTIONS</td>
</tr>
<tr>
<td>** ERROR_OCCURED</td>
</tr>
<tr>
<td>** ERROR_MESSAGE</td>
</tr>
<tr>
<td>** CANCEL</td>
</tr>
<tr>
<td>** OTHERS</td>
</tr>
</tbody>
</table>

* Dummy entry for user exit cross reference check

IF con_exit_edi_rfc IS INITIAL. ENDIF.

User Exit 608

* >>> START OF IMPLEMENTATION >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>*

* <<< END OF IMPLEMENTATION <<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<*

ENDFUNCTION.
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).

```plaintext
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 => 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_get_fmodule IS INITIAL. ENDIF.
```

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

* User exit 609

```plaintext
* >>> START OF IMPLEMENTATION >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>--------------------*

* <<< END OF IMPLEMENTATION <<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<*

ENDFUNCTION.
```
User Exit 611 – XML import, changes in files

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

```
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_edl_xml_files_process IS INITIAL. ENDIF.

* User exit 611

*>>> START OF IMPLEMENTATION >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
```

Template

```
* User exit 610

*>>> START OF IMPLEMENTATION >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>

*<<< END OF IMPLEMENTATION <<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<*

ENDFUNCTION.
```

Template

```
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_edl_xml_files_process IS INITIAL. ENDIF.

* User exit 611

*>>> START OF IMPLEMENTATION >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
```
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

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 => 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_change IS INITIAL. ENDIF.

* User exit 612

*>>> START OF IMPLEMENTATION >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>*
```
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.

```
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 => 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_ext_guid IS INITIAL. ENDIF.

* User exit 613

*>>> START OF IMPLEMENTATION >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>

*<<<<< END OF IMPLEMENTATION <<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<

ENDFUNCTION.
```
Appendix C: Transactions

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

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

A

ALE: Application Link Enabling.

E

EDI: Electronic Data Interchange.

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 /C0CKPIT/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.