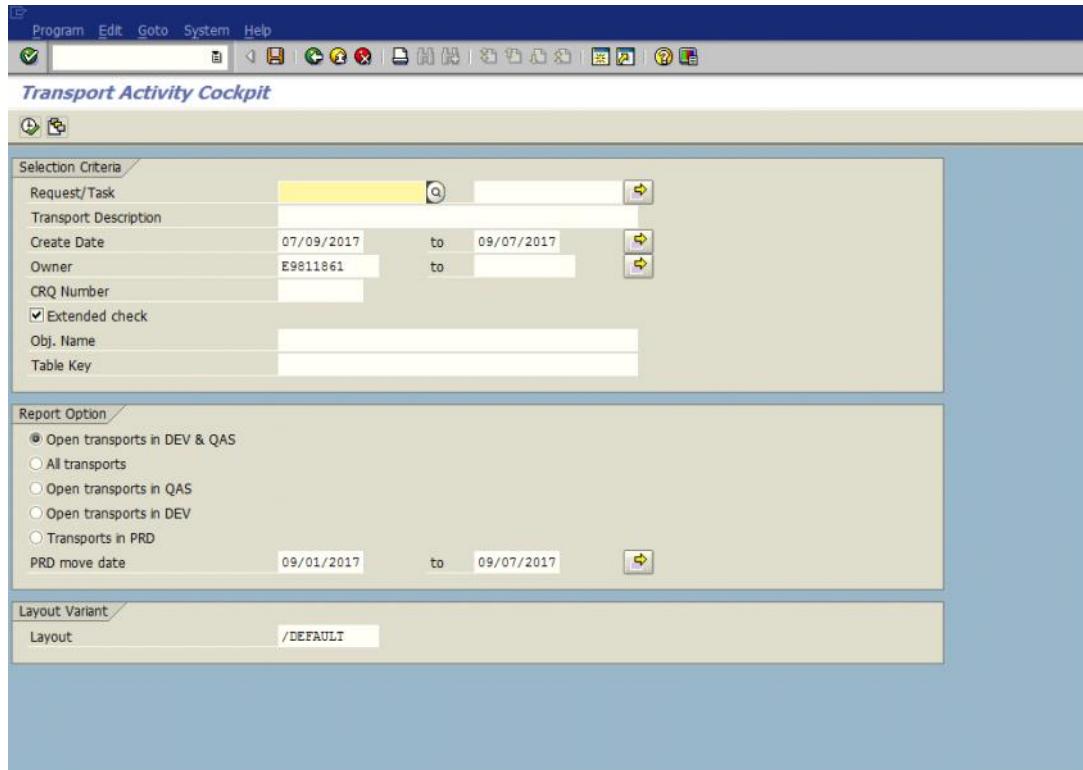


How to release transport in ABAP

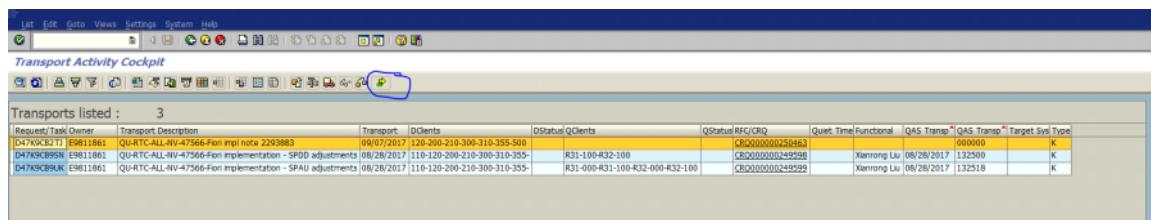
Thursday, September 7, 2017 1:38 PM

Transport tool process

- 1) Goto transaction ZCA1
- 2) Execute :-

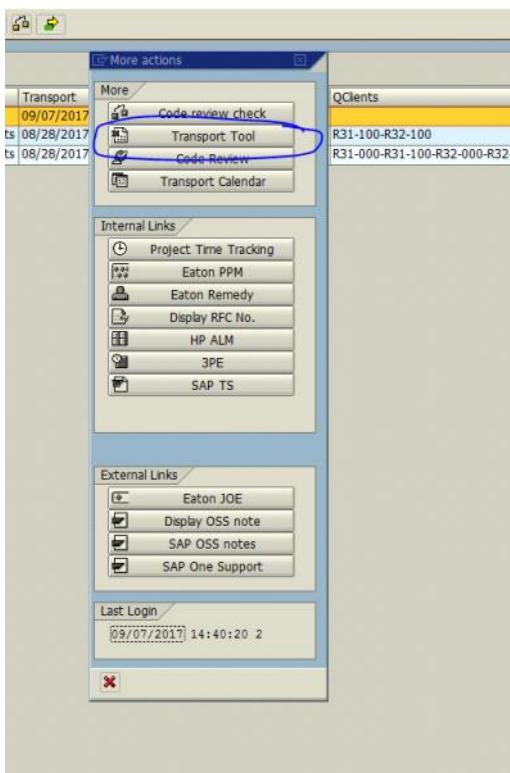


- 3) Select the transport and click on "More actions"

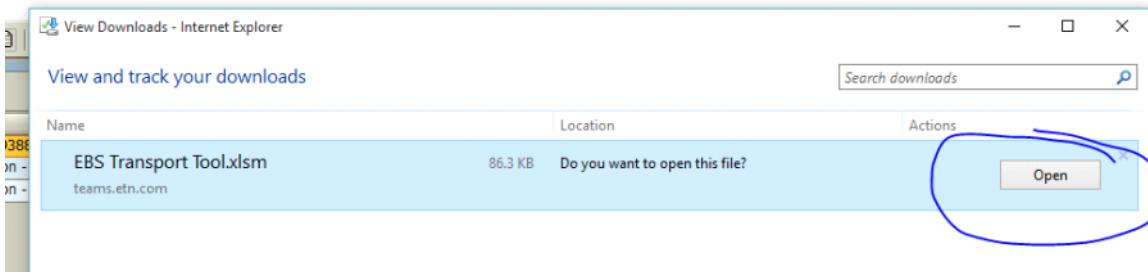


Request/Task	Owner	Transport Description	Transport	D0ents	DStatus	QClients	Q9status	RFI/CORQ	Quest. Time	Functional	QAS Trans.	CAS Trans.	Target Sel.	Type
D470KCB3TT	E9811861	QI-RTC-ALL-NV-47566-Fair impl note 2203883	09/07/2017	110-200-210-300-310-355-500			CR00000000268463		00:00:00				K	
D470KCB3BN	E9811861	QI-RTC-ALL-NV-47566-Fair implementation - SP00 adjustments	08/28/2017	110-120-200-210-300-310-355-	R31-100-432-100		CR00000000249588	Xierrong Lu	08/28/2017	132290			K	
D470KCB3UK	E9811861	QI-RTC-ALL-NV-47566-Fair implementation - SP01 adjustments	08/28/2017	110-120-200-210-300-310-355-	R31-000-431-100-432-000-R32-100		CR00000000249599	Xierrong Lu	08/28/2017	132518			K	

- 4) Click on "Transport Tool!"

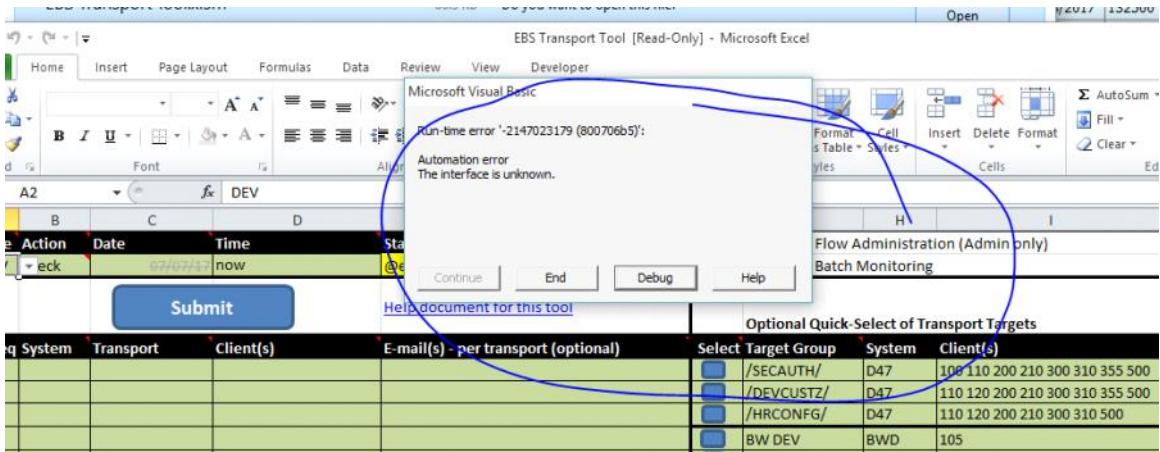


5) Open the excel

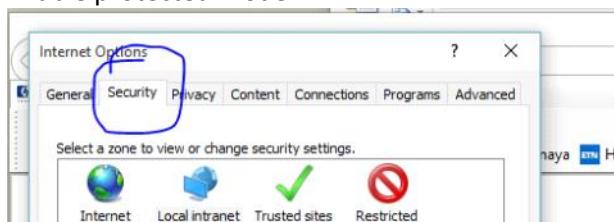


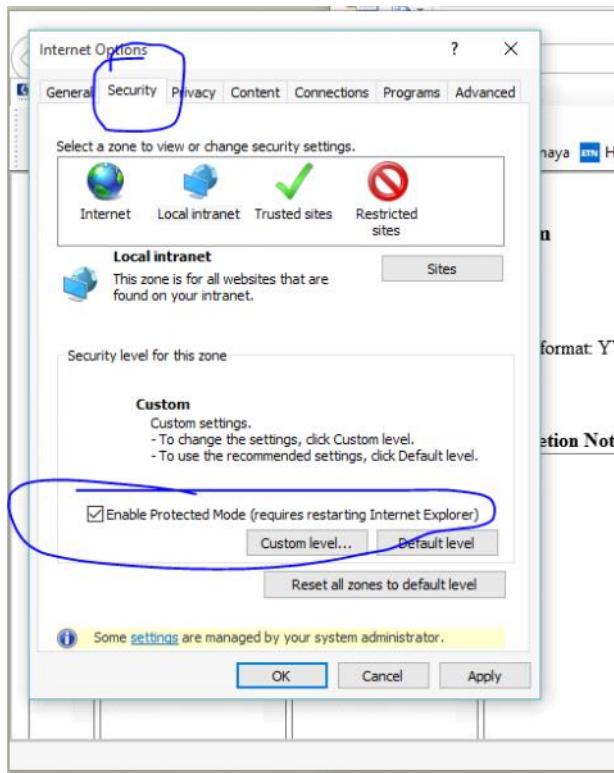
6) In case of error

- a. If this error occurs:-

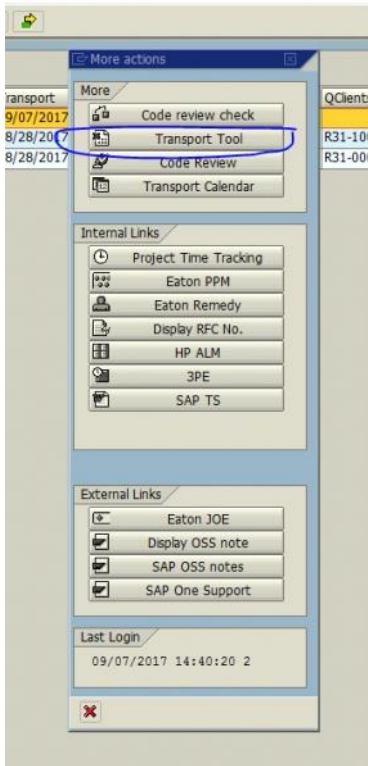


- a. Enable protected mode

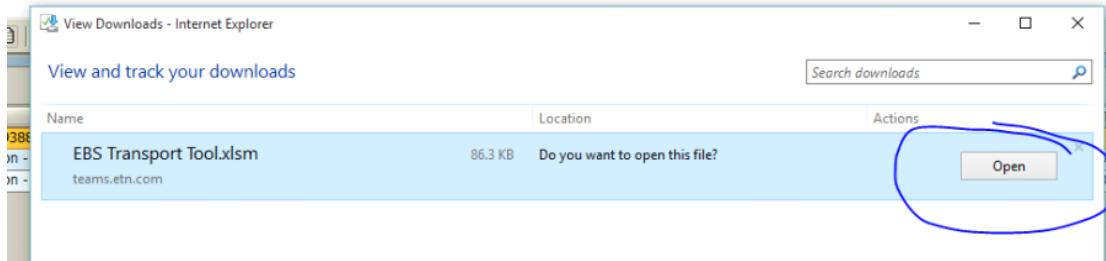




b. Open transport tool again



a. Open the excel again



- 7) Fill in transport number, email and select R31.

Check import option :-

A	B	C	D	E	F
Role	Action	Date	Time	Status Report E-mail(s)	
DEV	import	06/18/18	now	narahrivedula@eaton.com	<input checked="" type="checkbox"/> <input type="checkbox"/>
				Submit	Help document for this tool
Seq	System	Transport	Client(s)	E-mail(s) - per transport (optional)	Select

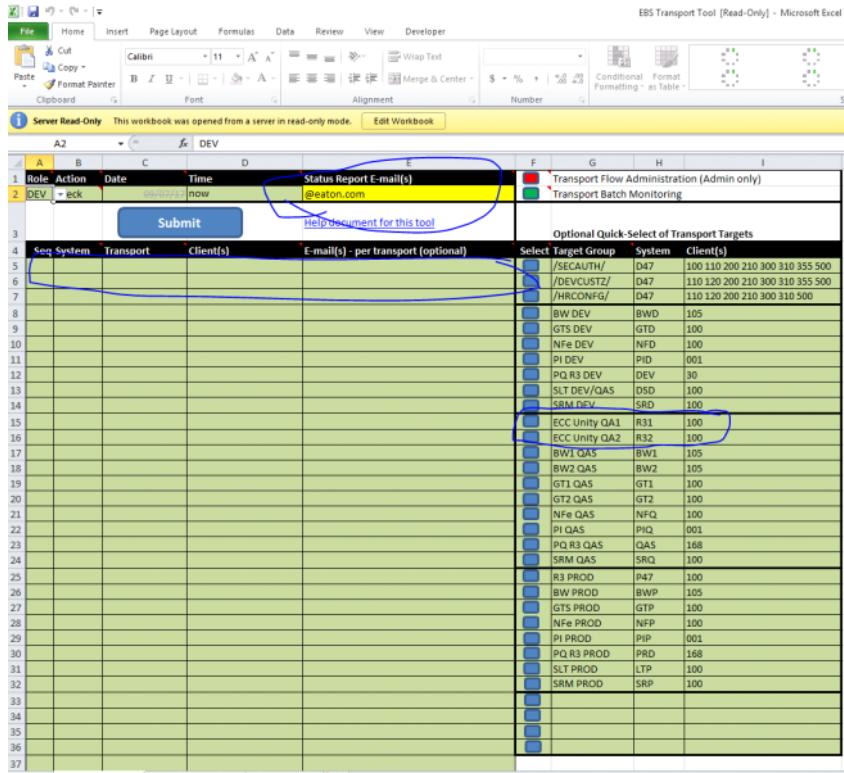
Microsoft Excel - EBS Transport Tool [Read-Only].xlsx

File Home Insert Page Layout Formulas Data Review View Developer

Server Read-Only This workbook was opened from a server in read-only mode. Edit Workbook

A	B	C	D	E	F	G	H	I
Role	Action	Date	Time	Status Report E-mail(s)	Select Target Group	System	Client(s)	
DEV	check	06/18/18	now	@eaton.com	<input checked="" type="checkbox"/> <input type="checkbox"/>	/SECAUTH/	D47	100 110 200 210 300 310 355 500
						/DEVCUS/	D47	110 120 200 210 300 310 355 500
						/HRCNF/G/	D47	110 120 200 210 300 310 500
						BW DEV	BWD	105
						GTS DEV	GTD	100
						NFe DEV	NFD	100
						PI DEV	PID	001
						PQ,R3 DEV	DEV	30
						SLT DEV/QAS	DSD	100
						SRM DEV	SRD	100
						ECC Unity QAS	R31	100
						ECC Unity QAS	R32	100
						BW1 QAS	BW1	105
						BW2 QAS	BW2	105
						GT1 QAS	GT1	100
						GT2 QAS	GT2	100
						NFe QAS	NFQ	100
						PI QAS	PIQ	001
						PQ,R3 QAS	QAS	168
						SRM QAS	SRQ	100
						R3 PROD	P47	100
						BW PROD	BWP	105
						GTS PROD	GTP	100
						NFe PROD	NFP	100
						PI PROD	PIP	001
						PQ,R3 PROD	PRD	168
						SLT PROD	LTP	100
						SRM PROD	SRP	100

- 8) Repeat the same for R32 (Fill in transport number, email and select R32)



9) It will ask for user id and pwd :-

ABAP Transport tool :-

http://teams.etn.com/team/ebsit/TechArchitecture/ebs_sap/Inhousing/EBS SAP Transports/EBS Transport Tool.xlsxm

Uid :-tpdev

Pwd:- D3Vlu9

10) You should receive an email similar to below:-

P47_LFO|Xpor

File Message Developer

Ignore X

Junk Delete Reply All Forward IM More

Urgent WhenPossible MoveToFolder Create New

Move Rules OneNote Actions

Mark Unread Categorize Follow Up

From: SAP System Administrator <p47adm@elbp1991.tcc.etn.com>
To: Vedula, Narahari(Hari)
Cc:
Subject: P47_LFO|XportRpt|elbp1991|1 Transports

XportRpt 1 Transports

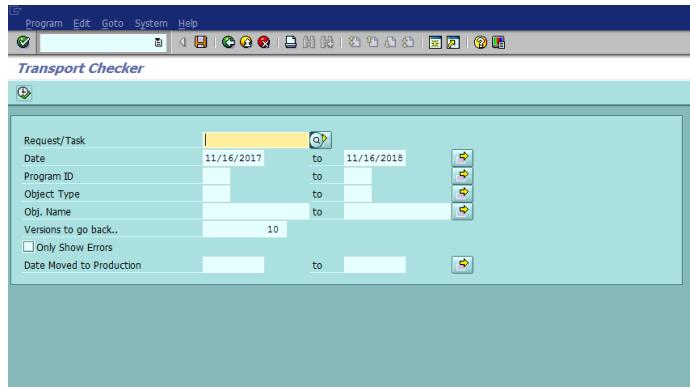
Sent to:NarahariVedula@eaton.com

```
tp showbuffer R32 > /tmp/tp-import.sh.6367.tmp.buffer01 .
Starting buffer operations (1): Thu Sep 7 12:18:16 EDT 2017. .
if grep "D47K9CB2TJ *" /tmp/tp-import.sh.6367.tmp.buffer01; then tp delfrombuffer D47K9CB2TJ R32 client=100;fi .
tp addtobuffer D47K9CB2TJ R32 client=100 U01236 .
tp import D47K9CB2TJ R32 client=100 .
XportRpt 1 of 1 D47K9CB2TJ R32 client=100 Exit Code: 0 12:18:20. .
/cit/sapscripts/tp-import.sh d /tmp/tp-import.sh.21402.delfrombuffer R32 > /tmp/tp-import.sh.21402.delfrombuffer.at.out 2>&1 .
echo rm -f /tmp/tp-import.sh.21402.delfrombuffer* | at now + 30 days .
:COMPLETE: .
```

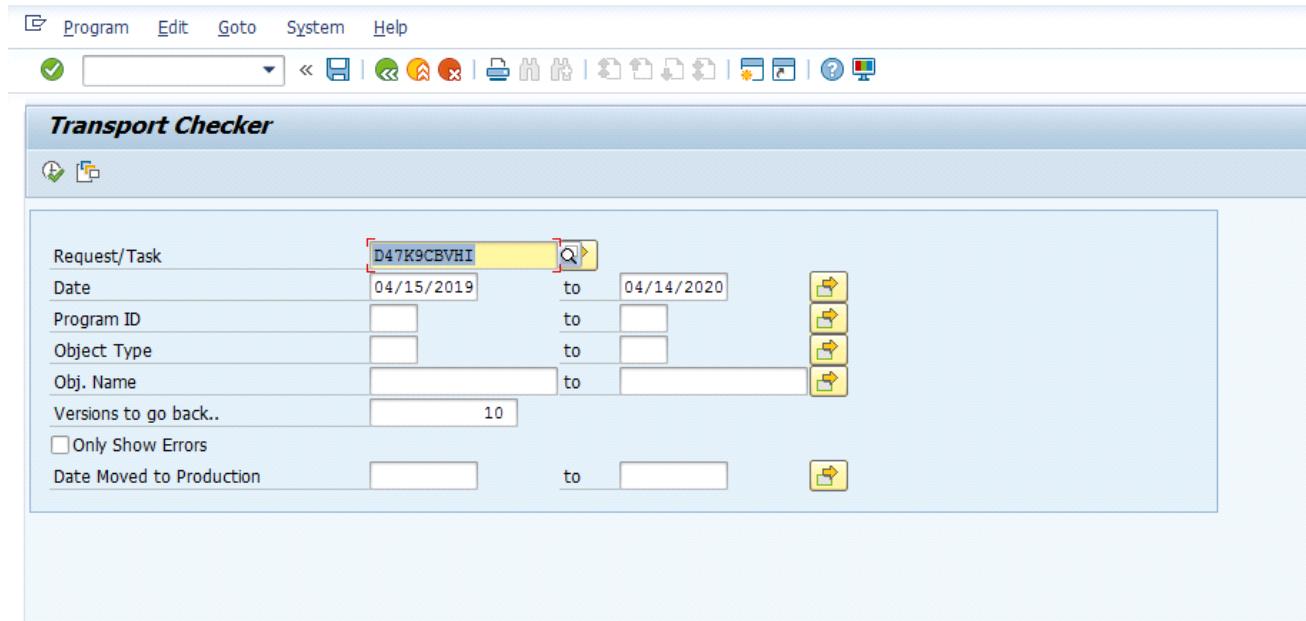
Transport check tools

Friday, November 16, 2018 10:07 AM

ZBC_TRANSPORT_CHECK_MKG - mike's program
ZCA1



ZBC_TRANSPORT_CHECK



/SDF/TRCHECK

From <<https://blogs.sap.com/2019/05/19/transport-request-check-tool/>>

To check if this causes any error while trying to import transport to target system :-

Program Edit Goto System Help

Check Transport Request

Usage Statistics History

System Information

RFC to Source System:

RFC to Target System:

Transport Details

Transport Requests

Import Queue from Target System/Client /

Import Queue from System/Client /

Transport Checks

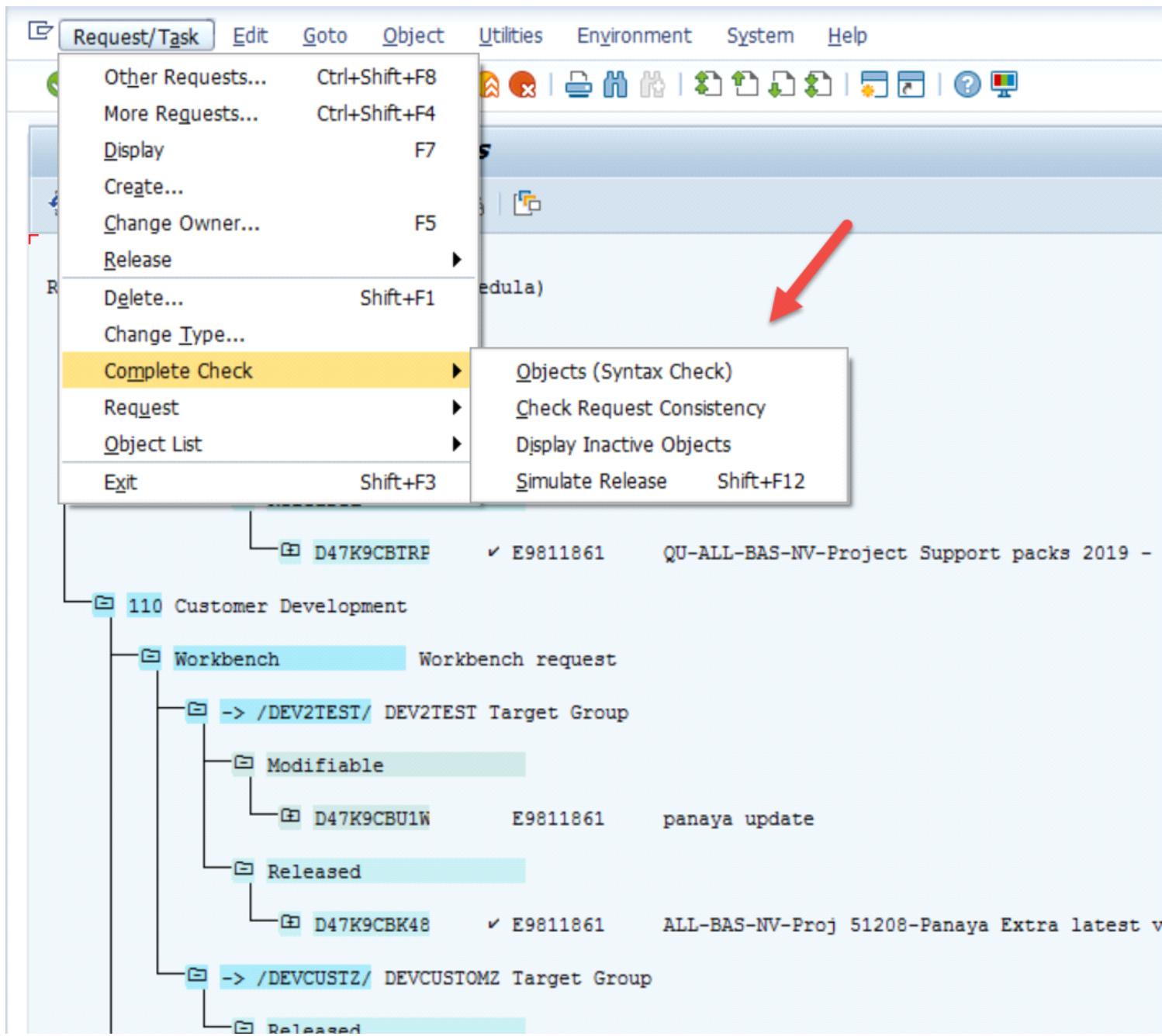
Cross Reference
 Sequence Check
 Cross Release
 Import Time in Source System
 Online Import Check

Save Check Results

Save Results

Description:

SE09 - Complete Check

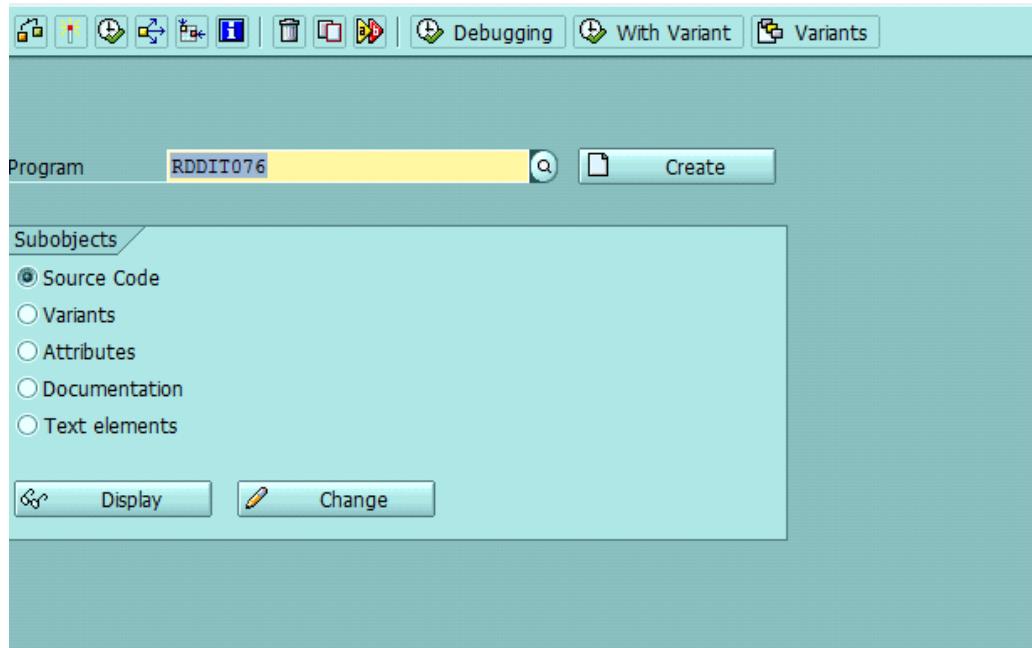


Program to change released transport

Friday, October 6, 2017 9:59 AM

<https://blogs.sap.com/2014/09/03/how-to-change-released-tr-into-unreleased-tr/>

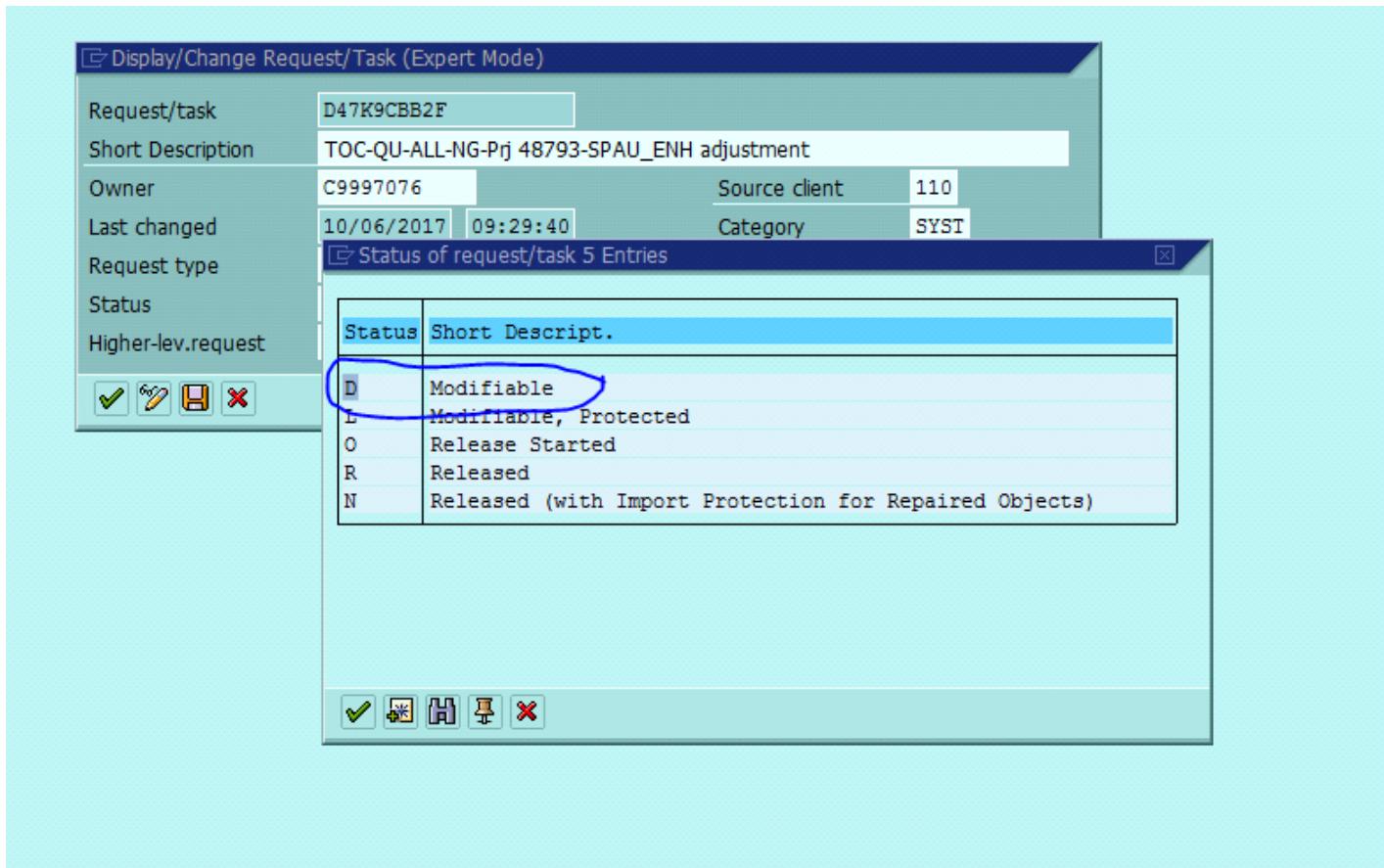
ABAP Editor: Initial Screen



Overview of Requests

The screenshot shows the 'Overview of Requests' screen. At the top, there is a toolbar with a magnifying glass icon. Below the toolbar, the 'Request/Task' field contains 'D47K9CBB2F'. To the right of the request ID is a search button. The main area displays a table of transports. The table has a header row with columns: Request/Task, Typ, Stat, Target Sys, Requ, Owner, Date, Time, Higher-Level Request, Sour, and Targ. Below the header, there is one data row corresponding to the request 'D47K9CBB2F'. The data in the row is as follows:

Request/Task	Typ	Stat	Target Sys	Requ	Owner	Date	Time	Higher-Level Request	Sour	Targ
D47K9CBB2F	I	R	/DEVCUSTZ/	SYST	C9997076	10/06/2017	09:29:40		110	



Finding Inactive Objects in SAP System | SAPBASISINFO

Monday, March 9, 2020 5:46 PM

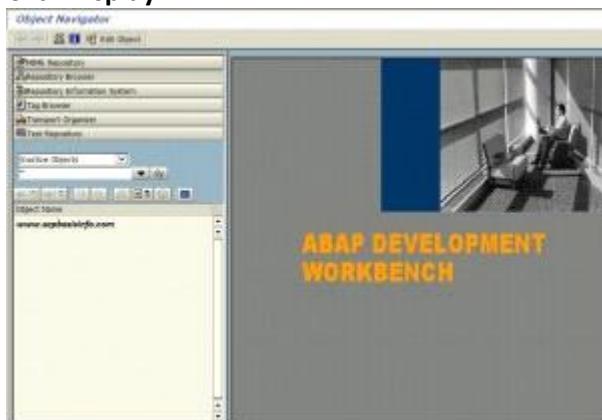
Finding Inactive Objects in SAP System

If you want to get a list of “**Inactive Objects**” for your SAP system then you can use 2 easy way to do this...You can use “*Repository Browser*” or “*ABAP Dictionary*” method..

If you going to use “**Repository Bowser**” ;

TCODE → SE80 → Repository Browser Tab → Select : Inactive Objects → User Value : *

Click Display

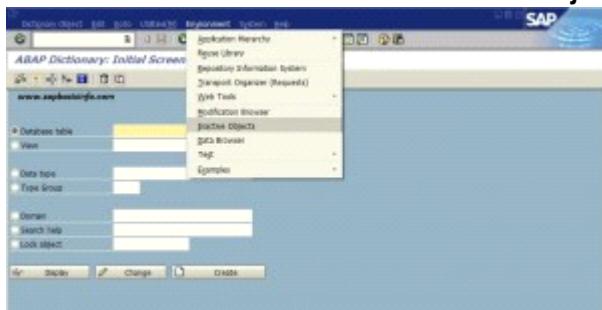


You will get the list



If you going to use “**ABAP Dictionary**” ;

TCODE → SE11 → Environment → Inactive Objects



In SAP Basis Informations Tags: [ABAP dictionary](#), [Finding Inactive Objects in SAP System](#), [Inactive Object](#), [repository browser](#), [SE11](#), [SE80](#)

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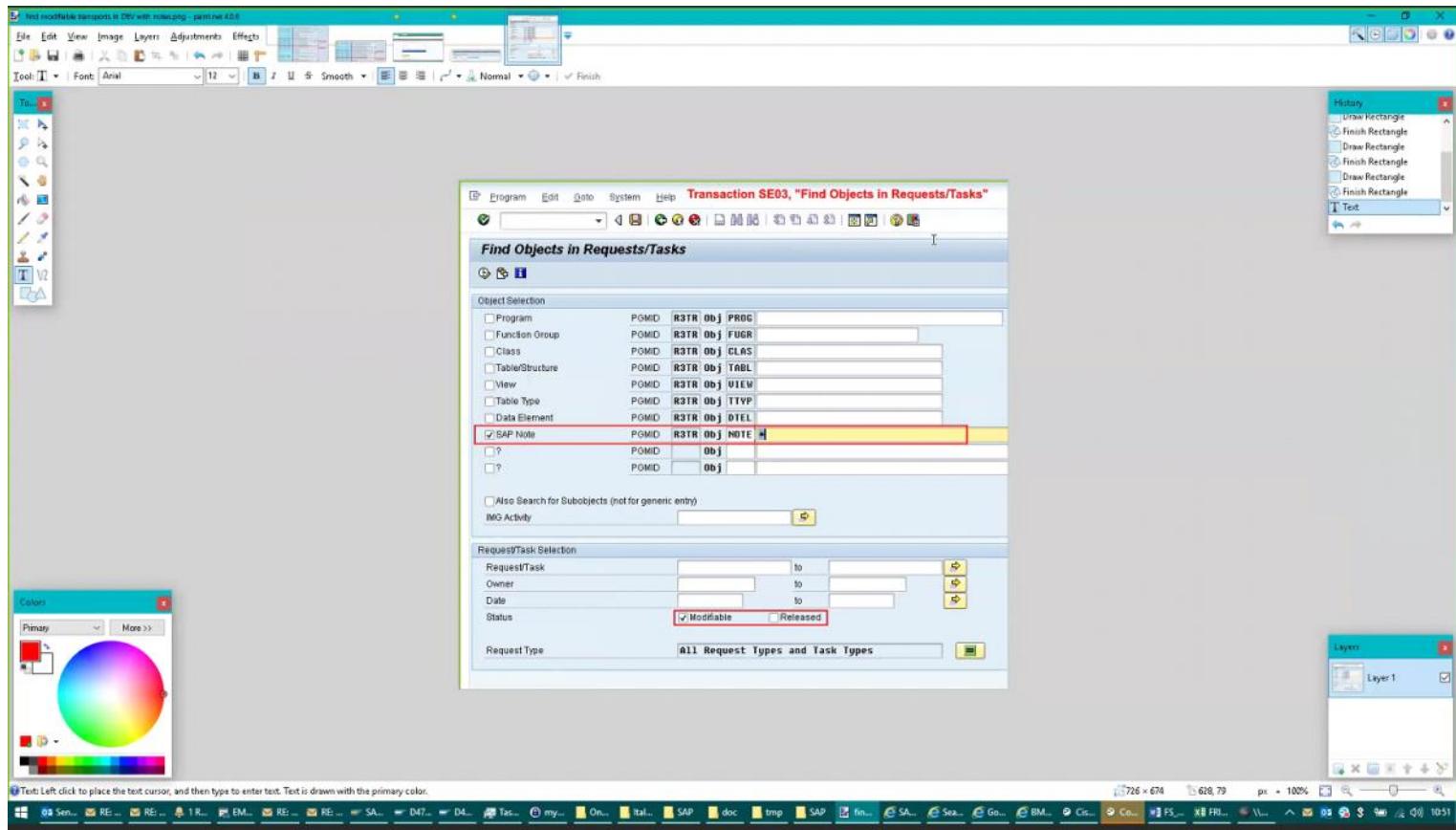
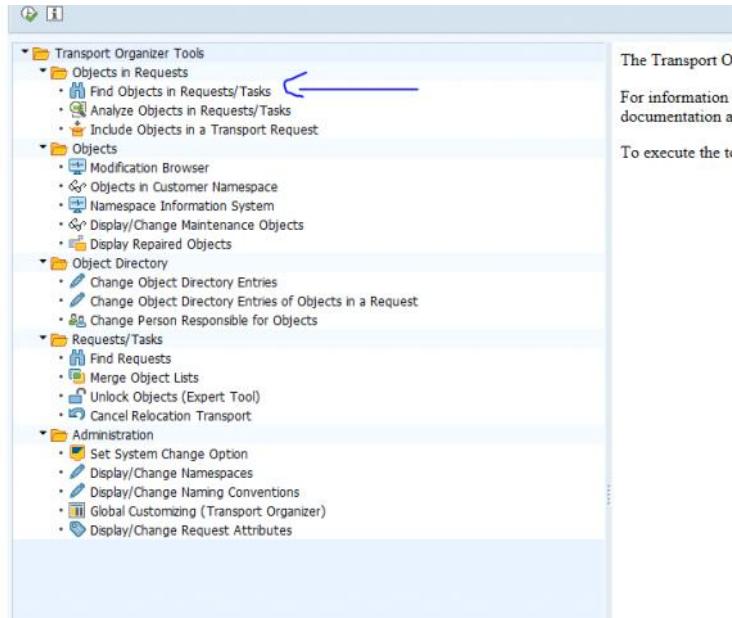
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Inserted from <<http://sapbasisinfo.com/blog/2014/05/28/finding-inactive-objects-in-sap-system/>>

How to find out open transports with SAP notes

Thursday, March 12, 2020 8:55 AM

Transaction SE03



System Help

Search for Objects in Requests/Tasks

Objects View

Request Overview

Request	Short Description	Owner	Date	Type	Status
D47K904795	GTS OSS Note 696059: Copy of transport D47K904634	JAA2E	01/14/2004	Transport of copies	Modifiable
D47K9C09W7	OSS note 140573	E9812036	05/10/2011	Workbench Request	Modifiable
D47_P00006	Generated Project Piece List	D5CAB6	06/13/2006	Piece list for CTS project	Modifiable
D47_P00013	Generated Project Piece List	E0415600	02/01/2018	Piece list for CTS project	Modifiable
D47_P00016	Generated Project Piece List	CROSS22	08/26/2004	Piece list for CTS project	Modifiable
D47_P00020	Generated Project Piece List	CROSS22	09/29/2004	Piece list for CTS project	Modifiable
D47_P00022	Generated Project Piece List	F3F15F	07/18/2005	Piece list for CTS project	Modifiable
D47_P00069	Generated Project Piece List	E9810792	06/19/2007	Piece list for CTS project	Modifiable
D47_P00189	Generated Project Piece List	E9817054	03/05/2015	Piece list for CTS project	Modifiable
D47_P00193	Generated Project Piece List	E9817054	03/17/2015	Piece list for CTS project	Modifiable
LSMW_OBJ_LIST_731	List of all LSMW objects from package /SAPDMC/LSMW 731	SAP	11/25/2014	Piece list	Modifiable
SAPKAAA740		DDIC	01/16/2020	Piece list	Modifiable

Task Overview

Task	Short Description	Owner	Date	Type	Status
D47K9C1TA6	QTC-ALL-SMM-Project 42863 ATP:Purchasing docOSS note 1353658	E9812608	02/26/2015	Repair	Modifiable
D47K9CB5AX	Sapnote406849	E0392833	03/20/2017	Repair	Modifiable
D47K9CB5DT	OSS Note 100690	E9812036	03/22/2017	Repair	Modifiable
D47K9CBJEG	SPAU - Support Pack 2018	FE896	10/12/2018	Repair	Modifiable
D47K9CBJU1	QTC-ALL-SMM-Project 42863 ATP:Purchasing docOSS note 1353658	E0360036	10/17/2018	Repair	Modifiable
D47K9CBSV	QU-BW-ALL-MO- SAP NOTE 2607059 implementation	E0406574	10/18/2019	Repair	Modifiable
D47K9CBT8K	QU-EHS-ALL-RL-PBI 131901 error Unit log	E0387289	12/10/2019	Repair	Modifiable
D47K9CBU4K	Proj#51582:Hungary SAP real time invoice XML v2.0 TR#1	E0502112	02/03/2020	Repair	Modifiable
D47K9CBU63	QU-FICO-AJH-PROJ51707-FEC updates + note 1923322v27 DDIC	E5010430	03/03/2020	Repair	Modifiable
D47K9CBUJ4	Support Pack 2019 - Notes	C9907838	02/26/2020	Repair	Modifiable
D47K9CBUV4	Addn. SAP Note Imp. based on the result of Prog. Z_SAP_TCI_A	E0360036	03/09/2020	Repair	Modifiable
D47K9CBUYE	QU-FICO-ALL-RK-PROJ#51582:SAP Hungary RT Inv XML V1.1 TR#1	E0502112	03/12/2020	Repair	Modifiable

How to change released TR into Unreleased TR | SAP Blogs

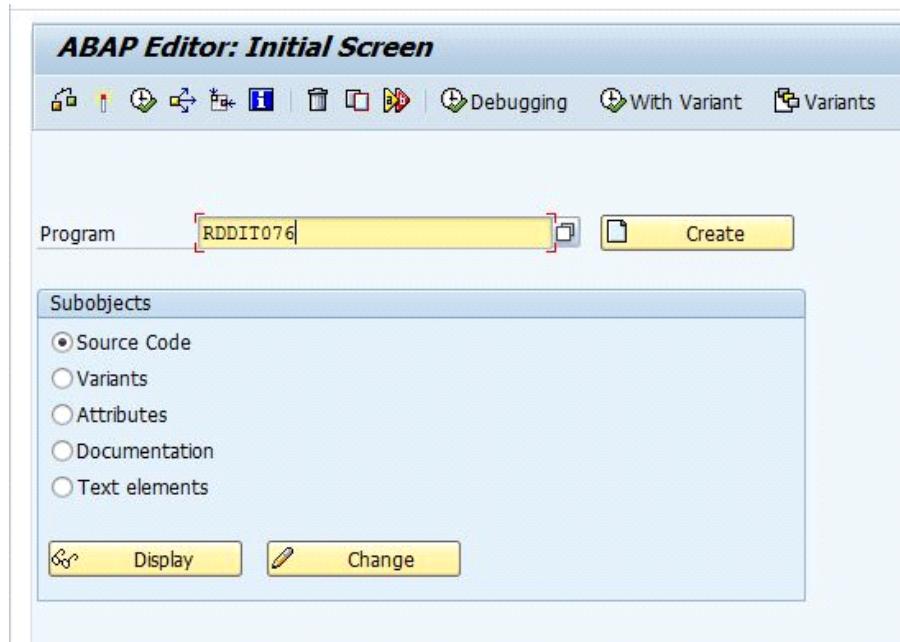
Friday, March 27, 2020 7:05 AM

Clipped from: <https://blogs.sap.com/2014/09/03/how-to-change-released-tr-into-unreleased-tr/>

Hi Experts,

I will explain the procedure for changing released TR into unreleased TR. i.e; modifiable state. There is no option given explicitly for chaning the released TR into unreleased TR in STMS or SE01 Transactions. we have to follow the below steps.

1. Go to SE38
2. execute the report RDDIT076



3. now, we will get the below screen which asks for TR/Tasks . give the released TR number and execute (F8)



4. Once executed, you will get the below window,

Overview of Requests

Test logical system-Don't move											
Request/Task	Typ	Stat	Target	Sys	Requ	Owner	Date	Time	Higher-Level Request	Sour	Targ
DEVK902733	K	R	[REDACTED]	SYST	[REDACTED]	[REDACTED]	03.09.2014	17:15:56		200	
DEVK902734	S	R		SYST	[REDACTED]	[REDACTED]	03.09.2014	17:15:43	DEVK902733	200	

5. first we need to change the task to unreleased. double click on the task number. now, click on the pencil button to enter edit mode.then click on input help on the filed "Status"

The screenshot shows the SAP Fiori interface for managing requests. At the top, there's a header bar with the title 'Overview of Requests'. Below it is a table with two rows of data. The first row is for request 'DEVK902733' and the second for 'DEVK902734'. The table columns include Request/Task, Typ, Stat, Target, Sys, Requ, Owner, Date, Time, Higher-Level Request, Sour, and Targ. In the 'Stat' column, the value for DEVK902733 is 'R' (Released). A modal dialog titled 'Display/Change Request/Task (Expert Mode)' is open over the table. It contains fields for Request/task (set to 'DEVK902734'), Short Description ('Test logical system-Don't move'), Owner ([REDACTED]), Last changed ('03.09.2014 17:15:43'), Request type ('S'), Status ('R'), and Higher-lev.request ('DEVK902733'). Below this, a smaller dialog titled 'Status of request/task (2) 5 Entries found' is open, showing a list of status codes: D, L, O, R, and N. The status 'D' is highlighted with a yellow background and a yellow border.

6. change the status from "R" to "D" and save

Overview of Requests

DEVK902733 Test logical system-Don't move										
Request/Task	Typ	Stat	Target Sys	Requ	Owner	Date	Time	Higher-Level Request	Sour	Targ
DEVK902733	K	R	[REDACTED]	SYST	[REDACTED]	03.09.2014	17:15:56		200	
DEVK902734	S	D		SYST	[REDACTED]	03.09.2014	17:28:39	DEVK902733	200	

Display/Change Request/Task (Expert Mode)

Request/task	DEVK902734		
Short Description	Test logical system-Don't move		
Owner	[REDACTED]	Source client	200
Last changed	03.09.2014 17:28:39	Category	SYST
Request type	S	Target system	[REDACTED]
Status	D	Target client	[REDACTED]
Higher-lev.request	DEVK902733		

7. now repeat the steps 5 and 6 for Transport request. finally the status column should be in "D" as shown in below.

Overview of Requests

DEVK902733 Test logical system-Don't move										
Request/Task	Typ	Stat	Target Sys	Requ	Owner	Date	Time	Higher-Level Request	Sour	Targ
DEVK902733	K	D	[REDACTED]	SYST	[REDACTED]	03.09.2014	17:31:30		200	
DEVK902734	S	D		SYST	[REDACTED]	03.09.2014	17:28:39	DEVK902733	200	

8. now goto SE01 or SE09, type the TR number and check. it will be in modifiable state.

Once you changed the TR into modifiable, you can change objects in the TR. you have to again release the task and TR. However, once we changed the released TR into modifiable, you can't release the TR again and you will be getting an error "Request <Request ID> has the invalid attribute EXPTIMESTAMP"

you have to double click on the TR, navigate to the properties tab. enter into edit mode. you can see "Attribute" column in the screen.

Select the row "EXPORT_TIMESTAMP" and delete that row. save and come back. now you can release the TR. now the datafile and cofile will be overwritten in OS level with same file name.

Cheers,

Pradeep

Transport validation tool

Thursday, January 28, 2021 12:49 PM

/SDF/CMO_TR_CHECK

The screenshot shows the SAP Check Transport Request interface. At the top, there is a toolbar with icons for Program, Edit, Goto, System, and Help. Below the toolbar, the title "Check Transport Request" is displayed. Underneath the title, there are links for Usage Statistics and History.

The main area is divided into several sections:

- System Information:** Contains fields for "RFC to Source System" (set to "NONE") and "RFC to Target System".
- Transport Details:** Contains radio buttons for "Transport Requests" (selected), "Import Queue from Target System/Client", and "Import Queue from System/Client".
- Transport Checks:** Contains a list of checkboxes for "Cross Reference", "Sequence Check", "Cross Release", "Import Time in Source System", and "Online Import Criticality".
- Save Check Results:** Contains a checkbox for "Save Results" and a text input field for "Description".

ZCA1

Program Edit Goto System Help

Transport Activity Cockpit

Selection Criteria

Request/Task	<input type="text"/>	<input type="button" value="Search"/>	<input type="text"/>	<input type="button" value="Next"/>
Transport Description	<input type="text"/>			
Create Date	<input type="text" value="11/29/2020"/>	to	<input type="text" value="01/28/2021"/>	<input type="button" value="Next"/>
Owner	<input type="text" value="E9811861"/>	to	<input type="text"/>	<input type="button" value="Next"/>
CRQ Number	<input type="text"/>			
<input checked="" type="checkbox"/> Extended check				
Obj. Name	<input type="text"/>			
Table Key	<input type="text"/>			
Dependencies by Keyword	<input type="text"/>			

Report Option

Open transports in DEV & QAS
 All transports
 Open transports in QAS
 Open transports in DEV
 Open transports in R3S
 Transports in PRD
PRD move date to
 Transport Planner

Layout Variant

Layout

IDOC Transactions

Wednesday, April 15, 2020 12:48 PM

WE19	Test or reprocess IDOC
WE31	IDOC Segment display
WE02	IDOC search (display IDOC)
WE05	IDOC lists
WEDI	For all IDOC transactions
WE10	Search for IDOC by content
WE82	Assign Messages for IDOC types
WE30	IDOC TYPE
WE20	Partner profiles

BD97	Status Monitor for ALE Messages
SXI_MONITOR	Message monitor
SXMB_MONI	Integration engine monitor
BD64	Display Distribution Model
SM59	RFC Destination

IDOC details

Wednesday, April 15, 2020 1:47 PM

This example is in R31 337440239

The screenshot shows the SAP IDoc Display interface for message ID 0000000337440239. The left pane displays the message structure with sections for Control Rec., Data records, and Status records. The right pane shows technical information and the content of the selected segment.

Short Technical Information	
Direction	1 Outbox
Current Status	03
Basic type	LOIPRO02
Extension	
Message Type	ZDHL_LOIPRO2
Partner No.	LS_DHLGB
Partn.Type	LS
Port	SAP_PX1

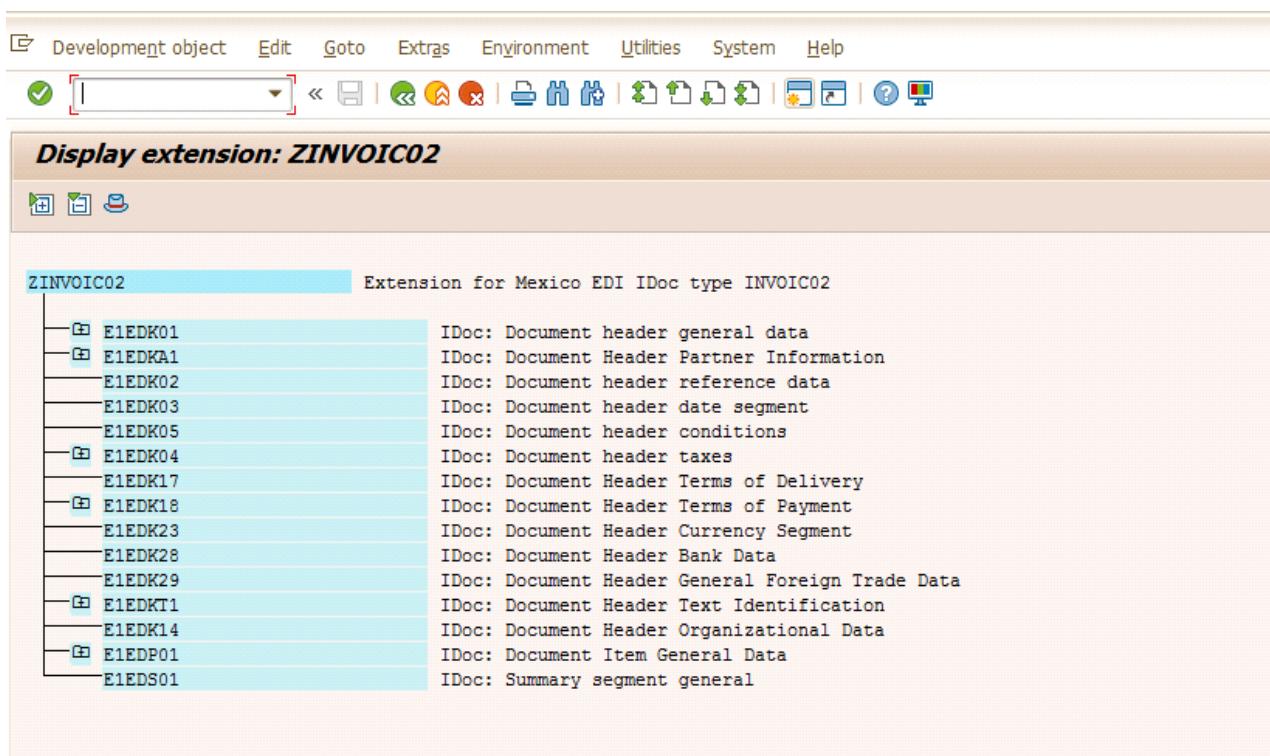
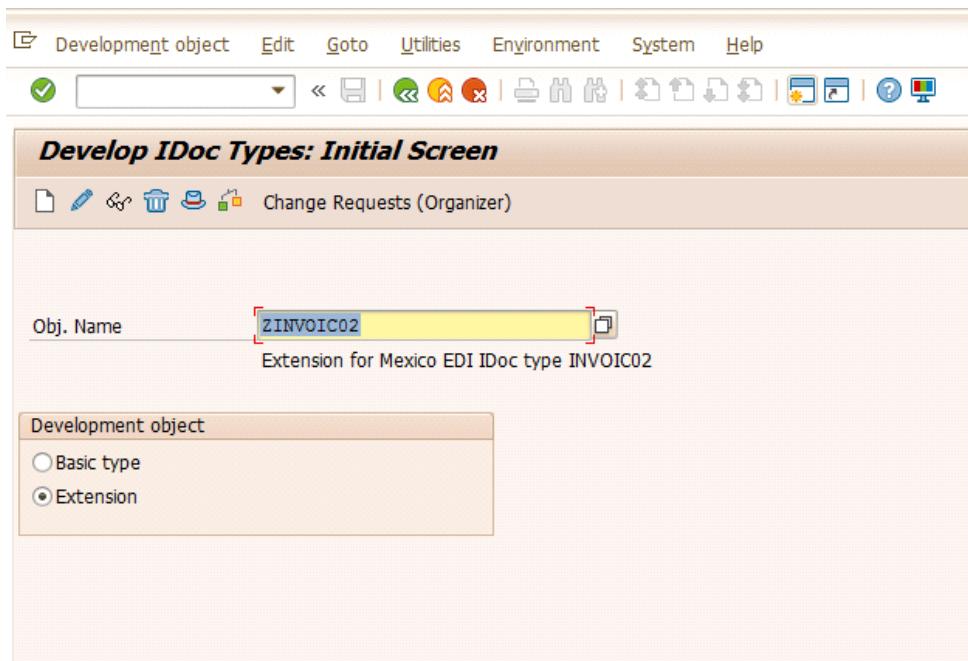
Content of Selected Segment

Fld Name	Fld Cont.

Handwritten annotations:

- A blue arrow points from the "Message Type" field to the value "ZDHL_LOIPRO2".
- A blue arrow points from the "Port" field to the value "SAP_PX1".
- A handwritten note "PT" is placed next to the "Port" field.

IDOC type WE30



SAP IDOC Tutorial

Wednesday, April 15, 2020 2:57 PM

GURU99

• SAP IDOC Tutorial: Definition, Structure, Types, Format & Tables

Details

Last Updated: 01 March 2020

What is an IDOC?

IDOC is **simply a data container** used to exchange information between any two processes that can understand the syntax and semantics of the data.

In other words, an IDOC is like a data file with a specified format which is exchanged between 2 systems which know how to interpret that data.

IDOC stands for " **Intermediate Document**"

When we execute an **outbound** ALE or EDI Process, an IDOC is created.

In the SAP System, IDOCs are stored in database. Every IDOC has a **unique number**(within a client).

In this tutorial you will learn:

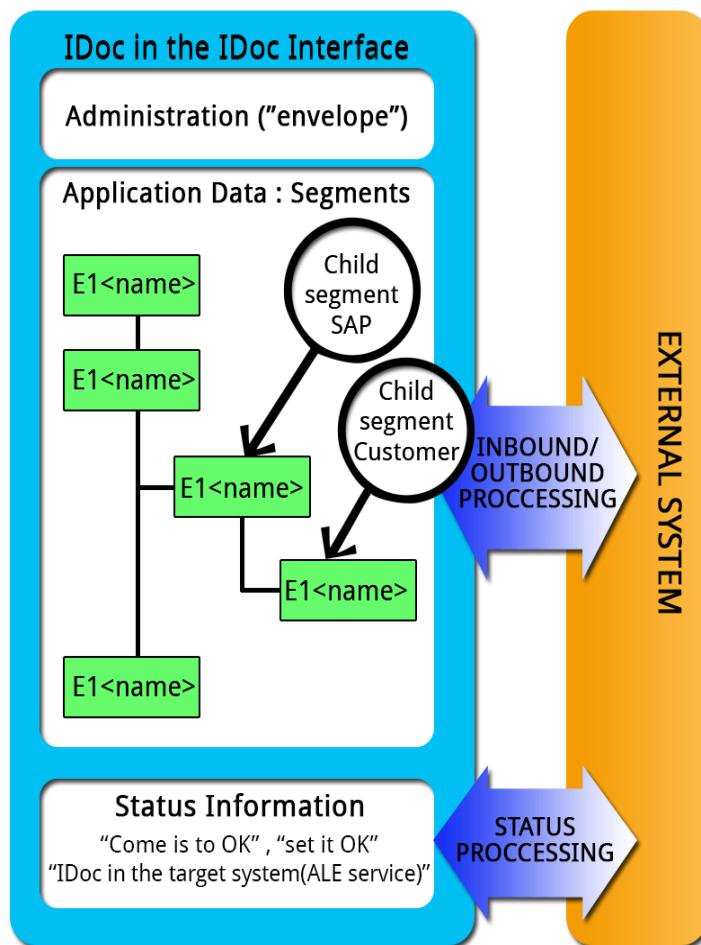
- [What is an IDOC?](#)
- [Structure of an IDOC](#)
- [IDOC Types](#)
- [What is a Segment?](#)
- [What is Extension IDOC type?](#)
- [IDOC Views](#)
- [Partner Profiles](#)
- [Port](#)
- [The Outbound Process](#)
- [The Inbound Process](#)

Key Features

- IDOCs are **independent of the sending and receiving systems.**(SAP-to-SAP as well as Non-SAP)
- IDOCs are based on EDI standards, ANSI ASC X12 and EDIFACT. In a case of any conflict in data size, it adopts one with greater length.
- IDOCs are **independent of the direction of data exchange** e.g. ORDERS01: Purchasing module: Inbound and Outbound

- IDOCs can be viewed in a **text editor**. Data is stored in character format instead of binary format.

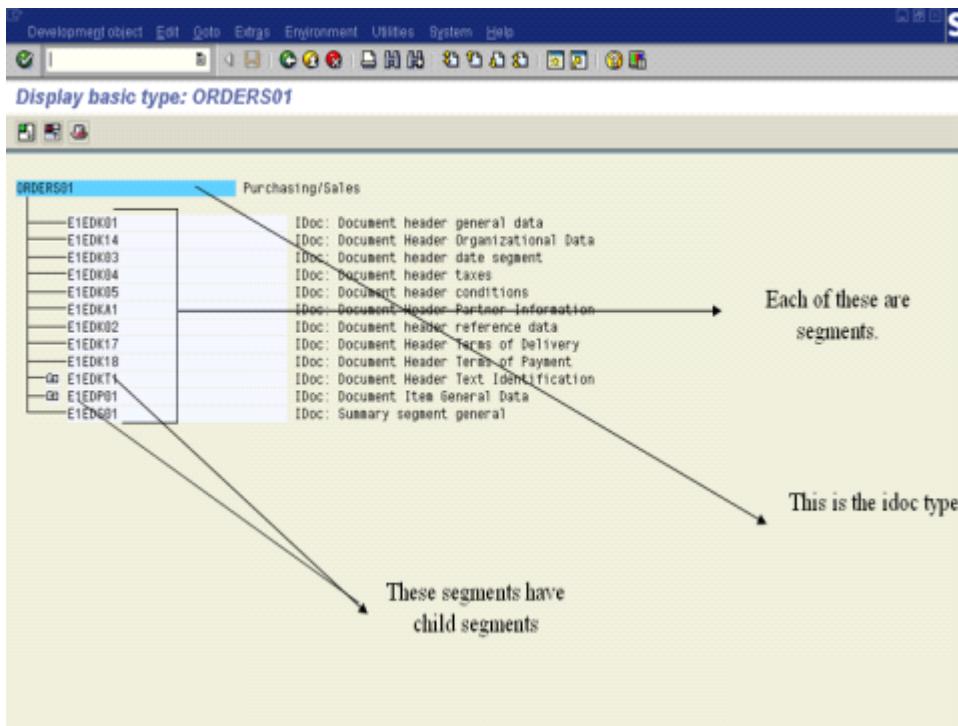
Structure of an IDOC



The I doc structure consists of 3 parts -

1. The administration part(**Control Record**)- which has the type of idoc, message type, the current status, the sender, receiver etc. This is referred to as the Control record.
2. The application data (**Data Record**) - Which contains the data. These are called the data records/**segments**.
3. The Status information (**Status Record**)- These give you information about the various stages the idoc has passed through.

You can view an I-DOC using transaction **WE02 or WE05**



As seen the screenshot above IDOC record has three parts Control, Data and Status. Let's look into them in detail - **Control Record**

- All control record data is stored in EDIDC table. The key to this table is the IDOC Number
- It contains information like IDOC number, the direction(inbound/outbound), sender, recipient information, channel it is using, which port it is using etc.
- Direction '1' indicates outbound, '2' indicates inbound.

Data Record

- Data record contains application data like employee header info, weekly details, client details etc
- All data record data is stored in EDID2 to EDID4 tables and EDIDD is a structure where you can see its components.
- It contains data like the idoc number, name and number of the segment in the idoc, the hierarchy and the data
- The actual data is stored as a string in a field called SDATA, which is a 1000 char long field.

Status Record

- Status record is attached to an I-DOC at every milestone or when it encounter errors.
- All status record data is stored in EDIDS table.
- Statuses 1-42 are for outbound while 50-75 for inbound

IDOC Types

An I DOC Type, (Basic) defines the structure and format of the business document that is to be exchanged. An IDOC is an instance of an IDOC Type , just like the concept of variables and variables types in programming languages. You can define IDOC types using **WE30**

What is a Segment?

A Segment defines the format and structure of a **data record** in I-DOC. Segments are reusable components.

For each segment SAP creates

- Segment Type (version independent)

- [Segment Definition \(version dependent\)](#)
- [Segment Documentation](#)
The last 3 characters is the version of the segment

Definitions keep changing as per the version but the segment type remains the same.

Transaction:WE31

Development segments: Display segment definition E2EDKT1002

The screenshot shows the SAP transaction WE31 interface. At the top, there is a header bar with the title "Development segments: Display segment definition E2EDKT1002". Below the header, there is a form with the following fields:

Segment type	E1EDKT1	<input checked="" type="checkbox"/> Qualified segment
Short Description	IDoc: Document Header Text Identification	
Segm. definition	E2EDKT1002	<input checked="" type="checkbox"/> Released
Last changed by	SAP	

Below these fields is a table containing the segment structure:

Po...	Field Name	Data element	ISO c...	Ex...
1	TDID	EDI4451_A	<input type="checkbox"/>	4
2	TSSPRAS	EDI3453_A	<input type="checkbox"/>	3
3	TSSPRAS_ISO	LAIISO	<input checked="" type="checkbox"/>	2
4	TDOBJECT	TDOBJECT	<input type="checkbox"/>	10
5	TDOBNAME	TDOBNAME	<input type="checkbox"/>	70

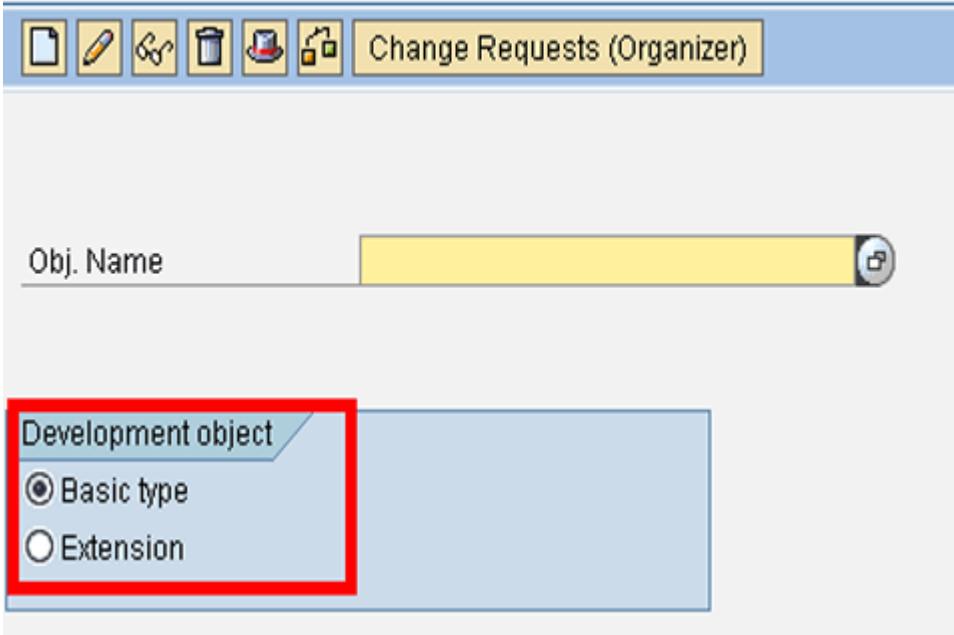
What is Extension IDOC type?

An IDOC is of 2 types:-

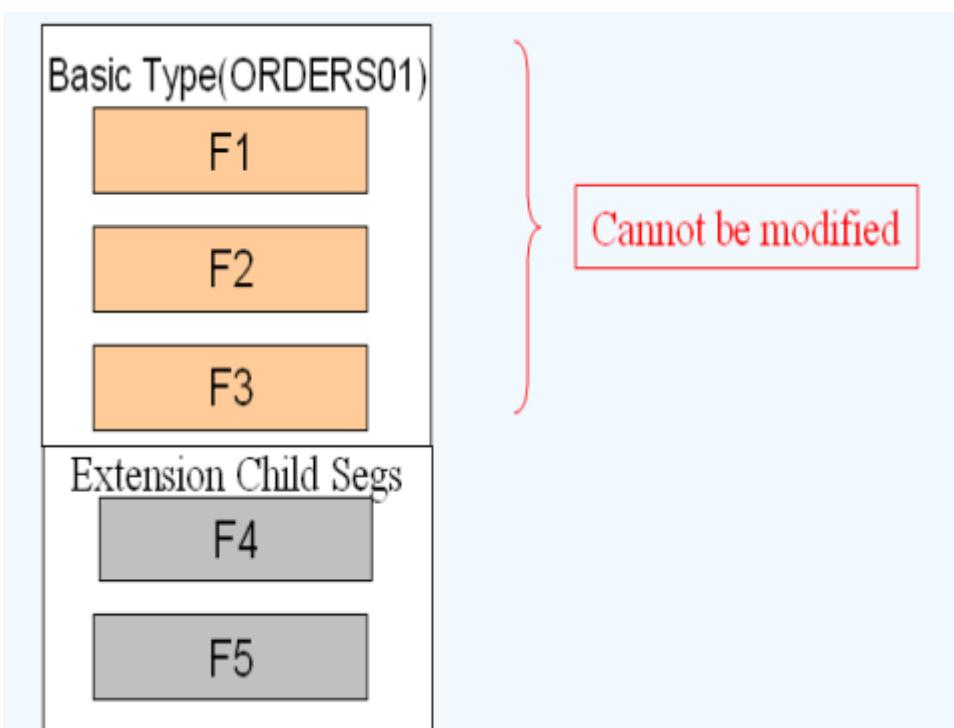


4. [Basic](#)
5. [Extension](#)

Develop IDoc Types: Initial Screen



SAP provides many pre-defined Basic IDOC Types which **can not be modified**. In case you want to add more data to these restricted basic type you may use an extension type. Most of the times you will **NOT** use extension.



Documentation

Each IDOC are thoroughly documented in transaction **WE60**

Display Basic type: ORDERS01

The screenshot shows the SAP Help content for the basic type ORDERS01. It details the structure of the IDOC, including segments E1EDK01, E1EDK14, and E1EDK03, their definitions, and usage. The content is organized into sections: Overview, Segment E1EDK01, Segment E1EDK14, and Segment E1EDK03.

ORDERS01

- Purchasing/Sales
- Basic type Released **●** Released from Release **30A** Display for Release **46C**
- Version 3 of IDoc record types IDoc record types for SAP Release 4.0

E1EDK01

- ■ IDoc: Document header general data
- Segment definition **E2EDK01005** Released from Release **45B**
- mandatory min./max. **0000000001/0000000001**
- Use
- The segment includes the header data.

E1EDK14

- ■ IDoc: Document Header Organizational Data
- Segment definition **E2EDK14** Released from Release **30A**
- Optional min./max. **0000000001/0000000012**
- Use
- The segment includes organizational data for the respective application.
- Example
- In Purchasing: Purchasing organization and purchasing group.
In Sales: Sales organization, distribution channel and division.

E1EDK03

- ■ IDoc: Document header date segment
- Segment definition **E2EDK03** Released from Release **30A**
- Optional min./max. **0000000001/0000000010**
- Use
- The segment includes dates such as the document creation date and the requested delivery date.

Message Type

A message represents a specific type of document that is transmitted between two partners Ex. Orders, orders responses, invoices etc

An idoc type can be associated with many message types

Also, a message type can be associated with different idoc types. Transaction **WE81**

The screenshot shows the SAP transaction WE81, titled "Change View 'EDI: Logical Message Types': Overview". It displays a list of logical message types, each with a short text description. The table has two columns: "Message Type" and "Short text".

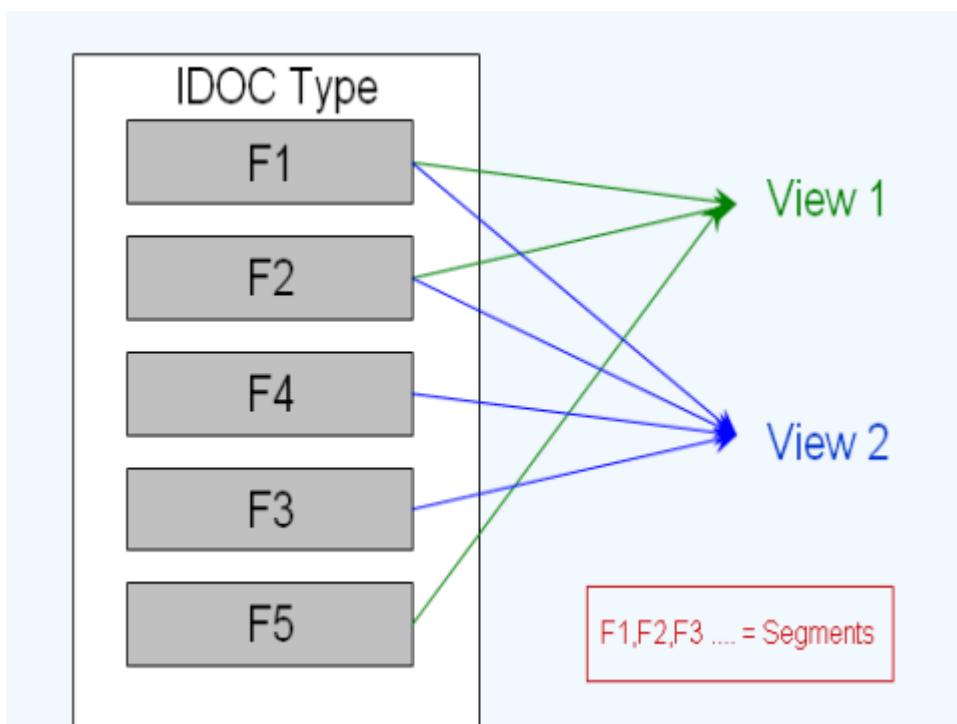
Message Type	Short text
/DSD/HH_CONTROL	DSD Control Output (eod, del, drq, drp, eou)
/DSD/HH_CREDITDATA	DSD Credit Exposure and Credit ILmit
/DSD/HH_CUSTMASTEXT	DSD Customer Master Additions
/DSD/HH_DRIVERMAST	DSD Driver Master Data
/DSD/HH_LOAD_DELIVERY	DSD Load Delivery
/DSD/HH_MATERIALMAST	DSD Material Master Additions
/DSD/HH_PAYMENTMASTEXT	DSD Payment Term Enhancements
/DSD/HH_ROUTE_ITINERARY	DSD Sales Call List / Itinerary
/DSD/HH_TXTDRV	DSD Definitions of the Driver Texts
/DSD/HH_VEHICMAST	DSD Vehicle Master Data
/DSD/ROUTEACCOUNT_CCOCIO	RA: Create Check-In/Check-Out Data
/DSD/ROUTEACCOUNT_CCTRDTO	RA: Transfer General Control Data "Enterprise"
/DSD/ROUTEACCOUNT_CCUSVIO	RA: Create Customer Visit Data
/DSD/ROUTEACCOUNT_CCUSVI2	RA: Create Customer Visit Data
/DSD/ROUTEACCOUNT_CDELFU0	RA: Create Delivery Execution Data
/DSD/ROUTEACCOUNT_GENCAS0	RA: Create Payment Data

IDOC Views

An IDOC type can be used for more than one message type, which results in IDOCs containing

[more fields than required for a particular message type.](#)

[IDOC views are used to improve performance in generating IDOCs to ensure only the relevant segments are filled with data. IDOC Views are important only for Outbound Processing.](#)



[Partner Profiles](#)

[A partner is defined as a business partner with whom you conduct business and exchange documents](#)

[In the partner profile of a partner that we exchange Idocs with, we maintain the parameters that are necessary for exchanging the data. The transaction used is WE20.](#)

[Partner profiles](#)

The screenshot shows the SAP transaction WE20 interface for managing partner profiles. The left pane displays a tree view of partner types: Partner Profiles, Partner Type B (Bank), Partner Type BP (Benefits provider), Partner Type GP (Business Partner), Partner Type KU (Customer), Partner Type LI (Vendor), Partner Type LS (Logical system), and Partner Type US (User). The 'Partner no.' field is set to 1000005 and the 'Partn.Type' field is set to LI (Vendor). The right pane shows detailed settings for Partner Type LI, including 'Post processing: permitted agent' and 'Classification' tabs. Under 'Post processing: permitted agent', the 'Typ' field is US, 'Agent' field is MOPALE01, and 'User' field is MOPALE01. The 'Lang.' field is EN (English). Below this, the 'Outbound params.' section contains a table with columns 'Partner Role', 'Message type', 'Message va...', 'MessageFu...', and 'Test'. The first row shows 'VN' in 'Partner Role' and 'ORDERS' in 'Message type'. At the bottom of the screen, there are several SAP navigation icons.

[Port](#)

[The port defines the technical characteristics of the connection between your SAP system and](#)

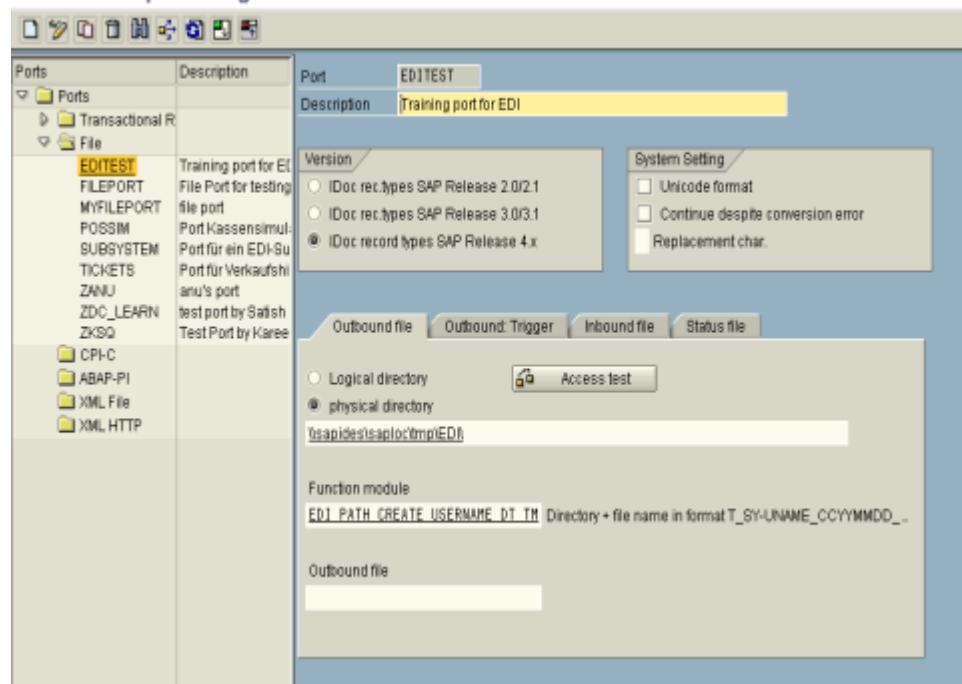
the other system you want to transfer data with (subsystem). The port defines the medium in which data is exchanged between the 2 systems.

There are different types of ports. The 2 most commonly used are the **TRFC ports** used in ALE and **File** ports which EDI uses.

For TRFC ports we have to give the name of the logical destination created using **SM59**.

When using file port you can specify the directory where the IDOC file should be placed. The other system or the middleware will pick up the file from here. The Function module can be used to generate a file name for the idoc. While Testing you can use "Outbound file" to specify a constant file name. The tab "outbound trigger" can be used to supply information if we want to trigger some processing on the subsystem when an idoc is created at this location. We have to specify the command file name and the directory which has to be run.

Ports in IDoc processing



This is so CONFUSING!

Let's understand the process of creating an IDOC with an example -

- Whenever a Purchase Order (PO) is created we want to send the IDOC to a vendor.
- The PO is sent in the form of an IDOC to the vendor (partner). That partner has to be EDI enabled in that system. SAP should realize that it could send doc to this vendor electronically.
- The PO sent as an outbound idoc by the customer will be inbound idoc for the vendor. The SAP system on the vendor's side can process this to create an application document (a sales order) on their system.
- Quotation, RFQ, PO, SO, Invoice, delivery note etc are some of the commonly exchanged documents through IDOC

The process of data transfer out of your SAP system is called the **Outbound process**, while that of data moving into your SAP system is called **Inbound process**. As a developer or a consultant who will be involved in setting up these processes for your organization. Here are the steps how to set them up-

The Outbound Process

Steps Involved -

6. [Create segments\(WE31\)](#)
7. [Create an idoc type\(WE30\)](#)
8. [Create a message type \(WE81\)](#)
9. [Associate a message type to idoc type\(WE82\)](#)
10. [Create a port\(WE21\)](#)
11. [If you are going to use the message control method to trigger idocs then create the function module for creating the idoc and associate the function module to an outbound process code](#)
12. [Otherwise, create the function module or stand-alone program which will create the idoc](#)
13. [Create a partner profile\(WE20\) with the necessary information in the outbound parameters for the partner you want to exchange the idoc with. Trigger the idoc.](#)

[The Inbound Process](#)

Steps Involved-

14. [Creation of basic Idoc type \(Transaction WE30\)](#)
15. [Creating message type \(Transaction WE81\)](#)
16. [Associating the Message type to basic Idoc type \(Transaction WE82\)](#)
17. [Create the function module for processing the idoc](#)
18. [Define the function module characteristics \(BD51\)](#)
19. [Allocate the inbound function module to the message type\(WE57\)](#)
20. [Defining process code \(Transaction WE42\)](#)
21. [Creation of partner profile \(Transaction WE20\)](#)

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Inserted from <<https://www.guru99.com/all-about-idocdefinition-architecture-implementation.html>>

IDOC

Monday, March 06, 2017 2:01 PM

EDIDC (IDOC control record)

EDIDD / EDID4 (IDOC Data record) -> this is a structure

EDIDD_OLD (IDOC Data record **table**)

EDIDS (Status record of IDOC)

WE05 or WE02 - IDOC report transaction

Program Edit Goto System Help

IDoc List

Default Additional EDI

Created At	00:00:00	to	24:00:00				
Created On	15.08.2012	to	15.08.2014				
Last Changed at	00:00:00	to	24:00:00				
Last Changed on		to					
Direction							
IDoc Number		to					
Current Status		to					
Basic Type		to					
Enhancement		to					
Logical Message		to					
Message Variant		to					
Message Function		to					
Partner Port		to					
Partner Number		to					
Partner Type		to					
Partner Role		to					

WE20 - partner profile

We21 - ports in Idoc processing

[BD10 - send idoc](#)

[BD11 - receive idoc](#)

BD87 - check error idocs

WE19 - test tool for idoc

Test tool for IDoc processing

Standard inbound Inbound function module Inbound file Standard outbound processing

EDIDC 8000000000000001001630A 53ORDER5012SAP130	LI0000060000	ARFC	KU0000020001
EIEDK01 PTE 0.00150 0002	0145001 009001 013NB 0111000 00219950628 01219950627 01119950627 AG 0000020001 LF 0000060000 WE Harley	NB 4500000011	
EIEDK02 0014500000011 19950627150619	001CIFPorto		
EIEDK03 00114 3.000	00230 2.000		
EIEDK04 00345			
EIEDP01 00010 0 10.000 PCE10.000 PCE 67000.00 1 670000.00		2.500	KGM
EIEDP19 002M10000			
EIEDP19 001R10000 Harley leather jacket	001CIFPorto		
EIEDP17			
EIEDS01 002670000.00 PTE			

BD20 - process inbound idocs (foreground and background)

We09 - find corresponding idoc in target system

IDoc Search for Business Content

Data Source...

Criteria for Search in Control Records

Created At	00:00:00	to	24:00:00	<input type="button" value="..."/>
Created On	31.08.2014	to	31.08.2014	<input type="button" value="..."/>
Last Changed At	00:00:00	to	24:00:00	<input type="button" value="..."/>
Last Changed On		to		<input type="button" value="..."/>

Direction (1=Outb., 2=Inb.)

1	to	<input type="button" value="..."/>
---	----	------------------------------------

IDoc Number

<input type="text"/>	to	<input type="text"/>	<input type="button" value="..."/>
----------------------	----	----------------------	------------------------------------

Current Status

<input type="text"/>	to	<input type="text"/>	<input type="button" value="..."/>
----------------------	----	----------------------	------------------------------------

Basic Type

<input type="text"/>	to	<input type="text"/>	<input type="button" value="..."/>
----------------------	----	----------------------	------------------------------------

Enhancement

<input type="text"/>	to	<input type="text"/>	<input type="button" value="..."/>
----------------------	----	----------------------	------------------------------------

Logical Message

<input type="text"/>	to	<input type="text"/>	<input type="button" value="..."/>
----------------------	----	----------------------	------------------------------------

Port of Sender

<input type="text"/>	to	<input type="text"/>	<input type="button" value="..."/>
----------------------	----	----------------------	------------------------------------

Partner Type of Sender

<input type="text"/>	to	<input type="text"/>	<input type="button" value="..."/>
----------------------	----	----------------------	------------------------------------

Partner Number of Sender

<input type="text"/>	to	<input type="text"/>	<input type="button" value="..."/>
----------------------	----	----------------------	------------------------------------

Port of Receiver

<input type="text"/>	to	<input type="text"/>	<input type="button" value="..."/>
----------------------	----	----------------------	------------------------------------

Partner Type of Receiver

<input type="text"/>	to	<input type="text"/>	<input type="button" value="..."/>
----------------------	----	----------------------	------------------------------------

Partner Number of Receiver

<input type="text"/>	to	<input type="text"/>	<input type="button" value="..."/>
----------------------	----	----------------------	------------------------------------

Fast Search Mode

Max. One Segment per IDoc

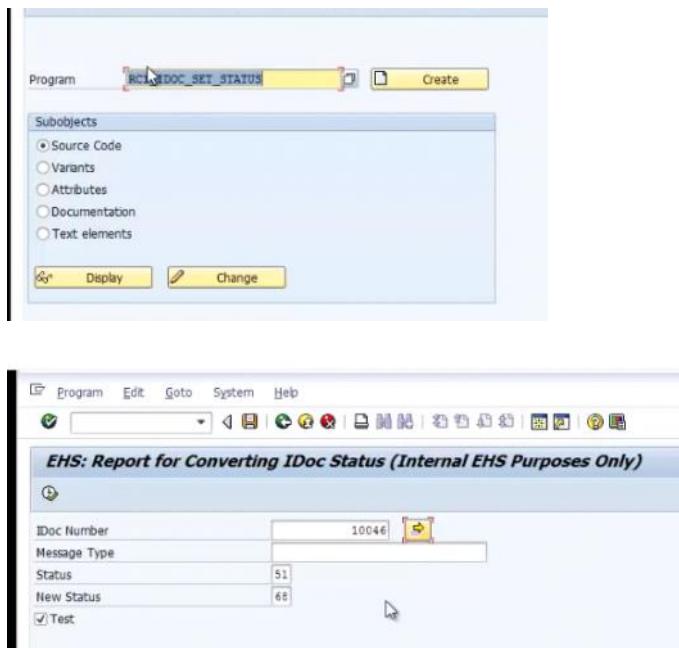
Criteria for Search in Data Records

Search in Segment ...

Search in Field ...

for Value ...

Change status of idoc



IDoc Basics For Functional Consultants | SAP Blogs

Monday, March 06, 2017 3:14 PM

<https://blogs.sap.com/2012/12/31/idoc-basics-for-functional-consultants/>

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IDoc Basics For Functional Consultants

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ABSTRACT

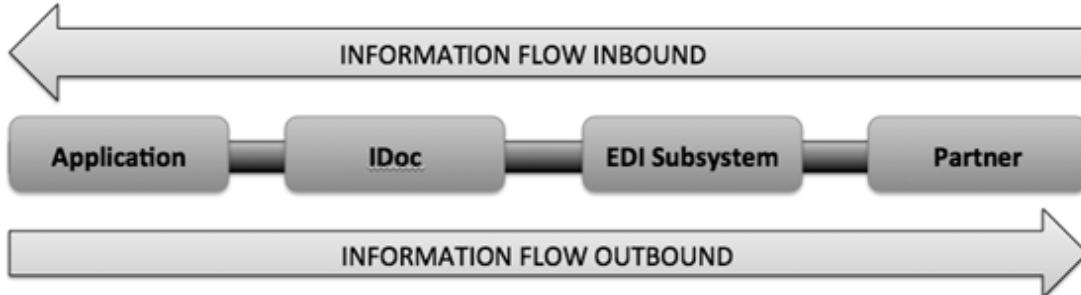
Today IDocs are used in most SAP applications for transfer of message(information) from SAP system to other systems and vice versa. Though lot of documentation is available on IDocs it is difficult for a functional consultant to understand such documents due to their technical nature. While a functional consultant is not expected to know the IDoc concepts in its entirety, an effort has been made to capture the minimum necessary information that one needs to be aware of in order to handle project/support issues on IDocs.

OVERVIEW

IDoc is an SAP object that carries data of a business transaction from one system to another in the form of electronic message. IDoc is an acronym for **Intermediate Document**. The purpose of an IDoc is to transfer data or information from SAP to other systems and vice versa. The transfer from SAP to non-SAP system is done via EDI (Electronic Data Interchange) subsystems whereas for transfer between two SAP systems, ALE is used.

IDoc can be triggered in SAP system or in EDI subsystem. This depends on the direction in which IDoc is sent and is called as Inbound IDoc and Outbound IDoc accordingly. In case of outbound flow, IDoc is triggered in SAP through document message control which is then sent to EDI subsystem. EDI converts the data from IDoc into XML or equivalent format and then sends the data to partner system through Internet.

For inbound flow, EDI converts partner data and IDoc is created in SAP. After successful processing of this IDoc, Application Document is posted in SAP.



EDI STANDARDS AND IDOC

"EDI is electronic exchange of business document between the computer systems of business partners, using a standard format over a communication network". EDI stands for **Electronic Data Interchange**.

For transmission of information electronically, two widely used standards are ANSI ASC X12 and EDIFACT. ANSI ASC X12 is a committee formed by representatives of major organizations, government bodies and EDI software companies which defines standards and guidelines for information interchange over EDI. UN/EDIFACT stands for United Nations EDI for Administration, commerce and Transport and was formed in 1985 using ANSI X12 and UNTDI (United Nations Trade Data interchange) as base standards. ANSI X12 describes business document as transactions and each transaction is represented by three digit number e.g. 850 – Purchase Order, 855 –

Purchase Order Acknowledgement. EDIFACT describes business document as messages, represented by standard names e.g. ORDERS for purchase order.

IDOC TERMINOLOGIES

IDOC (BASIC) TYPE

IDoc Types are based on the EDI standards and mostly on EDIFACT standards. Basic Types (or IDoc Type) defines the structure of an IDoc. Each basic type describes standard IDoc segments, format of data fields and their size. Basic Type also defines number of segments and fields in an IDoc. All the fields that are necessary for transmission of message for a particular business transaction are mapped in different segments. It also defines the structure and relationship of IDoc segments along with mandatory and optional segments.

Basic Type: ORDERS05

ORDERS05	Purchasing/Sales
E1EDK01	IDoc : Document Header General Data
E1EDK14	IDoc : Document Header Organizational Data
E1EDK03	IDoc : Document Header Date Segment
E1EDK04	IDoc : Document Header Taxes
E1EDK05	IDoc : Document Header Conditions
+ E1EDKA1	IDoc : Document Header Partner Information
E1EDK18	IDoc : Document Header Terms of Payment
- E1EDP01	IDoc : Document Item General Data
E1EDP02	IDoc : Document Item General Data
E1CUREF	CU: Reference order item/ instance in configuration
E1ADDI1	IDoc Additionals
E1EDP03	IDoc : Document Item Date Segment
E1EDP04	IDoc : Document Item Taxes
E1EDP05	IDoc : Document Item Conditions
E1EDP20	IDoc Schedule Lines

IDOC EXTENSION

Basic type contains all the standard fields that are necessary for carrying out a business transaction. However, if any additional values are to be sent to the partner then we can make use of the IDoc Extension feature. IDoc extension is extension of basic type and contains additional custom IDoc segments and fields that are not available in standard basic type.

IDOC SEGMENTS

IDoc segments contain the actual data that is **sent to** or **received from** a partner. These segments contain the actual values that are sent as part of IDoc transmission.

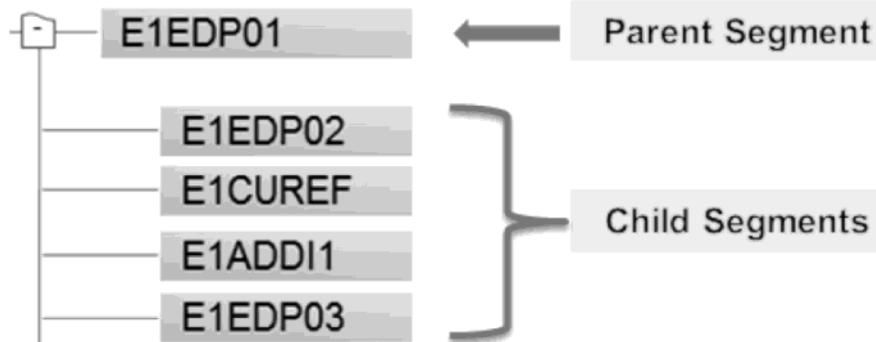
E1EDP02

IDOC Segment

Field Name	Field Value
WMENG	1
AMENG	0
EDATU	20120909

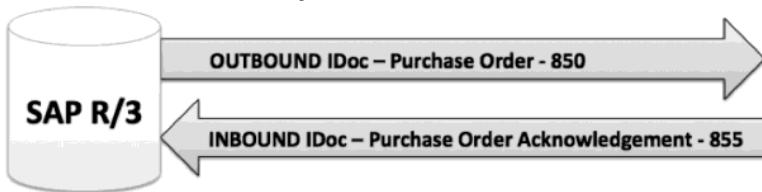
PARENT AND CHILD SEGMENTS

IDoc segment is termed as Parent segment if it contains its own segments. The dependent segments are called as child segments.



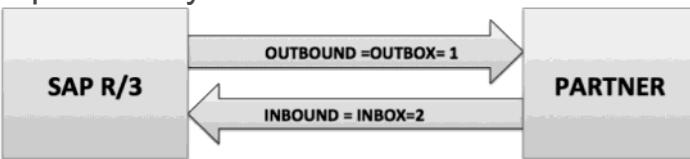
INBOUND/OUTBOUND IDOCS

IDocs sent outside the system are termed as Outbound IDocs and the ones that are received into the system, are called as Inbound IDocs.



IDOC DIRECTION

This signifies the direction in which information is sent and is similar to terminology used in mails. If information is sent outside the system then the direction is outbox when it is received into the system then direction is inbox. In SAP Outbox direction is represented by "1" i.e. outbox and Inbox direction is represented by "2".



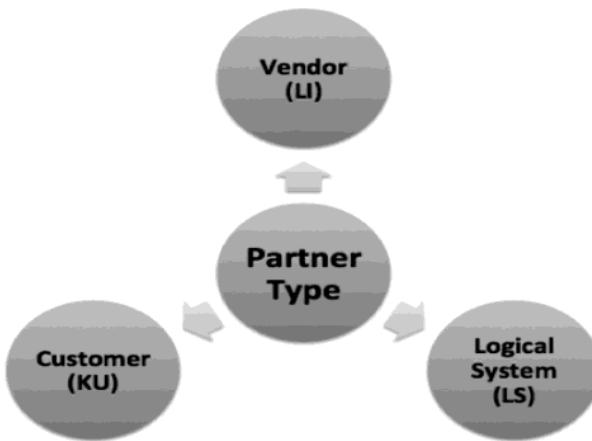
PARTNER

Partner is the Business Partner with which the exchange of information is to take place using IDoc. It can be a vendor or customer or any other system. Depending on the direction of information in which the information is sent it plays a role of either a "sending partner" or a "receiving partner".



PARTNER TYPE

Partner type/role is used to identify partners within the sap systems. Partner type is KU for customer, LI for vendor and LS for Logical System.



MESSAGE TYPE

IDoc processing involves transmission or receipt of document in the form of a message, each of which represents a document in SAP. These documents can be Order, Shipment Confirmation, Advance Shipping Notification, Goods Receipt, or Invoice. Message type is associated with Basic IDoc Type (Basic Type) and defines the kind of data or document that is exchanged with the partner.

PROCESS CODE

The process code contains the details of the Function Module that are used for IDoc processing. Message Type can be linked to the Process code.

PORT

IDoc Port contains the information about the way data is sent between the source or target system. The type of port defines the information contained within the port. For port type “Internet” Port will contain IP address of the target system. For port type “file”, directory or file name information is maintained. “tRFC” port contains information about the RFC destination of the target system. For IDoc transmission using ALE “tRFC” ports are used.

PARTNER PROFILE MAINTENANCE

PARTNER PROFILE (WE20)

Partner profile must be maintained for all the business partners to whom we want to send or receive the IDocs. The TCODE for maintaining the partner profile is WE20.

Partner profiles

The screenshot shows a SAP interface for managing partner profiles. At the top is a toolbar with icons for file operations like New, Open, Save, Print, and Close. Below the toolbar is a header bar with tabs: 'Partner' and 'Description'. A tree view under the 'Partner' tab shows a folder named 'Partner Profiles' expanded, revealing several sub-folders and their descriptions:

Partner Type	Description
Partner Type B	Bank
Partner Type BP	Benefits provider
Partner Type GP	Business Partner
Partner Type KU	Customer
Partner Type LI	Vendor
Partner Type LS	Logical system
Partner Type US	User (first 10 characters, no

Double clicking on the Partner will show the following screen:

The screenshot shows a detailed view of a partner profile. At the top, there are fields for 'Partner No.' (0XXXXXXC), 'Partn.Type' (LI), and 'Category' (XYZ Technology). Below this is a section titled 'Post processing: permitted agent' containing fields for 'Ty.' (S), 'Position' (EDI Technical Errors), 'Agent' (500XXXX), and 'Lang.' (EN English).

Below this is a section titled 'Outbound parmrts.' containing a table of outbound message mappings:

Partner Ro...	Message Type	Message va...	MessageFu...	Test
VN	ORDERS			<input type="checkbox"/>
VN	ORDCHG			<input type="checkbox"/>
				<input type="checkbox"/>
				<input type="checkbox"/>
				<input type="checkbox"/>

At the bottom of this section are navigation buttons (Back, Forward, Search, etc.) and a toolbar.

Below this is a section titled 'Inbound parmrts.' containing a table of inbound message mappings:

Partner Ro...	Message Type	Message va...	MessageFu...	Test
VN	DESADV			<input type="checkbox"/>
VN	INVOIC			<input type="checkbox"/>
				<input type="checkbox"/>
				<input type="checkbox"/>
				<input type="checkbox"/>

At the bottom of this section are navigation buttons (Back, Forward, Search, etc.) and a toolbar.

Partner profile contains parameters for Inbound and Outbound processing of IDocs. For each message type we can maintain, inbound/outbound options, message control, post processing options and contact information within Inbound and outbound parameters.

OUTBOUND OPTIONS (OUTBOUND PARAMETERS)

This involves sender/receiver port, Output mode and relation to IDoc type i.e. Basic Type and extension.

Partner profiles: Outbound parameters

The screenshot shows the SAP Fiori interface for configuring Partner profiles. The title bar says "Partner profiles: Outbound parameters". The main area displays various settings:

- Partner No.**: 0XXXXXXC, **XYZ Technology**
- Partn.Type**: LI, **Vendor**
- Partner Role**: VN, **Vendor**
- Message Type**: ORDERS, **Purchase order / order**
- Message code**: (empty)
- Message function**: (empty), Test
- Outbound Options**, **Message Control**, **Post Processing: Permitted Agent** tabs are visible at the bottom.
- Receiver port**: A00000XX, **Transactional RFC**
- Pack. Size**: 250
- Queue Processing** checkbox is unchecked.
- Output Mode** section:
 - Transfer IDoc Immed.
 - Collect IDocs
 Output Mode 4
- IDoc Type** section:
 - Basic type**: ORDERS01, **Purchasing/Sales**
 - Extension**: ZXXXXX, **IDoc for Outbound Purchase Or**
 - View**: (empty)
 - Cancel Processing After Syntax Error
 - Seg. release in IDoc type**: (empty)
 - Segment Appl. Rel.**: (empty)

MESSAGE CONTROL (OUTBOUND PARAMETERS)

This contains application for which IDoc will be created e.g. EF for Purchase order, the message type of the application that will trigger the IDoc and Process Code that will convert SAP document to an IDoc. For example, if PO is to be sent to the Vendor AXXXXZ, then in the outbound option of the partner AXXXXZ we need to maintain the message type ZXX1 and link it to the Process Code ME10. So when message type ZXX1 is triggered in the PO then an IDoc will be created for the partner vendor AXXXXZ.

Process Code is linked to the Function Module in SAP that converts application data into an IDoc. Standard function modules are provided by SAP for this conversion however these can also be customized as per business needs.

Outbound Options | Message Control | Post Processing: Permitted Agent

	Application:	EF : Purchase Order
	Message Type:	ZXX1: PO for Vendor
	Process Code:	ME10 : ORDERS: Purchase order

Application	Message type	Process code	Change message
EF	ZXX1	ME10	<input type="checkbox"/>

Change Message Indicator indicates whether the IDoc is sent as a notification of change. For example, Purchase Order change messages are sent to vendor using EDI standard message type 860.

Outbound Options | Message Control | Post Processing: Permitted Agent

	Application:	EF : Purchase Order
	Message Type:	ZXX1: PO for Vendor
	Process Code:	ME10

Text	Application	Message type	Process code	Change message
<input checked="" type="checkbox"/>	EF	ZXX1	ME10	<input type="checkbox"/>
<input checked="" type="checkbox"/>	EF	ZXX1	ME10	<input checked="" type="checkbox"/>

Separate message type should be triggered in the purchase order for PO change. Additional line with change message type must be added in the Message control tab with **change message** indicator on.

Display View "Process Codes, Outbound": Details

					Var. List	
Process code	ME10					
Description	ORDERS: Purchase order					
Function module	<u>IDOC OUTPUT ORDERS</u>					
Option ALE-Service/inb. procg						
<input checked="" type="radio"/> Processing with ALE service						
<input type="radio"/> Processing w/o ALE service						
<input type="radio"/> Processing w. trigger (inbound)						
Version of function module						
<input checked="" type="radio"/> Processing with function module version 3.0						
<input type="radio"/> Processing with function module version 2.2						

INBOUND OPTIONS (INBOUND PARAMETERS)

For inbound options process code is maintained in the Inbound screen only. IDoc processing can be triggered by background program and triggered immediately.

Inbound options	Post processing: permitted agent	Telephony
Process code	DESA	Delivery advice (DESADV with D)
<input checked="" type="checkbox"/> Cancel Processing After Syntax Error		
Processing by Function Module		
<input checked="" type="radio"/> Trigger by background program		
<input type="radio"/> Trigger Immediately		

POST PROCESSING (INBOUND/OUTBOUND PARAMETERS)

In the post processing option we can maintain the workflow details of the users or positions to which an error notification will be sent if an IDoc processing fails.

Outbound Options	Message Control	Post Processing: Permitted Agent						
Ty.	S	Position						
Agent	5XXXXX1	Test User						
Lang.	EN	English						

TELEPHONY (INBOUND/OUTBOUND PARAMETERS)

We can also maintain the contact details in the telephony option.

Post Processing: Permitted Agent | **Telephony** | EDI Standard

Telephone No.

Country Key

Name

Company

EDI STANDARD (OUTBOUND PARAMETERS)

EDI standard screen contains the details of the Standard EDI terminology used for the IDoc transmission.

Post Processing: Permitted Agent | Telephony | **EDI Standard**

EDI Standard

Message type **850**

Version **004010**

For example, Message Type **850** is an EDI standard for Purchase Order IDoc and is linked to IDoc Message Type **Orders**.

IDOC STRUCTURE AND RECORDS

STRUCTURE

IDoc structure is divided into Control Record, Data Records and Status records.

IDoc display	
▼ IDoc 000000XXXXXXXXX1	
Control Rec.	
▶ Data records	Total number: 000051
▶ Status records	

These records are stored in the transparent tables in SAP. These are EDIDC, EDID4 and EDIDS.

CONTROL RECORD (EDIDC)

It contains information such as IDoc number, direction, IDoc Status, Basic Type, Message Type, Partner (Sender/Receiver), date and time of creation/update, Interchange File or ISA number,etc.



Display Control Record

IDoc Display

IDoc number XXXXXXXXX1
Direction 2 ← Inbound
Status 53 COO Application document posted

Typinfo Partner Techn.info Adressinfo Details

IDoc type information

Basic type ORDERS04 Purchasing/Sales
Extension ZXXXXX1 Extension for Purchase Order
IDoc Type

Logical message description

Message Type ORDERS Purchase order / order
Message variant
Message function AU
 Test Flag

Typinfo Partner Techn.info Adressinfo Details

Recipient information

Port SAP TEST Test Inbound Port
Partner Number RECEIVER
Partn.Type LS Logical system
Function

Sender information

Port SAPTEST2
Partner number SENDER
Partn.Type LS Logical system
Partner Role

[Typinfo](#)[Partner](#)[Techn.info](#)[Adressinfo](#)[Details](#)**Info about IDoc**

SAP Release

702

Output Mode

Serialization

1XXXXXXXXX1

Time of creation

Date

19.08.2012

Time

00:22:31

Last database update

Date

19.08.2012

Time

04:44:40

[Typinfo](#)[Partner](#)[Techn.info](#)[Adressinfo](#)[Details](#)**References**

Interchange File

ABCDEFGH

Message Group

ABCDEFGH

Reference

0001

Identification

EDI Options

Standard

U

Version

00401

Message Type

DATA RECORD (EDID4)

It contains the details of the IDoc segments.

IDoc display	
▽	IDoc 000000XXXXXXXXX1
□	Control Rec.
▽	□ Data records Total number: 000009
□	E1EDK01 Segment 000001
□	E1EDK02 001 Segment 000002
□	E1EDK02 002 Segment 000003
▽	□ E1EDP01 Segment 000004
□	E1EDP02 001 Segment 000005
□	E1EDP02 002 Segment 000006
□	E1EDP20 Segment 000007
□	E1EDP19 001 Segment 000008
□	E1EDP19 002 Segment 000009
▷	□ Status records

IDoc segment has fields that contain the data necessary for posting the documents.

Data records		Total number: 000009	CURRENT STATUS	
□	E1EDK01	Segment 000001	Basic type	ORDERS01
□	E1EDK02 001	Segment 000002	Extension	
□	E1EDK02 002	Segment 000003	Message type	ORDRSP
▽	□ E1EDP01	Segment 000004	Partner No.	SENDER
□	E1EDP02 001	Segment 000005	Partn.Type	LI
□	E1EDP02 002	Segment 000006	Port	AXXXXXXX1
□	E1EDP20	Segment 000007	Content of selected segment	
□	E1EDP19 001	Segment 000008		
□	E1EDP19 002	Segment 000009		
▷	□ Status records			

Fld name	Fld cont.
ACTION	004
BELNR	0XXXXXXXX1

IDoc number	XXXXXXXX1	
Segment type	E1EDK01	IDoc: Document header general data
Number	1	
No. higher segment	0	Hierarchy level 1

Field name	Field contents	Short Description
ACTION	004 : Changes in header and items	Action code for the whole EDI message
BELNR	XXXXXXXX1	IDOC document number

IDoc display																																							
<ul style="list-style-type: none"> ✓ IDoc 000000XXXXXXX1 <ul style="list-style-type: none"> □ Control Rec. ▼ Data records <ul style="list-style-type: none"> □ E1EDK01 Segment 000001 □ E1EDK02_001 Segment 000002 □ E1EDK02_002 Segment 000003 ▼ □ E1EDP01 Segment 000004 <ul style="list-style-type: none"> □ E1EDP02_001 Segment 000005 □ E1EDP02_002 Segment 000006 □ E1EDP20 Segment 000007 □ E1EDP19_001 Segment 000008 □ E1EDP19_002 Segment 000009 ▶ □ Status records 																																							
<div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> Technical short info <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Direction</td><td>2</td><td>Inbox</td></tr> <tr><td>Current status</td><td>53</td><td>OOO</td></tr> <tr><td>Basic type</td><td colspan="2">ORDERS01</td></tr> <tr><td>Extension</td><td colspan="2"></td></tr> <tr><td>Message type</td><td colspan="2">ORDRSP</td></tr> <tr><td>Partner No.</td><td colspan="2">SENDER</td></tr> <tr><td>Partn.Type</td><td colspan="2">LI</td></tr> <tr><td>Port</td><td colspan="2">AXXXXXXX1</td></tr> </table> <p>Content of selected segment</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr><th>Flid name</th><th>Flid cont.</th></tr> </thead> <tbody> <tr><td>POSEX</td><td>00010</td></tr> <tr><td>ACTION</td><td>002</td></tr> <tr><td>PSTYP</td><td>5</td></tr> <tr><td>KZABS</td><td>X</td></tr> <tr><td>MENGE</td><td>2</td></tr> <tr><td>MENE</td><td>PCE</td></tr> </tbody> </table> </div>		Direction	2	Inbox	Current status	53	OOO	Basic type	ORDERS01		Extension			Message type	ORDRSP		Partner No.	SENDER		Partn.Type	LI		Port	AXXXXXXX1		Flid name	Flid cont.	POSEX	00010	ACTION	002	PSTYP	5	KZABS	X	MENGE	2	MENE	PCE
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Partner No.	SENDER																																						
Partn.Type	LI																																						
Port	AXXXXXXX1																																						
Flid name	Flid cont.																																						
POSEX	00010																																						
ACTION	002																																						
PSTYP	5																																						
KZABS	X																																						
MENGE	2																																						
MENE	PCE																																						

STATUS RECORDS (EDIDS)

IDoc Status defines the processing status of the IDoc. IDoc statuses are used to track the IDoc and its various processing states. Status Numbers represents IDoc status. Current status of the IDoc is present in Control record.

IDoc display	
<ul style="list-style-type: none"> ✓ IDoc 000000XXXXXXX1 <ul style="list-style-type: none"> □ Control Rec. ▶ □ Data records ▼ □ Status records <ul style="list-style-type: none"> ▼ 53 <ul style="list-style-type: none"> □ Purchasing document XXXXXXX1 successfully processed Application document posted ▼ 62 <ul style="list-style-type: none"> □ Direct call started IDoc passed to application ▼ 64 <ul style="list-style-type: none"> □ No filters , No conversion , No version change . IDoc ready to be transferred to application □ 50 <ul style="list-style-type: none"> □ IDoc added 	

Initial Status numbers are 64 for inbound and 03 for outbound. Successful status is 53 for inbound and 16 for outbound IDocs.

SENDING AND RECEIVING IDOCS

TRIGGERING AN OUTBOUND IDOC

Outbound IDocs can be triggered from the output message types of Purchase Orders, deliveries, Material Documents, invoices, etc. The following figure shows that once the output ZXX1 of PO XXXXXXX1 is processed an IDoc “000000XXXXXXX1” is

added/created.

Pur. Order XXXXXXX1

Output

Stat...	Output Type	Description	Medium	Function	Partner	La...
ZXX1	PO FOR VENDOR	6 EDI	MN	VENDOR	EN	

Output Processing analysis for proc. Purchase Order

Type	Message text
<input type="checkbox"/> Object OXXXXXXX1	
<input type="checkbox"/> Output type: PO FOR VENDOR	
<input type="checkbox"/> Processing log for program RSNASTED routine EDI_PROCESSING	
<input type="checkbox"/> IDoc '000000XXXXXXX1' added	

The relationship between the IDoc and the application document can be found in two ways:

1. Relationship tab of IDoc

IDoc Display: 00000XXXXXXX1

Create...

Attachment list A

Private note P

Send

Relationships L

Workflow Total number: 000088

My Objects

Help for object services F

Techr
Direct
Curre
Basic
Extern
Mess

SAP

Service: Relationships

Overview

Detail View

Relationships to IDoc: 000000XXXXXXX1 message type: EXPINV

Role	Document Type	Description	Date	Time
Application Object for Outbound IDoc	Purchasing Doc	XXXXXXXXX1	01.01.2013	01:09:29

2. Relationship tab of Application Document, e.g. PO, SO, Material Document, etc.

NB - Standard PO

Document Overview On

NB NB - Standard PO XXXXXXXX1

The initial status of this IDoc will be 30, which after successful processing will convert into status 16.

IDoc 000000XXXXXXXXX1	
Control Rec.	
Data records	Total number: 000029
Status records	
16	Functional Acknowledgement positive
12	Dispatch OK
06	Translation OK
18	Triggering EDI subsystem OK
03	Data passed to port OK
30	IDoc ready for dispatch (ALE service)
01	IDoc generated

A successful outbound IDoc will pass through all the above statuses in reverse order (01-03-18-06-12-16). Each status represents an IDoc validation step. If an IDoc passes all the validations it would reach status 16. These different validation steps for outbound IDocs are explained below:

01: IDoc generation successful

30: IDoc is ready to be processed by IDoc Processing job

03: IDoc data is passed to the Port

18: IDoc successfully triggered EDI subsystem

06: IDoc data translated to EDI format

12: IDoc is dispatched successfully to the partner

16: Partner has received the IDoc successfully

IDoc can possibly fail at any of the above steps during validation.

RECEIVING AN INBOUND IDOC

The initial status of an inbound IDoc is 64 and successful status is 53.

Different validation steps for inbound IDocs are explained below:

50: IDoc received successfully in the system

64: IDoc is ready to be processed by IDoc processing job

53: Application document created and saved successfully. The document number can be found by expanding the status node 53

IDoc display	
IDoc 000000XXXXXXXXX1	
Control Rec.	
Data records	Total number: 000009
Status records	
53	Application document posted
62	IDoc passed to application
64	IDoc ready to be transferred to application
50	IDoc added

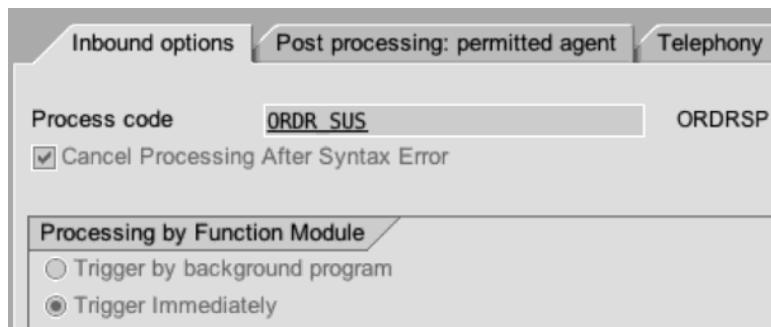
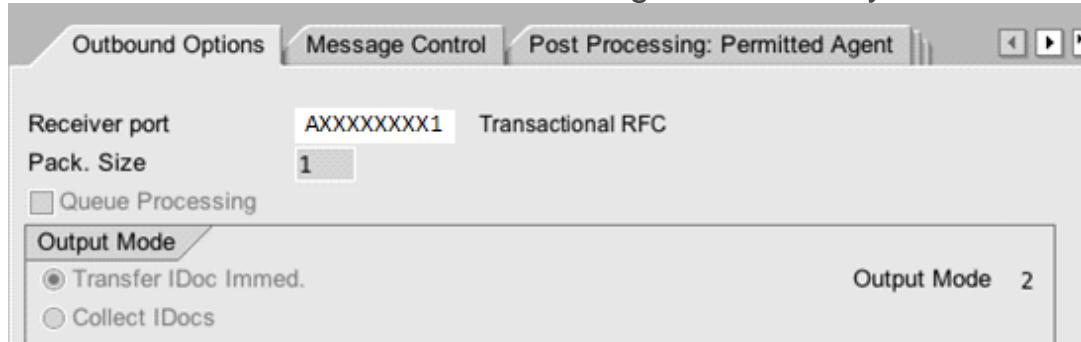


An inbound IDoc goes through all the above statuses in reverse order (50-64-53).

IDOC PROCESSING

AUTOMATIC/IMMEDIATE PROCESSING

In this case, IDoc are processed immediately as they generated or added in the system. The check “Transfer IDoc immediately” is selected in Outbound Options and “Trigger Immediately” is selected in Inbound Option. These checks are generally used when the real time information exchange is necessary between two systems.



MANUAL PROCESSING

IDocs can also be manually processed using the TCODE BD87 in SAP.

PROCESSING VIA BACKGROUND JOB

IDoc processing by background is the most preferred way of processing the IDocs. Following Programs are used from processing the IDocs using background job:

RBDAPP01 – Inbound IDocs

RSEOUT00 – Outbound IDocs

REPROCESSING IDOCS

On the basis of IDoc statuses different programs can be used for reprocessing of failed IDocs. These are given below:

INBOUND/OUTBOUND	STATUS	PROGRAM FOR REPROCESSING
INBOUND	51, 63,	RBDMANI2
	60	RBDSYNER
	69	RBDAGAIE
OUTBOUND	02, 04, 05, 25, and 29	RBDAGAIN
	26	RBDSYNER
	32	RBDAGAIE

TESTING AND EDITING IDOCS

If an IDoc contains error in the data then such IDocs can be edited using TCode WE02 or WE05. When an IDoc is edited the original IDoc information(backup) is saved in a New IDoc under status 70 (for inbound) / 33 (for outbound). These IDoc stays in the system for reference only and cannot be processed. The status of the edited IDoc becomes 69 (inbound) and 32 (outbound). These IDocs can then be processed using BD87 transaction or batch jobs.

Debugging of IDocs can be done using by copying the IDocs using TCode WE19. WE19 is a test tool for Idocs processing. WE19 copies the existing idoc and creates a new IDoc which can then be modified as per testing needs. The newly generated IDoc can also be processed using BD87.

CONVERTING IDOC STATUS

Report RC1_IDOC_SET_STATUS can be used to change the status of IDoc. Status changes are generally needed to move an IDoc to status 68 – no further processing

EHS: Report for Converting the IDoc Status (for Internal)

IDoc Number	<input type="text"/>
Message Type	<input type="text"/>
Status	51
New Status	68
<input checked="" type="checkbox"/> Test	

SEARCHING IDOCS IN SAP

TCODE WE02/WE05: GENERAL SEARCH

IDocs can be displayed in system via TCODE WE02 and WE05. If IDoc number is not known then search can be made on the basis of IDoc Date, Direction, BASIC TYPE, MESSAGE TYPE, and PARTNER NUMBER. Partner number can be found in the Output Messages of the documents.

Default		Additional		EDI	
Created At	00:00:00	to	23:59:59	<input type="button" value=""/>	<input type="button" value=""/>
Created On	25.08.2012	to	25.08.2012	<input type="button" value=""/>	<input type="button" value=""/>
Last Changed at	00:00:00	to	23:59:59	<input type="button" value=""/>	<input type="button" value=""/>
Last Changed on		to		<input type="button" value=""/>	<input type="button" value=""/>
Direction	2			<input type="button" value=""/>	<input type="button" value=""/>
IDoc Number		to		<input type="button" value=""/>	<input type="button" value=""/>
Current Status		to		<input type="button" value=""/>	<input type="button" value=""/>
Basic Type	ORDERS04	to		<input type="button" value=""/>	<input type="button" value=""/>
Enhancement		to		<input type="button" value=""/>	<input type="button" value=""/>
Logical Message	ORDRSP	to		<input type="button" value=""/>	<input type="button" value=""/>
Message Variant		to		<input type="button" value=""/>	<input type="button" value=""/>
Message Function		to		<input type="button" value=""/>	<input type="button" value=""/>
Partner Port		to		<input type="button" value=""/>	<input type="button" value=""/>
Partner Number		to		<input type="button" value=""/>	<input type="button" value=""/>
Partner Type		to		<input type="button" value=""/>	<input type="button" value=""/>
Partner Role		to		<input type="button" value=""/>	<input type="button" value=""/>

Communication method		Processing log		Further data	
Pur. Order..... XXXXXX1					
Output					
Stat...	Output Type	Description	Medium	Function	Partner
ZXX1	PO FOR VENDOR	6 EDI	VN	VENDOR	EN

IDoc search can also be made on the basis of ISA or Transfer file Reference.

IDoc List

Default		Additional		EDI	
Transfer File Reference		to		<input type="button" value=""/>	<input type="button" value=""/>
Reference to Message Group		to		<input type="button" value=""/>	<input type="button" value=""/>
Message Reference		to		<input type="button" value=""/>	<input type="button" value=""/>
EDI Archive Key		to		<input type="button" value=""/>	<input type="button" value=""/>
EDI Standard		to		<input type="button" value=""/>	<input type="button" value=""/>
EDI Version		to		<input type="button" value=""/>	<input type="button" value=""/>
EDI Message Type		to		<input type="button" value=""/>	<input type="button" value=""/>

TCODE WE09: SEARCHING DATA IN IDOC SEGMENTS

If we are looking for specific information within the IDocs Segments then this can be found using TCODE WE09. This is useful if you are searching for a particular information in similar kind of IDoc within IDoc segments. For example, if you want to search a particular Purchase Order number e.g. 100000001 in multiple IDocs which lies in Segment E1EDK01 of an IDoc under field BELNR. Then the search can be

executed in the following manner.

Fast Search Mode	
<input checked="" type="checkbox"/> Max. One Segment per IDoc	
Criteria for Search in Data Records	
Search in Segment ...	E1EDK01
Search in Field ...	BELNR
for Value ...	100000001
and Search in Field ...	
for Value ...	

IDOC VALIDATIONS, COMMON IDOC ERRORS AND SOLUTION

ISSUE	IN/OUT	POSSIBLE SOLUTION
Document Locking: IDoc can fail sometime because of the locking issue e.g. PO can be opened in change mode which IDoc Processing job is trying to update confirmation for the PO.	IN	Check T-code SM12 for locks and try to reprocess the IDoc once the locks are removed
Parallel processing If multiple programs are trying to process one IDoc then the processing program can fail due to locking issue.	IN/OUT	Try to find all the programs that are processing the IDocs. Exclude the IDoc from one of the programs. Ensure that this IDoc is processed after exclusion.
Duplicate IDocs IDoc can also fail if it is a duplicate IDoc	IN/OUT	Check whether the data IDoc is trying to post is already posted. Communicate the same to concerned partners or the user
Mandatory Segments missing If mandatory segments are missing the IDoc will fail with syntax errors.	IN/OUT	Check with EDI team the reason for syntax error. For outbound IDoc, if segment is missing then try to maintain the necessary data in the application by comparing good example IDocs. For inbound IDoc, ask the partner to send the correct data
Special or invalid Characters Special/Invalid character in the IDocs will not allow the IDoc to get posted	IN/OUT	Try to remove the special characters/or ask the partner to resend the IDoc without special characters.
Other issues	IN/OUT	Many a times the IDoc error message may not give you the correct reason for its failure. In such case, try to replicate the scenarios in the test system and try to find the root cause by debugging the related function module.

Though, the IDoc failure may not be related to any of the above mentioned reasons, the best way to find the IDoc error is to compare the existing IDoc with the good example. Good example IDoc can be easily searched with any of the IDoc search methods as described above.

DOCUMENTATION FOR IDOC TYPES

IDoc documentation can be found using TCODE WE60 and can be helpful to obtain information of the IDoc Type or its particular segment. It also provides information such as mandatory and optional segments, minimum and maximum number of segments, etc.



<p>Basic type WMMBID02</p> <p>Stock movements from ext. systems</p> <p>Released since Release 40A</p> <ul style="list-style-type: none"> • <i>IDocType(basicType)</i> • <i>SegmentStructures</i> <hr/> <p><u>Info...</u></p>	<h2>Structure of basic type WMMBID02</h2> <h3>Stock movements from ext. systems</h3> <hr/> <ul style="list-style-type: none"> • E1MBXYH : Goods movements for mobile data entry (header data) Status: Required , min. number : 1 , max. number : 1 <i>Structure</i> • E1MBXYI : Add goods movement from external system: Item Status: Required , min. number : 1 , max. number : 9999 <i>Structure</i> • E1MBXYJ : Create Goods Movement from Non-SAP System: Item++ Status: Optional , min. number : 1 , max. number : 1
--	--

GENERAL INFORMATION FOR COMMON IDOC MESSAGE TYPES

The following list gives the Basic Type and Message Type combination for common idocs

BUSINESS DOCUMENT	BASIC TYPE	MESSAGE TYPE
SALES ORDER	ORDERS01	ORDERS
	ORDERS02	
	ORDERS03	
PURCHASE ORDER	ORDERS04	ORDERS
	ORDERS05	
DELIVERY SHIPPING NOTIFICATION	DELVRY01	DESADV
	DELVRY02	
	DELVRY03	
INVOICE	INVOIC01	INVOIC

ARCHIVING/DELETION OF IDOCS FROM DATABASE

As IDocs grow older they are archived and deleted from the database. Archived IDocs can be viewed using TCODE SARI in Achieve Explorer using archiving object as IDoc. Following are the few programs that are used for archiving and deletion of IDocs from database.

PROGRAM	PURPOSE
RSEXARCA	Archive Idocs
RSEXARCD	Delete archived IDocs from the database
RSEXARCR	Read the IDocs from archive file
RSEXARCL	Retrieve IDocs from the archive into the database
RSETESTD	Delete IDocs from Database

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- 1. [B S Hada December 1, 2016 at 7:30 am](#)**

Very Informative, thanks

like (1)

- 2. [Santhosh Venreddy December 2, 2016 at 10:16 am](#)**

Many Thanks for this information

like (1)

- 3. [Upendra Tiwari December 4, 2016 at 2:11 pm](#)**

It's really very helpful..

like (1)

4. [**mohamad baradhi**](#) December 20, 2016 at 4:25 pm

Hi Niranjan Nagle,

thank you so much for this helphul information, I've read your explanation about IDOC and I'm thinking to use it to post a Sales Order on SAP.

My client is asking me to post SO based on the existing data in the Purchase order.

Based on your explanation in the "Overview" paragraph, you said " for transfer between two SAP systems, ALE is used" do you think if I used ALE it will be feasible for such requirement.

Please let me know your opinion and if you have any explanation regarding my client requirement,

Thank you so much,

Moha

like (0)

1. [**Niranjan Nagle**](#) January 16, 2017 at 8:47 pm

Hi Mohamad,

Yes, it is true that ALE can be used in this scenario. I am assuming you are trying to post SO in one system that triggers PO in another system.

You still have to generate outbound IDoc (for SO) in sending system and Inbound IDoc (for PO) in receiving system.

Please check with your basis consultant on the usage of ALE in this scenario.

Regards,

Niranjan

like (0)

5. [**CMA Ramesh Kolluru**](#) February 23, 2017 at 10:11 am

Excellent Article ...aptly tailored for functional consultants like me. Thanks a lot for your efforts and time.

like (0)

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Visual Text

Paragraph

Inserted from <<https://blogs.sap.com/2012/12/31/idoc-basics-for-functional-consultants/>>

IDOC type and Message type

Wednesday, April 15, 2020 1:33 PM

WE82 - Message Type and IDoc Type

WE64 - Process Codes (Inbound and Outbound) for Message Type.

Message type. A message type represents the application message exchanged between R/3 systems and R/3 and an external system. A message type characterizes the data sent across systems and relates to the structure of the data called an IDOC type (see below). For example, MATMAS is a message type for Material Master, and INVOIC is a message type for an Invoice (Billing Document). ALE supports over 200 message types in R/3 and about 200 application areas.

IDOC type and IDOC. An Intermediate Document (IDOC) type represents the structure of the data associated with a message type (DEBMAS02 for message type DEBMAS — Customer Master, and WMMBID02 for message type WMMBX — Goods Movements), while an IDOC is an object containing the data of a particular message type. IDOCs are data containers with intelligence built in. Each IDOC contains one and only one business object. For example, an IDOC of type SHPMNT01, message type SHPMNT, will contain data only of one Shipment Document. Generally, the architecture of an IDOC is independent of the message type by virtue of ALE's ability to redefine it for any message type.

Use transaction BD64 or the following menu path to maintain the model: From the IMG (Implementation Guide), Cross-Application Components -> Distribution (ALE) (*) -> Distribution Customer Model -> Maintain Distribution Customer Model Directly -> Maintain Distribution Customer Model Directly.

From <<https://answers.sap.com/questions/3245696/what-is-message-type--idoc-type.html>>

Message Type: For which purpose the IDOC is going to fire

From <<https://answers.sap.com/questions/3245696/what-is-message-type--idoc-type.html>>

DOC Type: It contains exact structure, in which sequence data transferred from one system to another system.

Through Message Type a whole bunch of data transferred to process code/port for transferring data.

IDOC type/Basic Type contains exact data.

From <<https://answers.sap.com/questions/3245696/what-is-message-type--idoc-type.html>>

WE82

Display View "Output Types and Assignment to IDoc Types": Overview



Display View "Output Types and Assignment to IDoc Types": Overview



Output Types and Assignment to IDoc Types

Message Type	Basic type	Extension	Release	
ZST_WMATMAS	MATMAS05		701	▲
ZST_WMMBXY	WMMBID02		701	▼
ZSVORDCHG	ORDERS05		740	
ZSVORDCHG	ORDERS05	ZRTC_SVORDERS05	740	
ZSVORDERS	ORDERS05		740	
ZSVORDERS	ORDERS05	ZRTC_SVORDERS05	740	
ZSVORDRSP	ORDERS05		740	
ZSVORDSCH	ORDERS05	ZRTC_SVORDERS05	740	
ZSYND_COND_A	COND_A02		740	
ZSYND_MATMAS	MATMAS01		30A	
ZSYND_MATMAS	MATMAS02		30D	
ZSYND_MATMAS	MATMAS03		40A	
ZSYND_MATMAS	MATMAS04		46C	
ZSYND_MATMAS	MATMAS05		740	
ZTMC_SHPMNT	SHPMNT05		620	▲
ZTMSDESADV	DELVRY07	ZTMC_DELVRY07	740	▼

Position

Entry 3 113 of 3 200

Outbound or Inbound process

Wednesday, April 15, 2020 3:00 PM

The Outbound Process

Steps Involved -

1. Create segments(WE31)
2. Create an idoc type(WE30)
3. Create a message type (WE81)
4. Associate a message type to idoc type(WE82)
5. Create a port(WE21)
6. If you are going to use the message control method to trigger idocs then create the function module for creating the idoc and associate the function module to an outbound process code
7. Otherwise, create the function module or stand-alone program which will create the idoc
8. Create a partner profile(WE20) with the necessary information in the outbound parameters for the partner you want to exchange the idoc with. Trigger the idoc.

The Inbound Process

Steps Involved-

1. Creation of basic Idoc type (Transaction WE30)
2. Creating message type (Transaction WE81)
3. Associating the Message type to basic Idoc type (Transaction WE82)
4. Create the function module for processing the idoc
5. Define the function module characteristics (BD51)
6. Allocate the inbound function module to the message type(WE57)
7. Defining process code (Transaction WE42)
8. Creation of partner profile (Transaction WE20)

From <<https://www.guru99.com/all-about-idocdefinition-architecture-implementation.html>>

IDOC Port

Wednesday, April 15, 2020 3:03 PM

Port WE21

Ports in IDoc processing

Ports	Description
→ Ports	
Transactional RFC	
A000000011	Destination for BW1
A000000012	Destination for D47
A000000014	Port AEB As
A000000015	DEV 300
A000000017	D47200
BC_R31	Lighting QA Business
EDIINTER	EDI Intercompany Po
FEKOR_QA	FEKOR - QA Instance
H3DCLNT010	ALE/Idoc tRFC port f
ISGBDE_MHR	ISGUS BDE T&A Inte
LSMW_TRFC	tRFC port for IDOC p
LS_R31100	Destination for R31 1
QR3MD200	tRFC log. System QR
R3QMD010	tRFC log. System R3C
SAPQAS168	Destination for QAS/
SAPR31	RFC for ALE/IDOC Int
SAP_PIQ	RFC Connection for C
SAP_PX1	RFC Connection for R
SAP_PX2	RFC Connection for R
SAP_PXD	RFC Connection for R
SUIDBW1105	Security User ID Ren:
SUIDBW2105	Security User ID Ren:
SUIDBWD105	Security User ID Ren:
SUIDCFD100	User ID Rename CFD
SUIDCFQ100	User ID Rename CFQ
SUIDD47200	Security User ID Ren:
SUIDD47300	Security User ID Ren:
SUIDGT1100	Security User ID Ren:
SUIDGT2100	Security User ID Ren:
SUIDGTD100	Security User ID Ren:
SUIDNFD001	Security User ID Ren:
SUIDNFQ001	Security User ID Ren:
SUIDNFQ100	Security User ID Ren:
SUIDP47100	Security User ID Ren:
SUIDPID001	Security User ID Ren:
SUIDPIQ001	User ID Rename PIQ
SUIDR31100	Destination for R31 1
SUIDSRD100	Security User ID Ren:
SUIDSRQ100	User ID Rename SRQ
File	
CPI-C	
ABAP-PI	
XML File	
XML HTTP	

Port SAP_PX1
Description RFC Connection for R31 t

Version
 IDoc rec.types SAP Release 3.0/3.1
 IDoc record types SAP Release 4.x

RFC destination IDOC_TO_PX1

Processing Options
 Queue processing is supported
 Send Only Fields of Segment Version
 Use SAP release of receiver system in contr

Port Options
Description
 No Initial Values for DATS, TIMS, NUMC fo
Send Dynamic Enhancement Segments

SM59

RFC Edit Goto Extras Utilities System Help

Generate RFC Callback Positive Lists Activate Non-Empty Whitelists Positive List for Dynamic Connections

RFC callback check not secure

Configuration of RFC Connections

RFC Connections	Ty...	PL...	Comment
• TCP/IP Connections	T		
• ACMS	T	-	RFC Destination AEB Assist4
• BC_ERP_AT	T	-	RFC Destination for AUTOTIME
• BSI60-US-TAX	T	-	BSI 6.0 Tax Factory
• BSI70-US-TAX	T	-	BSI 7.0 RFC Connection
• BSI80-US-TAX	T	-	TaxFactory 8.0 RFC connection
• BSI90-US-TAX	T	-	TaxFactory 9.0 RFC connection
• CALLTP_HP-UX	T	X	Transport Tools: tp Interface *generated*
• CALLTP_Linux	T	X	Transport Tools: tp Interface *generated*
• CC_P47_100_AUTHORIZATION	T	-	XiPay RFC Destination for Authorization,
• CC_P47_100_SETTLEMENT	T	-	XiPay RFC Destination for Settlement, Paymetric, Inc.
• CC_R31_100_AUTHORIZATION	T	-	XiPay RFC Destination for Authorization, Paymetric, Inc R31 Client 100
• CC_R31_100_SETTLEMENT	T	-	XiPay RFC Destination for Settlement, Paymetric, Inc. R31 Client 100
• CC_XISECURE_DISSO	T	-	XiSecureNet Tokenization Data Intercept Single SignOn
• CIPT0060	T	-	QA BC FLASHPRO
• CIPT0060CL	T	-	QA BC FLASHPRO
• CIPT0121	T	-	CL BC
• CIPT0121_BC2	T	-	CL BC
• DOCUMENTATION_HELP	T	-	Call WinHelp and WinWord from R/3
• DRPNET	T	-	Graphical DRP Network
• ESKERFAX	T	-	ESKER FAX SERVER
• ESKERFAX_COMMANDLINE	T	-	ESKER FAX SERVER
• ESKER_DELIVERYWARE	T	-	ESKER_DELIVERYWARE
• ESKER_DELIVERYWARE_COMMANDLINE	T	-	ESKER_DELIVERYWARE
• EU_SCRP_TEST	T	-	Graphical Screen Painter (local Test for A.Herrmann)
• EU_SCRP_WN32	T	-	Graphical Screen Painter (WindowsNT / Windows95)
• F1_HELP_SERVER	T	-	Windows RFC server for F1 help on fields, messages and command fields
• F1_HELP_SERVER_32	T	-	Windows RFC server for F1 help on fields, messages and command fields
• F1_HELP_SERVER_40	T	-	Windows RFC server for F1 help on fields, messages and command fields
• GFW_ITS_RFC	T	-	
• IDOC_TO_PX1	T	-	Idoc_AAE Communication
• IDOC_TO_PX2	T	-	Idoc_AAE Communication
• IDOC_TO_PXD	T	-	Idoc_AAE Communication

SAP | R31 (2) 100 | sapuxr3113 | INS |

Connection Edit Goto Extras Utilities System Help

Connection Test Unicode Test

RFC Destination **IDOC_TO_PX1**

RFC Destination **IDOC_TO_PX1**

Connection Type **TCP/IP Connection** Description

Description

Description 1 **Idoc_AAE Communication**

Description 2 **https://blogs.sap.com/2014/07/03/background-conf**

Description 3 **igurations-between-sap-po-and-ecc-systems/**

Administration Technical Settings Logon & Security Unicode Special Options

Activation Type

Start on Application Server Registered Server Program

Start on Explicit Host

Start on Front-End Work Station

Registered Server Program

Program ID **XI_IDOC_DEFAULT_PID**

Start Type of External Program

Default Gateway Value

Remote Execution

Remote Shell

Secure Shell

CPI-C Timeout

Default Gateway Value

Specify Timeout **60** Defined Value in Seconds

Gateway Options

Gateway Host **sapuxpx1**

Gateway service **sapgw00**

How to reprocess existing idoc

Wednesday, April 15, 2020 12:35 PM

Transaction WE19

The screenshot shows two instances of the SAP Test tool for IDoc processing.

Top Window: The title bar says "Test tool for IDoc processing". The "Template for test" section has the "Existing IDoc" radio button selected, with the value "337607936" entered into the input field. Below it are other options: "BasicTyp withEnhancement", "Via message type", "File as template" (with a "Unicode" checkbox), and "w/o template".

Bottom Window: The title bar also says "Test tool for IDoc processing". The tabs at the top are "Standard inbound", "Inbound function module", "Inbound file", and "Standard outbound processing". The "Standard outbound processing" tab is active. It displays an IDOC structure with the root node "EDIDC". Under "EDIDC", there is a child node "EIAFKOL". The data for "EIAFKOL" includes fields: 64202043, 0.00, ZP1020200402100.000, EA 10.000, 0000.00, 0000000XXX, 000 0052020. A red arrow points to the "0000.00" value.

Creates a new IDOC

IDoc Edit Goto Utilities Settings System Help

Test tool for IDoc processing

Standard inbound Inbound function module Inbound file Standard outbound processing

EDIDC	100000000337607936740 03	1SAP_PX1	LSLS_DHLGB	ZDHL_L	2 SAPR31	LSLS_R311
E1AFKOL	64202043	0.00	ZP1020200402100.000	EA 10.000	0000000 000000XXX	000 005202004022020033010.000
E1AFLTH	DHLHDOPS					
E1AFLTP	ST0010 - Montage und Verpacken					
E1AFLTP	TH0.0833333333333301 H					
E1JSTKL	E0002PRDORDER					
E1JSTKL	I0002					
E1JSTKL	I0016					
E1JSTKL	I0028					
E1JSTKL	I0215					
E1JSTKL	I0340					
E1JSTKL	I0361					
E1AFFLL	0000000120	0				
E1AFVOL	0010 0.000000000000E+00 0	0.0	10025016HUR0.000 8.3333333333 33330E-02 HUR1.000	0000000000000	0.0	0.0 202004060700002 02
E1JSTVL	E0002PRDORDER					
E1JSTVL	I0002					
E1RESSL	0.00 0.00 AR10.000 20200402 0.000 Y7-21 6716 EA 20200407 10.000 4947B2610010					
E1RESSL	0.00 0.00 AR10.000 20200402 0.000 Y7-21 6374 EA 20200407 10.000 4947B2610020					
E1KBEDL	01323849642700000010512 0.000000000000000E+00 0.000000000000000E+00 002100 242085.000000000000000E+00 5.000000000000000E+00 MIN0.000000000000000E+00					
E1AFFOL	0001EA 0.000 1217303833 0000000103000Y7-78639354	EA 38885065	630.000	10.000	1	1 5 0. 000

IDoc no. 000000033760793 saved in database



Partner Profile not maintained - WE19 - SAP Q&A

Wednesday, April 15, 2020 3:14 PM

Partner Profile not maintained - WE19

Posted on Mar 11, 2010 at 05:52 AM | 1.6k Views

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Hi! All

when I'm trying to test IDOC in WE19 its saying Partner Profile not maintained while clicking "Start inbound".

But I'm able to see the partner profile in WE20 with the created Message type and port.

whats wrong i have done.

Regards,

Kv

[ABAP Development](#)

[Add comment](#)

Please note: comments are intended to help clarify the original question. If you want to provide your answer to the question please use the "Submit an answer" option at the bottom of this page.

Please note: comments are intended to help clarify the original question. If you want to provide your answer to the question please use the "Submit an answer" option at the bottom of this page.

10|10000 characters needed characters exceeded

Former Member

Posted on Mar 11, 2010 at 05:59 AM

2

Hi,

[IN WE19 Click on the control record for IDOC ie segment EDIDC and add the partner profile created in WE20.](#)

[Now press START INBOUND button. it will work incase partner profile maintained properly.](#)

Regards,

Shanmugavel Chandrasekaran

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- 10 Comments

- Former Member Former Member

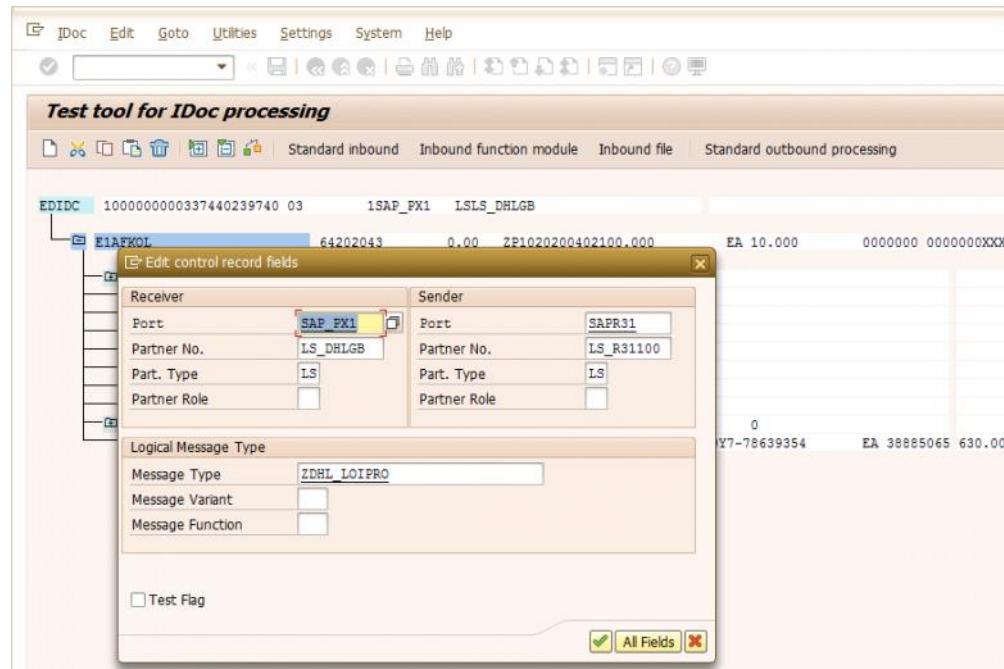
[Mar 12, 2010 at 06:48 AM](#)

Hi..

sender port is like "SAPESR" = SAP+your server systemid.

Regards,

Lokeswari.



[Subramony A R ,Subramony Ramakrishnan](#)

Posted on Mar 11, 2010 at 05:56 AM

0

WE19 is a test tool, you need to maintain partner profiles by clicking "standard inbound" button

a@

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characters exceeded

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0 Comments



[Suhas Saha](#)

Posted on Mar 11, 2010 at 05:58 AM

0

Hello,

You have to maintain the message type in the "Inbound Params" of your partner profile in WE20. Have you done that ?

BR,

Suhas

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[Anup Deshmukh](#)

Posted on Mar 11, 2010 at 06:03 AM

0

If partner profiles are not maintained you can still test it in WE19 test the IDOC with BUTTON "INBOUND FUNCTION MODULE" you need not maintain partner profiles for same Provided in the EDIDC structure of the idoc give the message type.
Hope it helps...!

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Inserted from <<https://answers.sap.com/questions/7112169/partner-profile-not-maintained-we19.html>>

ALE setup

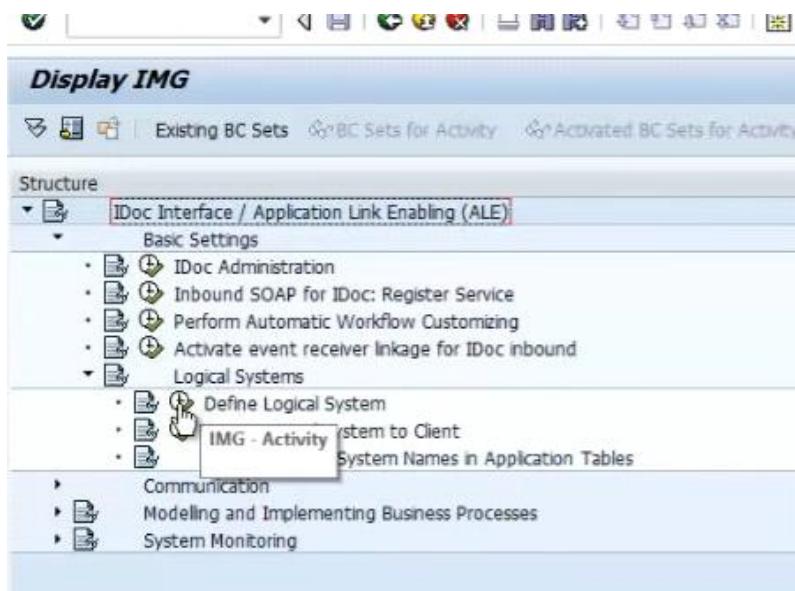
Monday, March 06, 2017 4:21 PM

<https://www.youtube.com/watch?v=KVeTgD3VIFE>

<https://www.youtube.com/watch?v=wsUYfs9ITiw>

- ```
1. Create logical system EH6CLNT950 <--->
2. assign the logical system to the client 950 <--->
3. SM59 : establish the RFC connection <---> done
4. port <---> source
5. model view distribution <---> done in source
6. partner profile <---> done in source
7. send idoc <---> BD10
8. receive idoc <---> BD11
```

- 1) SALE transaction (define logical system)



Change View "Logical Systems": Overview

| Log.System  | Name            |
|-------------|-----------------|
| E6ICLNT800  | E6I 800         |
| EC6CLNT950  | EC6 Client 950  |
| EH5CLNT950  | EH5 Client 950  |
| EH6CLNT000  | client 000      |
| EH6CLNT001  | client 001      |
| EH6CLNT950  | New client      |
| EHRLCLNT950 | Training Client |
| RPO         | RPO             |
| SC7CLNT100  | SC7 client 100  |

2) Assign logical system to client

Display IMG

Structure

- IDoc Interface / Application Link Enabling (ALE)
  - Basic Settings
    - Define Logical System
    - Assign Logical System to Client
    - Convert Logical System Names in Application Tables
  - Communication
  - Modeling and Implementing Business Processes
  - System Monitoring

3)

Change View "Clients": Overview

| Client | Name           | City      | Crcy | Changed on |
|--------|----------------|-----------|------|------------|
| 000    | SAP AG         | Walldorf  | EUR  | 24.06.2013 |
| 001    | SAP AG Konzern | Walldorf  | EUR  | 19.09.2013 |
| 066    | EarlyWatch     | Walldorf  | EUR  | 21.07.2002 |
| 800    | E6ICLNT800     | Hyderabad | USD  | 30.08.2014 |
| 950    | Global Sandbox | NEW YORK  | USD  | 03.08.2013 |

4)

- 5) Repeat same steps in sender and receiver.
- 6) Goto **SM59** and create a new RFC destination

| Configuration of RFC Connections      |       |                                                      |
|---------------------------------------|-------|------------------------------------------------------|
|                                       | Ty... | Comment                                              |
| • EH6                                 | 3     | EH6                                                  |
| • EH6CLNT950                          | 3     | My SAP BW System                                     |
| • EHRLNT100                           | 3     | RFC to EHR client 100                                |
| • EHRLNT950                           | 3     | n 1 EHR                                              |
| • EHRClnT950                          | 3     | EHR                                                  |
| • FINB_TR@EH6CLNT000                  | 3     | FINB_TR: Generated Destination for Transport Methods |
| • FINBTR@EH6CLNT001                   | 3     | FINB_TR: Generated Destination for Transport Methods |
| • FINBTR@EH6CLNT950                   | 3     | FINB_TR: Generated Destination for Transport Methods |
| • PCWCLNT100                          | 3     |                                                      |
| • S7RCLNT950                          | 3     | EH6 to S7R                                           |
| • S7REH61                             | 3     | from eh6 to s7r                                      |
| • SAPOSS                              | 3     |                                                      |
| • SAPXIPP950                          | 3     |                                                      |
| • SAP_UPGRADE_SHADOW_SYSTEM           | 3     | *** generated by SAPup ***                           |
| • SC7CLNT100                          | 3     | RFC destination to SC7                               |
| • SM8cht100                           | 3     | rfc between EH6 and SM8                              |
| • SM_S71CLNT100_BACK                  | 3     | Generated Destination                                |
| • SM_S71CLNT100_TRUSTED               | 3     |                                                      |
| • SM_S71_TRUSTED_BACK                 | 3     | Generated Destination                                |
| • SM_SM7CLNT100_BACK                  | 3     | Generated Destination                                |
| • SM_SM7_TRUSTED_BACK                 | 3     | Generated Destination                                |
| • SN4CLNT150                          | 3     | RFC Destination to SN4 Client 150                    |
| • TM9CLNT100                          | 3     | RFC to TM9 client 100                                |
| • TMSADM@EH6.DOMAIN_EHR               | 3     | TMS Communication Interface "generated"              |
| • TMSADM@EHR.DOMAIN_EHR               | 3     | TMS Communication Interface *generated*              |
| • TMSSUP@EH6.DOMAIN_EHR               | 3     | TMS Communication Interface "generated"              |
| • TMSSUP@EHR.DOMAIN_EHR               | 3     | TMS Communication Interface *generated*              |
| • TRUSTING@S71_0020653978             | 3     | Generated destination for trusting system S71        |
| • e6icnt800                           | 3     | e6icnt800                                            |
| ‣ HTTP Connections to External Server | G     |                                                      |
| ‣ Internal Connections                | I     |                                                      |
| ‣ TCP/IP connections                  | T     |                                                      |
| ‣ Connections via ABAP Driver         | X     |                                                      |

**RFC Destination e6icInt800**

The screenshot shows the SAP RFC Destination configuration interface. At the top, there are tabs for "Remote Logon", "Connection Test", "Unicode Test", and "RFC Destination". The "RFC Destination" tab is active, displaying the destination name "e6icInt800" and connection type "3 ABAP Connection". Below this, there is a "Description" section with three fields: "Description 1" (e6icInt800), "Description 2" (empty), and "Description 3" (empty). A modal dialog box is overlaid on the screen, containing "Target System Settings" and "Gateway Options" sections. The "Target Host" field is set to "Untitled - ..." with "System Number 01". The "File" menu of this dialog is highlighted with a green box. The "Gateway Options" section includes fields for "Gateway Host" and "Gateway service", both currently empty, with a "Delete" button nearby.

**RFC - Connection Test**

**Connection Test e6icInt800**  
Connection Type SAP Connection

| Action            | Result  |
|-------------------|---------|
| Logon             | 37 msec |
| Transfer of 0 KB  | 4 msec  |
| Transfer of 10 KB | 6 msec  |
| Transfer of 20 KB | 7 msec  |
| Transfer of 30 KB | 8 msec  |

- 7) Create a port WE21

| Ports in IDoc processing |                             |
|--------------------------|-----------------------------|
| Ports                    | Description                 |
| Ports                    |                             |
| Transactional RF         |                             |
| • A000000015             | Port for batch              |
| • A000000016             | SC7CLNT100                  |
| • A000000018             | My SAP BW System 1 EHR      |
| • A000000019             | RFC destination to rpo port |
| • A000000021             | SAPRPO                      |
| • YTEST0001              | Port for batch              |
| • ZTEST_PORT             | Port for outbound           |
| File                     |                             |
| CPI-C                    |                             |
| ABAP-PI                  |                             |
| XML File                 |                             |
| XML HTTP                 |                             |

Assign RFC destination

8)

| Ports            | Description                 |
|------------------|-----------------------------|
| Ports            |                             |
| Transactional RF |                             |
| • A000000015     | Port for batch              |
| • A000000016     | SC7CLNT100                  |
| • A000000018     | My SAP BW System 1 EHR      |
| • A000000019     | RFC destination to rpo port |
| • A000000021     | SAPRPO                      |
| • YTEST0001      | Port for batch              |
| • ZTEST_PORT     | Port for outbound           |
| File             |                             |
| CPI-C            |                             |
| ABAP-PI          |                             |
| XML File         |                             |
| XML HTTP         |                             |

Port:

Description:

Version

IDoc rec.types SAP Release 3.0/3.1

IDoc record types SAP Release 4.x

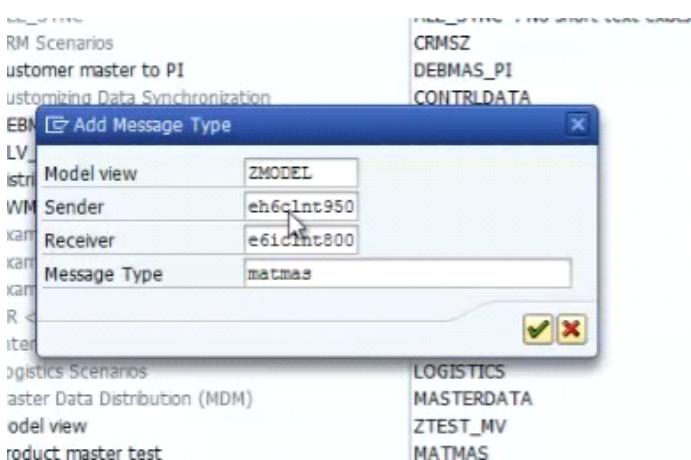
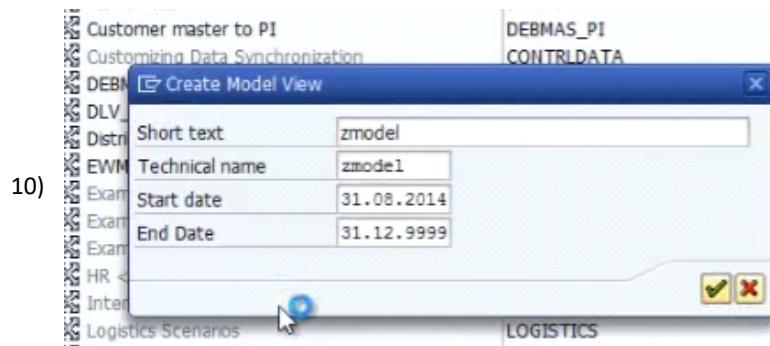
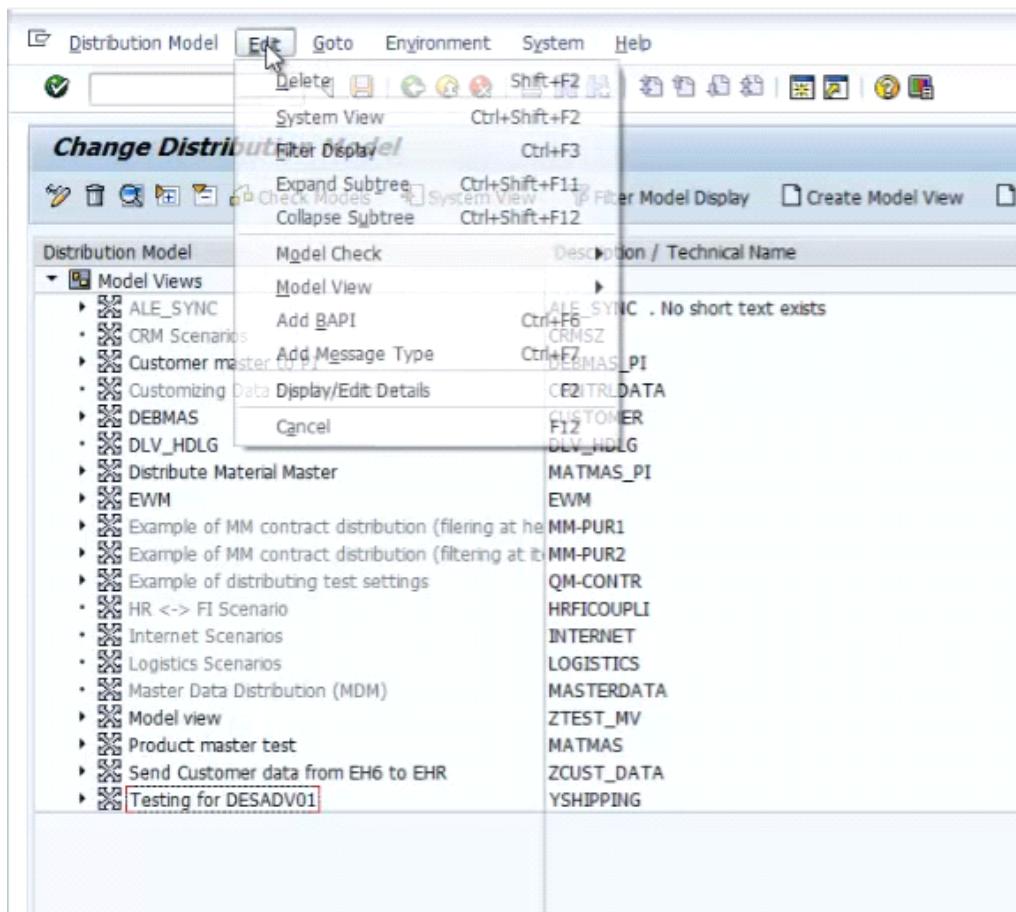
RFC destination:

Processing Options

Send Only Fields of Segment Version

Use SAP Release of Receiving System in Control Record

9) Create model view - BD64





Distribution Model Edit Goto Environment System Help

Check Models System View Filter Model Display Create Model View

**Change Distribution Model**

| Distribution Model                                          | Description / Technical Name      |
|-------------------------------------------------------------|-----------------------------------|
| - Model Views                                               |                                   |
| - ALE_SYNC                                                  | ALE_SYNC . No short text exists   |
| - CRM Scenarios                                             | CRM SZ                            |
| - Customer master to PI                                     | DEBMAS_PI                         |
| - Customizing Data Synchronization                          | CONTRLDATA                        |
| - DEBMAS                                                    | CUSTOMER                          |
| - DLV_HDLG                                                  | DLV_HDLG                          |
| - Distribute Material Master                                | MATMAS_PI                         |
| - EWM                                                       | EWM                               |
| - Example of MM contract distribution (filtering at header) | MM-PUR1                           |
| - Example of MM contract distribution (filtering at item)   | MM-PUR2                           |
| - Example of distributing test settings                     | QM-CONTR                          |
| - HR <-> FI Scenario                                        | HRFI COUPLI                       |
| - Internet Scenarios                                        | INTERNET                          |
| - Logistics Scenarios                                       | LOGISTICS                         |
| - Master Data Distribution (MDM)                            | MASTERDATA                        |
| - Model view                                                | ZTEST_MV                          |
| - Product master test                                       | MATMAS                            |
| - Send Customer data from EH6 to EHR                        | ZCUST_DATA                        |
| - Testing for DESADV01                                      | Y SHIPPING                        |
| - zmodel                                                    | ZMODEL                            |
| - New client                                                | EH6CLNT950                        |
| - E6I 800                                                   | E6ICLNT800                        |
| - MATMAS                                                    | Material master                   |
| - CREMAS                                                    | Vendor master data distribution   |
| - DEBMAS                                                    | Customer master data distribution |

11) Generate partner profile

**Generate Partner Profile**

Model View: ZMODEL to [ ]

Partner System: [ ] to [ ]

Check Run:

**Default Parameters for Partner Profile**

**Postprocessing: Authorized Users**

Ty: US User  
ID: Untitled - ...

**Outb. Parameters**

Version: 3 IDoc record types from Version 4.0 onwards  
Pack. Size: 100 IDocs

**Output Mode**

Transfer IDoc immediately  
 Collect IDocs and transfer

**Inb. Parameters**

**Processing**

Trigger immediately  
 Trigger by background program

**Generate Partner Profile**

**Log for Partner Profile Generation**

| Task             | System            | Status | Result                                                                    |
|------------------|-------------------|--------|---------------------------------------------------------------------------|
| Partner          | System E6ICLNT800 | OO     | System E6ICLNT800 as a partner type already exists                        |
|                  | System EH6CLNT950 | OO     | System EH6CLNT950 as a partner type already exists                        |
| Port             | System E6ICLNT800 | OO     | Port A000000021 with RFC destination E6ICLNT800 already exists            |
| Outb. Parameters |                   | OO     | Outbound parameters for message type CREMAS CREMAS05 successfully created |
|                  |                   | OO     | Outbound parameters for message type DEBMAS DEBMAS07 successfully created |
|                  |                   | OO     | Outbound parameters for message type MATMAS MATMAS05 already exist        |
|                  |                   | OO     | Outbound parameters for message type SYNCH SYNCHRON already exist         |

12) Asdf

Partners Edit Goto Utilities System Help

| Partner          | Description          |
|------------------|----------------------|
| Partner Profiles |                      |
| Partner Type B   | Bank                 |
| Partner Type BP  | Benefits provider    |
| Partner Type GF  | Business Partner     |
| Partner Type KU  | Customer             |
| Partner Type LI  | Vendor               |
| Partner Type LS  | Logical system       |
| E6ICLNT800       | E6I 800              |
| EC6CLNT950       | EC6 Client 950       |
| EH6CLNT950       | New client           |
| EHRLCLNT950      | Training Client      |
| RPO              | RPO                  |
| SC7CLNT100       | SC7 client 100       |
| Partner Type US  | User (first 10 char) |

Post processing: permitted agent Classification T

Ty. US Agent User

Lang. EN Eng

Outbound parmr.

| Partner Role | Message Type | Message va...                       | MessageFu... | Test                     |
|--------------|--------------|-------------------------------------|--------------|--------------------------|
|              | CREMAS       |                                     |              | <input type="checkbox"/> |
|              | DEBMAS       |                                     |              | <input type="checkbox"/> |
|              | MATMAS       | <input checked="" type="checkbox"/> |              | <input type="checkbox"/> |
|              | SYNCH        |                                     |              | <input type="checkbox"/> |

Inbound parmr.

| Partner Role | Message Type | Message va... | MessageFu... | Test |
|--------------|--------------|---------------|--------------|------|
|              |              |               |              |      |

13) Send Idoc BD10

WE57 -? Assgningment of function module for inbound idoc

Table View Edit Goto Selection Utilities(M) System Help

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

IDoc: Assignment of FM to Log, Message and IDoc Type

| FM Name                                       | F.. | BasicType    | Enhanc. | Messg.Type    | V... | Fct. | Obj... | Descriptn                                                            |
|-----------------------------------------------|-----|--------------|---------|---------------|------|------|--------|----------------------------------------------------------------------|
| /DSD/ME_IDOC_I...                             | .   | /DSD/HR_C... |         | /DSD/HR_CO... |      |      |        | DSD Control Out                                                      |
| /DSD/ME_IDOC_I...                             | .   | /DSD/HR_C... |         | /DSD/HR CU... |      |      |        | DSD Customer N                                                       |
| <b>[Another entry]</b>                        |     |              |         |               |      |      |        |                                                                      |
| Function module <input type="text" value=""/> |     |              |         |               |      |      |        |                                                                      |
| Function type <input type="text" value=""/>   |     |              |         |               |      |      |        |                                                                      |
| Basic type <input type="text" value=""/>      |     |              |         |               |      |      |        |                                                                      |
| Extension <input type="text" value=""/>       |     |              |         |               |      |      |        |                                                                      |
| Message Type <input type="text" value=""/>    |     |              |         |               |      |      |        |                                                                      |
| Message Variant <input type="text" value=""/> |     |              |         |               |      |      |        |                                                                      |
| Mess. function <input type="text" value=""/>  |     |              |         |               |      |      |        |                                                                      |
| Object Type <input type="text" value=""/>     |     |              |         |               |      |      |        |                                                                      |
|                                               |     |              |         |               |      |      |        | <input checked="" type="checkbox"/> <input type="button" value="X"/> |
|                                               |     |              |         |               |      |      |        |                                                                      |
| /ISDFPS/IDOC_I...                             | .   | /ISDFPS/B... |         | /ISDFPS/BO... |      |      |        | BAPI for Inbound                                                     |
| /ISDFPS/IDOC_I...                             | .   | /ISDFPS/B... |         | /ISDFPS/BO... |      |      |        | BOMs: Equipment                                                      |
| /ISDFPS/IDOC_I...                             | .   | /ISDFPS/B... |         | /ISDFPS/BO... |      |      |        | BOMs: Standard                                                       |
| /ISDFPS/IDOC_I...                             | .   | /ISDFPS/C... |         | /ISDFPS/CP    |      |      |        | BOMs: Functional                                                     |
| /ISDFPS/IDOC_I...                             | .   | /ISDFPS/E... |         | /ISDFPS/EL    |      |      |        | Maintenance Mo                                                       |
| /ISDFPS/IDOC_I...                             | .   | /ISDFPS/E... |         | /ISDFPS/EP... |      |      |        | /ISDFPS/EXPO_L                                                       |
| /ISDFPS/IDOC_I...                             | .   | /ISDFPS/E... |         | /ISDFPS/ET    |      |      |        | BAPI: Maintain E                                                     |
| /ISDFPS/IDOC_I...                             | .   | /ISDFPS/F... |         | /ISDFPS/FC    |      |      |        | /ISDFPS/ BAPI f                                                      |
| /ISDFPS/IDOC_I...                             | .   | /ISDFPS/F... |         | /ISDFPS/FL    |      |      |        | BAPI: Process Fu                                                     |
| /ISDFPS/IDOC_I...                             | .   | /ISDFPS/F... |         | /ISDFPS/FO    |      |      |        | /ISDFPS/ BAPI f                                                      |
| /ISDFPS/IDOC_I...                             | .   | /ISDFPS/F... |         |               |      |      |        | BAPI: Maintain S                                                     |

Position... Entry 1 of 2.085 14:06 / 41:22

Table View Edit Goto Selection Utilities(M) System Help

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

IDoc: Assignment of FM to Log, Message and IDoc Type

| FM Name          | F.. | BasicType | Enhanc. | Messg.Type | V...     | Fct.             | Obj...           | Descriptn |
|------------------|-----|-----------|---------|------------|----------|------------------|------------------|-----------|
| IDOC_INPUT_ORDER | .   | ORDERS01  |         | ORDERS     | BUS20... | Purchase order / |                  |           |
| IDOC_INPUT_ORDER | .   | ORDERS01  |         | ORDERS     | SDO      | BUS20...         | Purchase order / |           |

Tuesday, March 14, 2017 3:06 PM

ZQTC\_IDOC\_INPUT\_ORDERS

ID :- AM  
Number:- 216

129352729

0000000129359582

000129359594

sd\_sales\_docu\_maintain

0000000129350067 2 03 @08\QGreen Light: IDoc Successful@ Green LS/  
/LS\_BWQ105 RSINFO 03/14/2017 01:35:20 RSINFO Outbox A000000011

E1EDKA1

## Error IDOC

Wednesday, April 1, 2020 4:19 PM

Be87 - idoc error transaction

Select Message type ZBUSWMSATS in this case for Bussman WMS :-

**Select IDocs**

|                |                                 |    |                                 |                                 |
|----------------|---------------------------------|----|---------------------------------|---------------------------------|
| IDoc Number    | <input type="text"/>            | to | <input type="text"/>            | <input type="button" value=""/> |
| Created On     | <input type="text"/>            | to | <input type="text"/>            | <input type="button" value=""/> |
| Created At     | <input type="text"/> 00:00:00   | to | <input type="text"/> 00:00:00   | <input type="button" value=""/> |
| Changed On     | <input type="text"/> 03/01/2020 | to | <input type="text"/> 04/01/2020 | <input type="button" value=""/> |
| Changed At     | <input type="text"/> 00:00:00   | to | <input type="text"/> 00:00:00   | <input type="button" value=""/> |
| IDoc Status    | <input type="text"/>            | to | <input type="text"/>            | <input type="button" value=""/> |
| Partner System | <input type="text"/>            | to | <input type="text"/>            | <input type="button" value=""/> |

**Selection Options for IDoc**

|                 |                                 |                                 |                      |                                 |
|-----------------|---------------------------------|---------------------------------|----------------------|---------------------------------|
| Message Type    | <input type="text"/> ZBUSWMSATS | to                              | <input type="text"/> | <input type="button" value=""/> |
| Business Object | <input type="text"/>            | <input type="button" value=""/> |                      |                                 |
| Object Key      | <input type="text"/>            | <input type="button" value=""/> |                      |                                 |

| IDocs                                                 | IDoc Status | Number |
|-------------------------------------------------------|-------------|--------|
| • IDoc selection                                      |             |        |
| • Changed on is in the range 04/01/2020 to 04/01/2020 |             |        |
| • Message Type is equal to ZBUSWMSATS                 |             |        |
| • R/3 QA R31 Client 100                               |             | 2      |
| • IDocs in outbound processing                        |             | 2      |
| • Error triggering EDI subsystem                      | 20          | 2      |
| • ZBUSWMSATS                                          |             | 2      |
| • ZBUSWMS(008) : Translation successful & & &         |             | 2      |

BD64 (maintenance of distribution model)

| Distribution Model                    | Description/Technical Name       |
|---------------------------------------|----------------------------------|
| • Model Views                         |                                  |
| • ZCPS_MODEL                          | ZCPS_MODEL. No short text exists |
| • ALE/IDOC Interface                  | IDOC_INF                         |
| • ATG eShop                           | ESHGP                            |
| • ATG eShop R31                       | ESHOP_R31                        |
| • AUTOTIME                            | BC_ERP_AT                        |
| • Bussmann CDC WMS MMaster            | BUSCDCWMS                        |
| • R/3 PRD. P47 Client 100             | LS_B47100                        |
| • Bussmann CDC WMS System             | ZBUSCDCWMS                       |
| • ZBUSWMSMAT                          | Bussmann US WMS Material         |
| • Data Filter Active                  |                                  |
| • Filter Group                        |                                  |
| • Plant                               | Plant                            |
| • 1200                                | Elleville, MO CDC (CBU)          |
| • C360 Interfaces                     | BUSCDCWMS1                       |
| • CFQ Distribution Channel for Userid | C360                             |
| • ZCFQUSR31                           | ZCFQUSR31                        |

/interface/unity\_wms/cdc/outgoing

WE20 (partner profile)

**Partner profiles**

The screenshot shows the SAP Partner Profile configuration interface. A list of partners is on the left, with 'ZBUSCDCWMS' selected. The main area displays partner details and configuration tabs.

**Partner Details:**

- Partner No.: ZBUSCDCWMS
- Partn.Type: LS (Logical system)
- Description: Bussmann CDC WMS System
- Logical system fc
- Logical system fc
- EMEA IDOC Intel
- Sterling WMS Int
- PQDMC Logical
- P57 Client 200
- Subsystem for e:
- SUDBW1105 User ID Rename
- SUDBW2105 User ID Rename
- SUDBW105 User ID Rename
- SUDCFD100 User ID Rename
- SUDCFQ100 User ID Rename
- SUDDA7200 User ID Rename
- SUIDD047300 User ID Rename
- SUDGT1100 User ID Rename
- SUDGT2100 User ID Rename
- SUDGTD100 User ID Rename
- SUDINFD001 User ID Rename
- SUDINFO001 User ID Rename
- SUDINFQ100 User ID Rename
- SUDIPD001 User ID Rename
- SUDIPQ001 User ID Rename
- SUDIR31100 User ID Rename
- SUDISRD100 User ID Rename
- SUDSRQ100 User ID Rename
- Bussmann CDC V
- ZBUSVAS Bussmann Vaster
- ZCHTRNDSET CCH TRENDSET
- ZCL\_0TM OTM TMS Syste
- ZCPSTRNDST CPS TREND SET
- ZDSQ\_IDOC Logical system fc
- ZDS\_DMDIDOC Partner Number
- ZEHS\_PRC EHS Product Cor
- ZKECONSIGN Intercompany Co
- ZKWL\_KEWIL Kewill Flagship
- ZLS\_UPS\_VN UPS SCI VNSAP
- ZPQTRNDSET Lc PQ TRENDSET Lc
- ZTMC\_ROBIN Robinson TMC
- User (first 10 chr)

**Post processing: permitted agent Classification**

**Outbound parmrts.**

| Partner Role | Message Type | Message va... | MessageFu... | Test                     | Receiver p... | I... | Pa... | Basic type | Extension | Release |
|--------------|--------------|---------------|--------------|--------------------------|---------------|------|-------|------------|-----------|---------|
| LS           | ZBUSWMSITR   |               |              | <input type="checkbox"/> | BUS_NMS_O     | 1    |       | DELVRY03   |           | 620     |

**Inbound parmrts.**

| Partner Role | Message Type | Message va... | MessageFu... | Test                     | P... | Process code |
|--------------|--------------|---------------|--------------|--------------------------|------|--------------|
|              | ZBUSWMSNAD   |               |              | <input type="checkbox"/> | 0    | ZNMFT        |
|              | ZBUSWMSNOR   |               |              | <input type="checkbox"/> | 0    | ZNMFT        |
|              | ZBUSWMSNOSD  |               |              | <input type="checkbox"/> | 0    | 'DELIV       |
|              | ZBUSWMSNOSS  |               |              | <input type="checkbox"/> | 0    | 'SHPM        |

# 7 Steps For ALE Configuration - ABAP Development - Community Wiki

Wednesday, April 1, 2020 5:01 PM

## 7 Steps For ALE Configuration

[Skip to end of metadata](#)

- Created by [Abhijit Zope](#), last modified by Anonymous on [Nov 01, 2011](#)  
[Go to start of metadata](#)

**ALE configuration normally involves the seven basic steps which are :**

1. Creating users for ALE Transfer
2. Creating Logical system and assign the client
3. Creating the RFC
4. Configuring Distribution Model
5. Configuring and checking the port
6. Configuring and checking the partner profile
7. Creating the message type

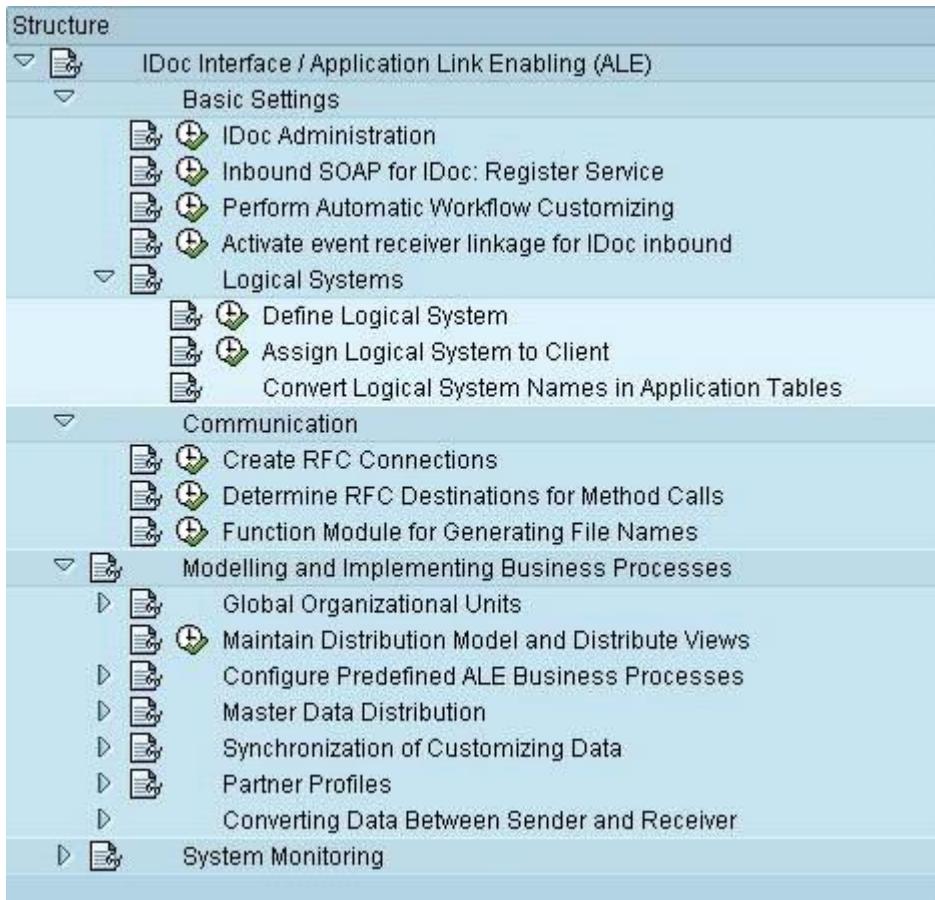
**The steps to configure and use it is mentioned below :**

**Notes: 105 is Sender and 800 Receiver System For Example**

### **1. Create Users for ALE transfer in both receiving and sending client/systems.**

Create users in both the client/systems giving the same user name and proper authorizations. We need to use these user ids to logon through the remote connection and perform the IDOC transfers.

-



## 2. Creating Logical Systems

- o Create logical systems for both sending and receiving systems in both systems.
- o Login to Client 105 (SENDER)
- o Go to T. Code **SALE**
- o Expand Sending and Receiving Systems
- o Expand Logical Systems
- o Click on Define Logical System
- o Click on New Entries
- o Create Logical Systems with naming convention 'system name'+CLNT+client no . For example for sending system ex: SSPCLNT105
- o Create Logical Systems with naming convention 'system name'+CLNT+client no ex: example for receiving system ex SEDCLNT800
- o Save and come back
- o Click on Assign client 105 to Logical system SSPCLNT105
- o Now, logon to client 800, repeat the same above process to create logical systems SEDCLNT800 and SSPCLNT105
- o Save and come back
- o Click on Assign client 800 to Logical system SEDCLNT800

## 3. Creating the RFCS

- o In client 105, Go to T. Code SM59
- o Expand R/3 Connections
- o Enter RFC Name as SSPCLNT105 (give this name same as that of logical name created in step1 so that the ports are automatically created)
- o Connection Type as 3
- o Language as EN
- o Give the logon details for client 800 (usually, we create a new user with proper authorizations for this ALE data transfer)
- o Click on Remote logon button to test the RFC
- o Now, go to client 800 and repeat the same process to create the RFC connection to client 105, giving logon credentials to client 105

#### 4. Creating Customer Distribution Model

(we usually create this in the original system(sending system) and then distribute it to other systems. The actual creation of the model requests that you mention a technical name for the model (unique identifier in the systems landscape), a sender system, a receiver system and message types to exchange between those systems.)

- o In Client 105, Go to T. Code **BD64**
- o Click on change and Create model view button
- o Enter the short text and Technical name as ZSSP\_SED
- o Select the model and click on **Add Message Type** Button,
- o Give the Sender as SSPCLNT105, Receiver as SEDCLNT800,
- o Give Message type as required, Ex: 'HRMD\_A' for HR Module.(usually Message types given by SAP are available for a particular module, see this using tcode WE81, if not create a message type first)
- o **Note:** If we are performing this data transfer task for all modules at a Customer site, then we will need to use the appropriate message type and create a new Distribution model.
- o Select the above model view and click on Environment -> Generate Partner Profiles
- o Select Transfer IDOC Immediately and Trigger Immediately radio buttonsF
- o Click on Execute
- o You should get a list in green color which means it executed successfully.
- o Back to main screen, select the model view
- o Click Edit->Model view->Distribute
- o Click on continue
- o You should get a list saying model view is distributed successfully.

#### 5. Checking the Port

- o In client 105, Go to T. Code **WE21**
- o Expand Transactional RFC
- o Find the port from the list which is created using BD64 for SEDCLNT800 (Receiving system) RFC Destination.

## **6. Checking the Partner Profiles.**

- o In client 105, Go to T. Code **WE20**
- o Expand Partner Type LS
- o Select the Partner profile SEDCLNT800
- o Double click on Message Type (For Ex: In HR Module, HRMD\_A in Outbound parameters.)
- o Check Receiver Port is assigned correctly
- o Check the Basic type as your Basic IDOC object.
- o In the sending system, select the option to transfer IDOCs immediately.
- o By default, in the receiving system IDOCs are bunched together and received.

## **7. Creating the Message Type**

- o Message type defines the 'meaning' of data. It is just a logical entity that gets connected to the Idoc type (in tcode we82) or gets connected to the distribution model (in tcode BD64)
- o If necessary create a new message type. In client 105, go to tcode we81.
- o Click on change, continue
- o Click on New Entries button
- o Give message type in customer namespace Z\* and description
- o Save and back

**Other Link which can be used for ALE Scenario Development Guide is below:**

[ALE Development Guide](#)

- [ale](#)
- [idoc](#)
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- Printed by Atlassian Confluence 6.13.10
- [Report a bug](#)
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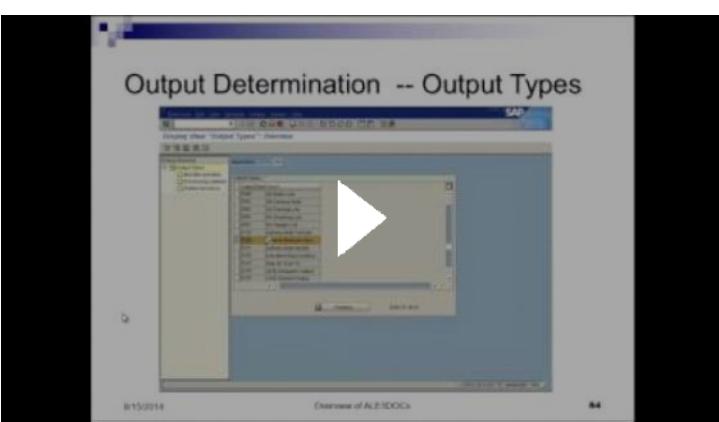
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### SM38 - exclude idoc

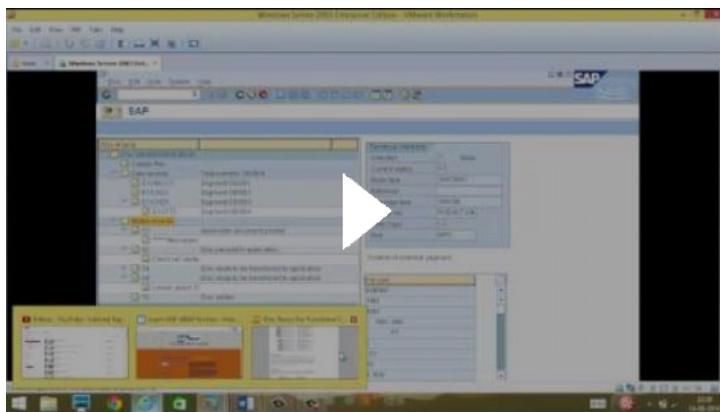
|                                                                                                        |                            |                                                                                                 |
|--------------------------------------------------------------------------------------------------------|----------------------------|-------------------------------------------------------------------------------------------------|
| Program to change status of idoc                                                                       | <b>RC1_IDOC_SET_STATUS</b> | <a href="#">How to change the Status of an Idoc in SAP - SAP EDI</a><br>BHUPAL REDDY            |
| Search an idoc using some specific criteria using segment<br><br>Using a delivery number (for example) | <b>WE09</b>                | <a href="#">How to search an Idoc with Segment Values in SAP WE09 - SAP EDI</a><br>BHUPAL REDDY |

### ALE IDOCs full videos

|   |                                                                                     |
|---|-------------------------------------------------------------------------------------|
| 1 | <a href="#">ALE IDOC- Part 1 - Day 22</a>                                           |
|   |  |

2

[ALE IDOC-Part 2 : Day 22](#)



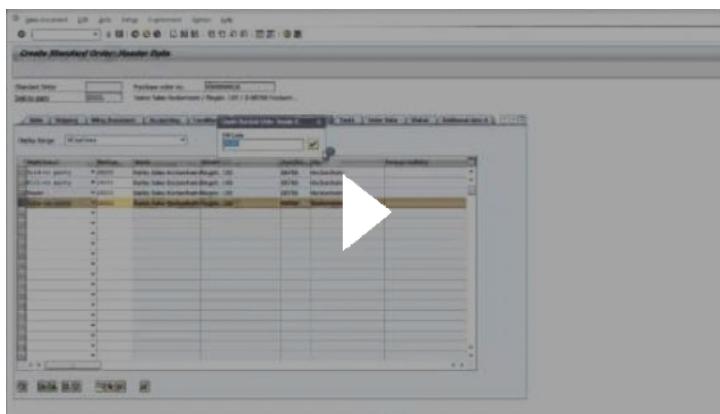
3

[ALE IDOC Part 2 Continued.....Day 23](#)



4

[ALE IDOC- Final - Day 23](#)



## ZQTC\_IDOC\_ERRORS

Friday, May 22, 2020 1:01 PM

|         |                                |
|---------|--------------------------------|
| Subject | <b>ZQTC_IDOC_ERRORS</b>        |
| From    | Madden, Amy                    |
| To      | Wasmer, Andrew J               |
| Sent    | Thursday, May 21, 2020 1:36 PM |

All is working in DEV200 as it was before. See results below.

## ZQTC\_IDOC\_ERRORS

Thursday, May 21, 2020

11:25 AM

To test all IDOC message types are generating report as expected, select testing sales org and change

message type. Should be able to export list.

The screenshot shows the 'IDoc Error Report' interface. It includes sections for 'Selection Parameters' (Sales Organization, Distribution Channel, Agent, Sold to, Payer, Sales Document Type), 'IDoc Properties' (IDoc number, IDoc creation date, IDoc last changed date, IDoc Partner System, IDoc Message Type, eShop Conf Number), and 'IDoc Status' (checkboxes for various status levels). Below these are sections for 'Background processing of IDocs' and 'IDoc Message Type' (with 'Inbound Scheduling Agrpmt Fct' checked). The 'IDoc Category' section lists various categories like Inbound PO's, Outbound Acknowledgements/ASNs, Outbound Invoices, Inbound Remittance, and Inbound eShop.

### Inbound scheduling agreement forecast:

| IDoc Error Report                   |         | Process    | Status | Msg. Type | Created on              | Status | IDoc no. | IDoc Error Text | Customer    | Customer Name | SOrg. | DCh  | SaTy   | Workflow s           | CMIR Name | 4          | Direction | StatText | Receiver | Sender | Purch. Ord. | Vendor | Cust. Matl. | EDI Cum. Q |
|-------------------------------------|---------|------------|--------|-----------|-------------------------|--------|----------|-----------------|-------------|---------------|-------|------|--------|----------------------|-----------|------------|-----------|----------|----------|--------|-------------|--------|-------------|------------|
| <input checked="" type="checkbox"/> | ZDELFOR | 10/17/2019 | 51     | 2414954   | Sales document Sales..  | 327744 | 1248     | 30              | No workflow | 027432609     | 2     | 1248 | 327751 | 5500807626AMM        | 1782      | AM117324   | 21900     |          |          |        |             |        |             |            |
| <input checked="" type="checkbox"/> | ZDELFOR | 10/18/2019 | 51     | 2420599   | Sales document Sales..  | 327744 | 1248     | 30              | No workflow | 027432609     | 2     | 1248 | 327751 | 5500807626AMM        | 1782      | AM117324   | 21900     |          |          |        |             |        |             |            |
| <input checked="" type="checkbox"/> | ZDELFOR | 01/22/2020 | 51     | 2572121   | Update error, transac.. | 327887 | 1248     | 30              | No workflow | 8459          | 2     | 1248 | 328372 | 55007162-164_84780   | 85029     | 84780      | 0         |          |          |        |             |        |             |            |
| <input checked="" type="checkbox"/> | ZDELFOR | 01/27/2020 | 51     | 2597068   | Update error, transac.. | 327887 | 1248     | 30              | No workflow | 8459          | 2     | 1248 | 328372 | 55007162-164_84780   | 85029     | 84780      | 0         |          |          |        |             |        |             |            |
| <input checked="" type="checkbox"/> | ZDELFOR | 01/27/2020 | 51     | 2597069   | Update error, transac.. | 327887 | 1248     | 30              | No workflow | 8459          | 2     | 1248 | 328372 | 55007162-164_73269   | 85029     | 73269      | 100       |          |          |        |             |        |             |            |
| <input checked="" type="checkbox"/> | ZDELFOR | 01/27/2020 | 51     | 2597076   | Sales document Sales..  | 328067 | 1248     | 30              | No workflow | 42615         | 2     | 1248 | 328369 | M626940-645_22337385 | 85029     | 22337385   | 1123      |          |          |        |             |        |             |            |
| <input checked="" type="checkbox"/> | ZDELFOR | 10/17/2019 | 53     | 2414934   | Scheduling agreemen..   | 327329 | 1248     | 30              | No workflow | XE11          | 2     | 1248 | 327694 | 5500655696           | F3470R3   | 526-3825   | 1556      |          |          |        |             |        |             |            |
| <input checked="" type="checkbox"/> | ZDELFOR | 10/17/2019 | 53     | 2414951   | Scheduling agreemen..   | 327743 | 1248     | 30              | No workflow | 608834198     | 2     | 1248 | 327752 | PBM00440647          | 1782      | 51292534   | 12450     |          |          |        |             |        |             |            |
| <input checked="" type="checkbox"/> | ZDELFOR | 10/17/2019 | 53     | 2414953   | Scheduling agreemen..   | 327746 | 1248     | 30              | No workflow | 812751921     | 2     | 1248 | 327749 | 5500784628           | 1782      | SJ13975    | 23700     |          |          |        |             |        |             |            |
| <input checked="" type="checkbox"/> | ZDELFOR | 10/17/2019 | 53     | 2414955   | Scheduling agreemen..   | 327745 | 1248     | 30              | No workflow | 789603131     | 2     | 1248 | 327750 | 5500476932           | 1782      | CB01489674 | 7100      |          |          |        |             |        |             |            |
| <input checked="" type="checkbox"/> | ZDELFOR | 10/17/2019 | 53     | 2418772   | Scheduling agreemen..   | 327328 | 1248     | 30              | No workflow | DTR299        | 2     | 1248 | 327693 | HEUT19957            | F3470R3   | 228-6089   | 28721     |          |          |        |             |        |             |            |
| <input checked="" type="checkbox"/> | ZDELFOR | 10/17/2019 | 53     | 2418773   | Scheduling agreemen..   | 327323 | 1248     | 30              | No workflow | DT3706        | 2     | 1248 | 327698 | FAFE20857            | F3470R3   | 284-3623   | 1900      |          |          |        |             |        |             |            |
| <input checked="" type="checkbox"/> | ZDELFOR | 10/17/2019 | 53     | 2418775   | Scheduling agreemen..   | 327330 | 1248     | 30              | No workflow | DT1170        | 2     | 1248 | 327699 | XAD 56270            | F3470R3   | 223-4778   | 4600      |          |          |        |             |        |             |            |
| <input checked="" type="checkbox"/> | ZDELFOR | 10/18/2019 | 53     | 2420100   | Scheduling agreemen..   | 327744 | 1248     | 30              | No workflow | 027432609     | 2     | 1248 | 327751 | 5500807626AMM        | 1782      | AM117324   | 21900     |          |          |        |             |        |             |            |

Working as expected

### Inbound PO

| IDoc Error Report |         |            |            |            |                    |          |                        |                               |       |      |      |            |            |            |                 |           |                            |
|-------------------|---------|------------|------------|------------|--------------------|----------|------------------------|-------------------------------|-------|------|------|------------|------------|------------|-----------------|-----------|----------------------------|
|                   | Process | Status     | Messg.Type | Created on | Status             | IDoc no. | IDoc Error Text        | Customer/ Customer Partner No | SOrg. | DChl | SaTy | Flash Orde | No Of Item | Value of O | Workflow status | Name 4    | StatText Receiver Part.no. |
|                   | ORDERS  | 01/28/2020 | 53         | 2597091    | Standard Order...  |          |                        | 1248                          | 30    |      |      |            | 1          | 0.00       | No workflow     | 058       | 1248 327689                |
|                   | ORDERS  | 02/10/2020 | 53         | 2618421    | Standard Order...  |          |                        | 1248                          | 30    |      |      |            | 2          | 0.00       | No workflow     | 054768935 | 1248 327748                |
|                   | ORDERS  | 10/20/2019 | 60         | 2420132    |                    |          |                        | 1248                          | 30    |      |      |            | 1          | 0.00       | No workflow     |           | 1248 327697                |
|                   | ORDERS  | 10/20/2019 | 60         | 2420133    |                    |          |                        | 1248                          | 30    |      |      |            | 2          | 0.00       | No workflow     |           | 1248 327697                |
|                   | ORDERS  | 10/18/2019 | 62         | 2420102    |                    |          |                        | 1248                          | 30    | ZOR  |      |            | 1          | 0.00       | No workflow     | 054768935 | 1248 327748                |
|                   | ORDERS  | 10/18/2019 | 62         | 2420103    |                    |          |                        | 1248                          | 30    | ZOR  |      |            | 1          | 0.00       | No workflow     | 054768935 | 1248 327748                |
|                   | ORDERS  | 10/18/2019 | 62         | 2420110    |                    |          |                        | 1248                          | 30    | ZOR  |      |            | 1          | 0.00       | No workflow     | 054768935 | 1248 327748                |
|                   | ORDERS  | 10/18/2019 | 70         | 2420101    |                    |          |                        | 1248                          | 30    | ZOR  |      |            | 1          | 0.00       | No workflow     |           | 1248 327751                |
|                   | ORDERS  | 10/21/2019 | 70         | 2415003    |                    |          |                        | 1248                          | 30    |      |      |            | 2          | 0.00       | No workflow     | 013       | 1248 327697                |
|                   | ORDERS  | 11/12/2019 | 70         | 2490743    |                    |          |                        | 1248                          | 30    |      |      |            | 1          | 0.00       | No workflow     | 054768935 | 1248 327748                |
|                   | ORDERS  | 01/03/2020 | 70         | 2546280    |                    |          | Gopher Electronics Co. | 1248                          | 30    | ZOR  |      |            | 3          | 0.00       | No workflow     | 139846    | 1248 328310                |
|                   | ZDELORD | 10/17/2019 | 51         | 2414952    | There is no arb... |          |                        | 1248                          | 30    |      |      |            | 3          | 0.00       | No workflow     | 608834198 | 1248 327752                |
|                   | ZDELORD | 11/18/2019 | 51         | 2491392    | No scheduling ...  |          |                        | 1248                          | 30    |      |      |            | 4          | 0.00       | No workflow     | 100010578 | 1248 327748                |
|                   | ZDELORD | 11/18/2019 | 51         | 2491397    | Item does not ...  |          |                        | 1248                          | 30    |      |      |            | 4          | 0.00       | No workflow     | 100010578 | 1248 327748                |
|                   | ZDELORD | 11/19/2019 | 51         | 2498275    | No scheduling ...  |          |                        | 1248                          | 30    |      |      |            | 4          | 0.00       | No workflow     | 100010578 | 1248 327748                |
|                   | ZDELORD | 11/19/2019 | 51         | 2498276    | No scheduling ...  |          |                        | 1248                          | 30    |      |      |            | 4          | 0.00       | No workflow     | 100010578 | 1248 327748                |
|                   | ZDELORD | 11/19/2019 | 51         | 2498277    | No scheduling ...  |          |                        | 1248                          | 30    |      |      |            | 4          | 0.00       | No workflow     | 100010578 | 1248 327748                |
|                   | ZDELORD | 11/19/2019 | 51         | 2498278    | No scheduling ...  |          |                        | 1248                          | 30    |      |      |            | 4          | 0.00       | No workflow     | 100010578 | 1248 327748                |
|                   | ZDELORD | 11/21/2019 | 51         | 2504028    | No scheduling ...  |          |                        | 1248                          | 30    |      |      |            | 4          | 0.00       | No workflow     | 100010578 | 1248 327748                |
|                   | ZDELORD | 11/25/2019 | 51         | 2503092    | No scheduling ...  |          |                        | 1248                          | 30    |      |      |            | 4          | 0.00       | No workflow     | 100010578 | 1248 327748                |
|                   | ZDELORD | 11/25/2019 | 51         | 2503093    | No scheduling ...  |          |                        | 1248                          | 30    |      |      |            | 4          | 0.00       | No workflow     | 100010578 | 1248 327791                |
|                   | ZDELORD | 12/11/2019 | 51         | 2540614    | No scheduling ...  |          |                        | 1248                          | 30    |      |      |            | 1          | 0.00       | No workflow     | 789603131 | 1248 327750                |
|                   | ZDELORD | 12/11/2019 | 51         | 2540615    | No scheduling ...  |          |                        | 1248                          | 30    |      |      |            | 1          | 0.00       | No workflow     | 789603131 | 1248 327750                |
|                   | ZDELORD | 12/11/2019 | 51         | 2540616    | No scheduling ...  |          |                        | 1248                          | 30    |      |      |            | 1          | 0.00       | No workflow     | 789603131 | 1248 327750                |
|                   | ZDELORD | 12/11/2019 | 51         | 2540617    | No scheduling ...  |          |                        | 1248                          | 30    |      |      |            | 1          | 0.00       | No workflow     | 789603131 | 1248 327750                |
|                   | ZDELORD | 01/21/2020 | 51         | 2572079    | No scheduling ...  |          |                        | 1248                          | 30    |      |      |            | 4          | 0.00       | No workflow     | 8459      | 1248 328372                |
|                   | ZDELORD | 01/27/2020 | 51         | 2597075    | No scheduling ...  |          |                        | 1248                          | 30    |      |      |            | 1          | 0.00       | No workflow     | 8459      | 1248 328372                |
|                   | ZDELORD | 10/17/2019 | 53         | 2414935    | Delivery Order ... |          |                        | 1248                          | 30    |      |      |            | 2          | 0.00       | No workflow     | XE11      | 1248 327694                |

Working as expected

### Outbound acknowledgements/ASNs

| IDoc Error Report |            |            |              |            |                                                    |          |                 |          |                         |       |      |      |             |        |                          |  |
|-------------------|------------|------------|--------------|------------|----------------------------------------------------|----------|-----------------|----------|-------------------------|-------|------|------|-------------|--------|--------------------------|--|
|                   | Process    | Status     | Message Type | Created on | Status                                             | IDoc no. | IDoc Error Text | Customer | Customer Name 1         | SOrg. | DChl | SaTy | Workflow s  | Name 4 | StatText Receiver Sender |  |
|                   | ORDRSP     | 03/05/2020 | 18           | 2680846    |                                                    |          |                 | 327312   | DAIMLER NORTH AMERICA   | 1248  | 30   |      | No workflow | 013    | 327697 1248              |  |
|                   | ORDRSP     | 03/05/2020 | 18           | 2680855    |                                                    |          |                 | 327312   | DAIMLER NORTH AMERICA   | 1248  | 30   |      | No workflow | 013    | 327697 1248              |  |
|                   | ORDRSP     | 03/05/2020 | 18           | 2680856    |                                                    |          |                 | 327312   | DAIMLER NORTH AMERICA   | 1248  | 30   |      | No workflow | 013    | 327697 1248              |  |
|                   | ORDRSP     | 03/19/2020 | 18           | 2694145    |                                                    |          |                 | 327312   | DAIMLER NORTH AMERICA   | 1248  | 30   |      | No workflow | 013    | 327697 1248              |  |
|                   | ORDRSP     | 12/05/2019 | 20           | 2542588    | Error for Remote Function Call with port 'EDIPORT' |          |                 | 327330   | CATERPILLAR INC         | 1248  | 30   |      | No workflow | DT1170 | 327699 1248              |  |
|                   | ORDRSP     | 12/10/2019 | 20           | 2542929    | Error for Remote Function Call with port 'EDIPORT' |          |                 | 327311   | DAIMLER NORTH AMERICA   | 1248  | 30   |      | No workflow | 004    | 327699 1248              |  |
|                   | ORDRSP     | 12/10/2019 | 20           | 2542930    | Error for Remote Function Call with port 'EDIPORT' |          |                 | 327311   | DAIMLER NORTH AMERICA   | 1248  | 30   |      | No workflow | 004    | 327699 1248              |  |
|                   | ORDRSP     | 12/13/2019 | 20           | 2543499    | Error for Remote Function Call with port 'EDIPORT' |          |                 | 327323   | CATERPILLAR INC         | 1248  | 30   |      | No workflow | DT3706 | 327699 1248              |  |
|                   | ORDRSP     | 12/16/2019 | 20           | 2543805    | Error for Remote Function Call with port 'EDIPORT' |          |                 | 327311   | DAIMLER NORTH AMERICA   | 1248  | 30   |      | No workflow | 004    | 327699 1248              |  |
|                   | Z1SDSHPADV | 10/16/2019 | 03           | 2414520    | Idoc written to file                               |          |                 | 327311   | Customer-Reynosa-EMO-T2 | 1248  |      |      | No workflow | 004    | 327689 1248              |  |
|                   | Z1SDSHPADV | 10/17/2019 | 03           | 2414933    | Idoc written to file                               |          |                 | 327311   | Customer-Reynosa-EMO-T2 | 1248  |      |      | No workflow | 004    | 327689 1248              |  |
|                   | Z1SDSHPADV | 12/03/2019 | 03           | 2539448    | Idoc written to file                               |          |                 | 328356   | Hulk Company Inc        | 1248  |      |      | No workflow |        | 328356 1248              |  |
|                   | Z1SDSHPADV | 10/03/2019 | 18           | 2407075    |                                                    |          |                 | 327311   | Customer-Reynosa-EMO-T2 | 1248  |      |      | No workflow | 004    | 327689 1248              |  |

### Outbound Invoices

| IDoc Error Report |         |            |            |            |                     |          |                         |          |                 |       |      |      |             |                |                          |  |
|-------------------|---------|------------|------------|------------|---------------------|----------|-------------------------|----------|-----------------|-------|------|------|-------------|----------------|--------------------------|--|
|                   | Process | Status     | Messg.Type | Created on | Status              | IDoc no. | IDoc Error Text         | Customer | Customer Name 1 | SOrg. | DChl | SaTy | Workflow s  | Name 4         | StatText Part.no. Sender |  |
|                   | INVOIC  | 10/04/2019 | 03         | 2413832    | Idoc wrtten to file | 327311   | Customer-Reynosa-EMO-T2 | 1248     | 30              |       |      |      | No workflow | 004            | 327689 1248              |  |
|                   | INVOIC  | 10/04/2019 | 03         | 2413833    | Idoc wrtten to file | 327311   | Customer-Reynosa-EMO-T2 | 1248     | 30              |       |      |      | No workflow | 004            | 327689 1248              |  |
|                   | INVOIC  | 10/15/2019 | 03         | 2419032    | Idoc wrtten to file | 327668   | PACCAR - Test 1         | 1248     | 10              |       |      |      | No workflow | PACCAR - Name4 | PQDMC 1248               |  |
|                   | INVOIC  | 11/02/2019 | 03         | 2491028    | Idoc wrtten to file | 327668   | PACCAR - Test 1         | 1248     | 10              |       |      |      | No workflow | PACCAR - Name4 | PQDMC 1248               |  |
|                   | INVOIC  | 11/04/2019 | 03         | 2487185    | Idoc wrtten to file | 327668   | PACCAR - Test 1         | 1248     | 10              |       |      |      | No workflow | PACCAR - Name4 | PQDMC 1248               |  |
|                   | INVOIC  | 11/04/2019 | 03         | 2490416    | Idoc wrtten to file | 327668   | PACCAR - Test 1         | 1248     | 10              |       |      |      | No workflow | PACCAR - Name4 | EMODDC 1248              |  |
|                   | INVOIC  | 11/04/2019 | 03         | 2491052    | Idoc wrtten to file | 327668   | PACCAR - Test 1         | 1248     | 10              |       |      |      | No workflow | PACCAR - Name4 | EMODDC 1248              |  |
|                   | INVOIC  | 11/04/2019 | 03         | 2491053    | Idoc wrtten to file | 327668   | PACCAR - Test 1         | 1248     | 10              |       |      |      | No workflow | PACCAR - Name4 | EMODDC 1248              |  |
|                   | INVOIC  | 11/04/2019 | 03         | 2491054    | Idoc wrtten to file | 327668   | PACCAR - Test 1         | 1248     | 10              |       |      |      | No workflow | PACCAR - Name4 | EMODDC 1248              |  |
|                   | INVOIC  | 11/05/2019 | 03         | 2490488    | Idoc wrtten to file | 327668   | PACCAR - Test 1         | 1248     | 10              |       |      |      | No workflow | PACCAR - Name4 | EMODDC 1248              |  |
|                   | INVOIC  | 10/03/2019 | 18         | 2407926    |                     | 327311   | Customer-Reynosa-EMO-T2 | 1248     | 30              |       |      |      | No workflow | 004            | 327689 1248              |  |
|                   | INVOIC  | 10/03/2019 | 18         | 2413813    |                     | 327311   | Customer-Reynosa-EMO-T2 | 1248     | 30              |       |      |      | No workflow | 004            | 327689 1248              |  |
|                   | INVOIC  | 10/10/2019 | 18         | 2409884    |                     | 327311   | Customer-Reynosa-EMO-T2 | 1248     | 30              |       |      |      | No workflow | 004            | 327689 1248              |  |
|                   | INVOIC  | 10/10/2019 | 18         | 2409890    |                     | 327311   | Customer-Reynosa-EMO-T2 | 1248     | 30              |       |      |      | No workflow | 004            | 327689 1248              |  |

Inbound Remit - no changes, no documents to test, pass

Inbound eShop - no changes, pass

Created with Microsoft OneNote 2016.



## Eaton ES CoE SAP

### Functional Specification

## ZQTC\_IDOC\_ERRORS

#### Document Versions

| Date       | Author     | Description               | Version |
|------------|------------|---------------------------|---------|
| 06/03/2019 | Amy Madden | Initial document creation | 1.0     |

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**1. Request Type Overview:**

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Application</b>         | R3    BW/SEM    SRM    EP/ Web    GTS    Cfolders<br>RedPrairie                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Request Type</b>        | Form    Enhancement    Interface    Report    Workflow    OSS Note<br>Web <b>BW-SEM</b>                                                                                                                                                                                                                                                                                                                                                           |
| <b>Request Type Detail</b> | Form :    SAPScript    Smartform    Adobe    Loftware<br>Enhancement : User Exits    Others<br>Interface :    Inbound    Outbound<br>Type :    ALE    EDI    BAPI    RFC    Others<br>Report :    Classical    ALV    Others<br>Web :    HTML    EP    BSP    WCMS<br>SharePoint    WebDynpro .NET    Others    SQL<br>BW-SEM:    Report - BEX    Report - Web    Planning    Extractor<br>Infoprovider    Infoobject    Transformation    Others |

| Version | Development Type          | Ticket / Project | Global Testing  | Severity        | Requested date of completion |
|---------|---------------------------|------------------|-----------------|-----------------|------------------------------|
| 1.0     | <b>Enhancement/Change</b> | PRJ49950         | Yes             | Low             | MM/DD/YY                     |
|         | Choose an item.           |                  | Choose an item. | Choose an item. |                              |
|         | Choose an item.           |                  | Choose an item. | Choose an item. |                              |
|         | Choose an item.           |                  | Choose an item. | Choose an item. |                              |
|         | Choose an item.           |                  | Choose an item. | Choose an item. |                              |
|         | Choose an item.           |                  | Choose an item. | Choose an item. |                              |
|         | Choose an item.           |                  | Choose an item. | Choose an item. |                              |
|         | Choose an item.           |                  | Choose an item. | Choose an item. |                              |
|         | Choose an item.           |                  | Choose an item. | Choose an item. |                              |

**2. Contact Information:**

| Contact Title                                  | Name       | Email                                                        | Phone        |
|------------------------------------------------|------------|--------------------------------------------------------------|--------------|
| Functional Spec Owner                          | Amy Madden | <a href="mailto:amymadden@eaton.com">amymadden@eaton.com</a> | 971-272-7061 |
| Contact person that developer should work with | Amy Madden | <a href="mailto:amymadden@eaton.com">Amymadden@eaton.com</a> | 971-272-7061 |
| Others                                         |            |                                                              |              |

### 3. Functional Team sign off

I agree that this document is complete and approved for Development. Any changes to this document should be reflected in the version history section and re-approved by the functional team.

| Version | Name        | Title | Functional Area | Date      |
|---------|-------------|-------|-----------------|-----------|
| 1.0     | Cahal Lyden |       | QTC             | 9/19/2019 |
|         |             |       |                 |           |
|         |             |       |                 |           |
|         |             |       |                 |           |
|         |             |       |                 |           |

### 4. Overview of Current Functionality:

*Responsibility: FT, BU (Required for Fix or Enhancement / Change)*

**Start of version 1.0**

ZQTC\_IDOC\_ERRORS is an IDOC Error Report that is currently used for Flash Orders and eShop. The report is broken out in to sales area selection parameters, IDOC properties, and IDOC message types creating a seamless use for all inbound and outbound IDOCs.

**IDoc Error Report**

**End of version 1.0**

### 5. Overview of Desired Functionality:

*Responsibility: FT, BU (Required for New Development, Fix and Enhancement/ Change)*

**Start of version 1.0**

Reynosa will be using IDOC message types that are currently not in this report. Adding in these basic IDOC message types will expand the functionality from eShop/Flash specific IDOCs to a complete IDOC monitoring system for Reynosa and other businesses. If this program is sales organization specific, we need to add sales org 1248 to the selection.

**IDoc Error Report**

**Selection Parameters**

Sales Organization  
Distribution Channel  
Agent  
Sold to  
Payer  
Sales Document Type

**IDoc Properties**

IDoc number  
IDoc creation date  
IDoc last changed date  
eShop Conf Number

**IDoc Status**

IDoc Status  
Add selection for:  
Partner System  
Message Type

**IDoc Category**

- Inbound Processing of IDocs
- IDoc Message Type**
- Inbound PO's** Add "Inbound Scheduling agreement forecast" for IDOC type ZDELFOR
- Outbound Acknowledgements/ASNs** Add IDOC type ZDELORD and ORDERS
- Outbound Invoices** Add IDOC type ORDRSP for 856s and Z1SDSHPADV for 856s
- Outbound Remittance** Add IDOC type INVOIC for 810s
- Inbound eShop** Add IDOC type INVOIC for 810s

#### IDOC Properties

In the IDOC Properties selection, requesting to add "Partner System" and "Message Type" like it exists in BD87 to increase selection filters for an EDI Coordinator up front. These values are found in the control record of the IDOC (EDI\_DC40).

**Select IDocs**

**IDoc Number**

**Created On**

**Created At**

**Changed On**

**Changed At**

**IDoc Status**

**Partner System**

**Selection Options for IDoc**

**Message Type**

**Business Object**

**Object Key**

#### IDOC Message Type

##### Inbound Scheduling Agreement Forecast

Need new selection button added for "Inbound Scheduling Agreement Forecast" and tie that to the IDOC message type "ZDELFOR." The layout of this report can mirror the current report layout of ZSDR\_EDI for the ZDELFOR message type.

##### Inbound PO's

Add IDOC type ZDELORD and ORDERS to the program for this selection.

##### Outbound Acknowledgments/ASNs

Add IDOC type ORDRSP for 856s (Order Acknowledgements) and Z1SDSHPADV for 856s (ASNs) for this selection.

##### Outbound Invoices

Add IDOC message type INVOIC for 810s (invoices) for this selection.

#### Report Layout

In the current layout of the reports, add customer material number on layout and the NAME4 field of the sold-to party (AG partner of IDOC).

**End of version 1.0**

## 6. Request Type: Forms

### 1. Output Details

**Responsibility:** FT

(In most cases the given objects associated with the output are configured in the IMG by output type. The following information should be provided per the output type)

- Output Type** (required for New Development, Fix and Enhancement / Change)
- Form Name** (Sapscript Name/ Smartform Name / etc) – (required for Fix and Enhancement / Change)
- Print Program Name** – (required for Fix and Enhancement / Change)

### 2. Details of Output Changes, New Output, or Problem with Existing Output

**Responsibility:** FT, BU

- For an Existing output document, provide details of what changes or fixes should be made. Print an existing document (and scan, send to a PDF, etc) and mark up the document as to what changes are needed. – **(required for Fix and Enhancement / Change)**
- For a new output document, provide a layout of what the new form should look like. **(required for New Development)**
- For new fields, provide source of these fields. This can either be provided as technical field names or screen shots showing where the source data is coming from. If screen shots, embed a document of the screen shots in this section of the Functional Spec. - **(required for New Development, Fix and Enhancement / Change)**

### 3. Test Instructions

**Responsibility:** FT, BU **(Required for New Development, Fix and Enhancement / Change)**

*(Provide instructions and a test example of how to print the given document.)*

- Transaction Code**
- Document Number**
- Instructions or screen shots showing the screen navigations.** If screen shots, embed a document of the screen shots in this section of the Functional Spec.
- System and Client Details (QAS050/ DEV200 etc)**
- For any additional test data to be provided click the link [Test Scenario for Test Matrix](#)

## 7. Request Type: Enhancement

### 1. Enhancement Details

**Responsibility:** FT and DT **(Required for New Development, Fix and Enhancement / Change)**

*In most of the cases the requirement is related to specific division, in scenarios like that, please provide details of the division impacted and the required entries maintained on the user-exit tables.*

**Start of version 1.0**

- Transaction: ZQTC\_IDOC\_ERRORS
- Program: ZQTC REP\_IDOC\_ERRORS

| SAP data         |                 |
|------------------|-----------------|
| Repository data  |                 |
| Transaction      | ZQTC_IDOC_ERRRO |
| Program          | ZQTC REP_IDOC_- |
| Program (screen) | ZQTC REP_IDOC_- |
| Screen number    | 1000            |
| Program (GUI)    | RSSYSTDB        |
| GUI status       | %_00            |

- Transaction is currently used for eShop orders. Will expand use to other IDOC types common to quote to cash applications as detailed above.

**End of version 1.0**

### 2. Test Instructions

**Responsibility:** FT, BU **(Required for New Development, Fix and Enhancement / Change)**

*(Provide instructions/screen shots and a test example or steps to simulate the issue for analysis)*

**Start of version 1.0**

- Transaction: ZQTC\_IDOC\_ERRORS
- Document Number: Perform search by message type
- Instructions or screen shots showing the screen navigations
- System and Client Details (QAS050/ DEV200 etc)
- For any additional test data to be provided click the link [Test Scenario for Test Matrix](#)

**End of version 1.0**

## 8. Request Type: Interface

**Responsibility:** FT, BU

### 1. Inbound

- Name of the inbound update program - **(Required for Fix and Enhancement / Change)**
- Specify the application server details and location from where the file will be read. **(Required for New Development, Fix and Enhancement / Change)**
- Specify the incoming file layout will look like (indicate if it is fixed width or delimited file). **(Required for New Development, Fix and Enhancement / Change)**
- Indicate how a user would normally update this type of data into SAP – specify transaction code, navigation steps etc as applicable. Attach word documents containing screen shots to this document. **(Required for New Development, Fix and Enhancement / Change)**
- Provide details of what changes have been requested. **(Required for Fix and Enhancement / Change)**

### 2. Outbound

- Name of the outbound extract program **(Required for Fix and Enhancement / Change)**

- Specify the application server details and location where the file will be sent. (*Required for New Development, Fix and Enhancement / Change*)
- Specify what the file layout should look like (indicate if it is fixed width or delimited file). (*Required for New Development, Fix and Enhancement / Change*)
- What are the Selection screen parameters for the extraction program (*Required for New Development*)
- Provide details of what changes have been requested. (*Required for Fix and Enhancement / Change*)
- Source of the fields that would be mapped into the file record layout. This can either be provided as technical field names or screen shots showing where the source data is coming from. (*Required for New Development, Fix and Enhancement / Change – if the coding involves the record layout*)
- Provide variant or details how the extract is produced. (*Required for Fix and Enhancement / Change*)

### 3. Test Instructions

**Responsibility:** FT, BU (*Required for New Development, Fix and Enhancement / Change*)

(*Provide instructions/screenshots and a test example or steps to simulate the issue for analysis*)

- Provide test data along with System and Client Details (QAS050/ DEV200 etc) - (*Required for New Development, Fix and Enhancement / Change*)
- For any additional test data to be provided click the link [Test Scenario](#) for Test Matrix

### 4. Interface Frequency

**Responsibility:** BU

(*Required for New Development*)

(*Provide information on the frequency and mode of Execution of the Interface*)

- Frequency of Execution – Multiple times per day or daily or month end
- Mode of execution - Foreground or Background
- Is transaction needed to run the program? If you intend to run the program yourself as opposed to it always running in a regular scheduled job, a new transaction code should be created to run the given program.

## 9. Request Type: Report

### 1. Report Details

**Responsibility:** FT, BU

Start of version 1.0

- For new reports or changes to the existing reports, provide report layout specifying column headings, subtotals, totals, any special formatting, sorting etc and attach a document as how you want the report to look like to this Functional specification document. - (*Required for New Development, Fix and Enhancement / Change*)
  - Add column headings for "CMIR" and "NAME4"
  - No special formatting or totals needed
- Source of the fields.
  - Add following fields to current report layout:
    - "CMIR":IDTNR

| Segments with Errors        |                        |
|-----------------------------|------------------------|
| IDoc display                | Additional information |
| • IDoc 000000257865984      |                        |
| • Control Rec.              |                        |
| • Data records              | Total number: 000020   |
| • E1EDK01                   | Segment 000001         |
| • E1EDK14 019               | Segment 000002         |
| • E1EDK14 012               | Segment 000003         |
| • E1EDK14 008               | Segment 000004         |
| • E1EDK14 007               | Segment 000005         |
| • E1EDK14 006               | Segment 000006         |
| • E1EDK03 040               | Segment 000007         |
| • E1EDKA1 AG                | Segment 000008         |
| • E1EDKA1 WE                | Segment 000009         |
| • E1EDKA1 LF                | Segment 000010         |
| • E1EDKA1 WK                | Segment 000011         |
| • E1EDK02 001               | Segment 000012         |
| • E1EDP01                   | Segment 000013         |
| • E1EDP02 044               | Segment 000014         |
| • E1EDP03 001               | Segment 000015         |
| • E1EDP19 001               | Segment 000016         |
| • E1EDPT1 2014              | Segment 000017         |
| • E1EDPT1 Z021              | Segment 000019         |
| Short Technical Information |                        |
| Direction                   | 2 In                   |
| Current Status              | 56                     |
| Basic type                  | ORDERS                 |
| Extension                   |                        |
| Message Type                | ZDELOR                 |
| Partner No.                 | 749382                 |
| Partn.Type                  | KU                     |
| Port                        | SI                     |
| Content of Selected Segment |                        |
| Fld Name                    | Fld Cont.              |
| QUALF                       | 001                    |
| IDTNR                       | 348-7842               |

- "NAME4":LIFNR

| IDoc Display: 0000000257865984                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Segments with Errors                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                     |
| IDoc display                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Additional information                                                                              |
| <ul style="list-style-type: none"> <li>▪ Control Rec.</li> <li>▪ Data records Total number: 000020                     <ul style="list-style-type: none"> <li>▪ E1EDK01 Segment 000001</li> <li>▪ E1EDK14 019 Segment 000002</li> <li>▪ E1EDK14 012 Segment 000003</li> <li>▪ E1EDK14 008 Segment 000004</li> <li>▪ E1EDK14 007 Segment 000005</li> <li>▪ E1EDK14 006 Segment 000006</li> <li>▪ E1EDK03 040 Segment 000007</li> <li>▪ <b>E1EDKA1 AG</b> Segment 000008</li> <li>▪ E1EDKA1 WE Segment 000009</li> <li>▪ E1EDKA1 LF Segment 000010</li> <li>▪ E1EDKA1 WK Segment 000011</li> <li>▪ E1EDK02 001 Segment 000012</li> <li>▪ E1EDP01 Segment 000013</li> <li>▪ E1EDP02 044 Segment 000014</li> <li>▪ E1EDP03 001 Segment 000015</li> <li>▪ E1EDP19 001 Segment 000016</li> <li>▪ E1EDPT1 Z014 Segment 000017</li> <li>▪ E1EDPT1 Z021 Segment 000019</li> </ul> </li> <li>▪ Status records</li> </ul> | Short Technical Information                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Direction 2                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Current Status 56  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Basic type ORDER                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Extension                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Message Type ZDELFC                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Partner No. 74938                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Partn.Type KU                                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Port SI                                                                                             |
| Content of Selected Segment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                     |
| Fld Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Fld Cont.                                                                                           |
| PARVW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | AG                                                                                                  |
| LIFNR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1600                                                                                                |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                     |

- Add new layout for ZDELFOR IDOC type:

- Copy from ZSDR\_EDI, ZDELFOR Message Type:

| EDI Sales Order Monitoring by Division Report |                                                                                               |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------|
| 212402 001 0000000257865984                   | Edi header: Date of Info: Purchaser Order Number: Document party name: M1923001 Correl. Queen |
| 212402 002 2                                  | Scheduling agree 0000073014 06/07/2019 HEUTZB24 2116832 OTT289 509-1125 2                     |
| 212402 003 2                                  | Scheduling agree 0000073014 06/07/2019 HEUTZB24 2116832 OTT289 509-1125 2                     |
| 212402 004 2                                  | Scheduling agree 0000073014 06/07/2019 HEUTZB24 2116832 OTT289 509-1125 2                     |
| 212402 005 2                                  | Scheduling agree 0000073014 06/07/2019 HEUTZB24 2116832 OTT289 509-1125 2                     |
| 212402 006 2                                  | Scheduling agree 0000073014 06/07/2019 HEUTZB24 2116832 OTT289 509-1125 2                     |
| 212402 007 2                                  | The old doc. info.                                                                            |
| 212402 008 2                                  | Customer material 0000080045 09/12/2019 000000103590 000004215 H1 05920418 96000              |
| 212402 009 2                                  | Customer material 0000080045 09/12/2019 000000103590 000004215 H1 05920418 96000              |
| 212402 010 2                                  | Customer material 0000080045 09/12/2019 000000103590 000004215 H1 05920418 96000              |
| 212402 011 2                                  | Customer material 0000080045 09/12/2019 000000103590 000004215 H1 05920418 96000              |
| 212402 012 2                                  | Customer material 0000080045 09/12/2019 000000103590 000004215 H1 05920418 96000              |
| 212402 013 2                                  | Customer material 0000080045 09/12/2019 000000103590 000004215 H1 05920418 96000              |
| 212402 014 2                                  | Customer material 0000080045 09/12/2019 000000103590 000004215 H1 05920418 96000              |
| 212402 015 2                                  | Customer material 0000080045 09/12/2019 000000103590 000004215 H1 05920418 96000              |
| 212402 016 2                                  | ECO Receiver port 0000080045 09/12/2019 000000103590 000004215 H1 05920418 96000              |
| 212402 017 2                                  | Status receive with 0000080045 09/12/2019 000000103590 000004215 H1 05920418 96000            |
| 212402 018 2                                  | Task 0000080045 09/12/2019 000000103590 000004215 H1 05920418 96000                           |
| 212402 019 2                                  | Current order cur. 0000080045 09/12/2019 000000103590 000004215 H1 05920418 96000             |
| 212402 020 2                                  | Sele document S 0000080045 09/12/2019 000000103590 000004215 H1 05920418 96000                |
| 212402 021 2                                  | Sele document E 0000080045 09/12/2019 000000103590 000004215 H1 05920418 96000                |
| 212402 022 2                                  | Sele document E 0000080045 09/12/2019 000000103590 000004215 H1 05920418 96000                |
| 212402 023 2                                  | Sele document E 0000080045 09/12/2019 000000103590 000004215 H1 05920418 96000                |
| 212402 024 2                                  | Sele document E 0000080045 09/12/2019 000000103590 000004215 H1 05920418 96000                |
| 212402 025 2                                  | Sele document E 0000080045 09/12/2019 000000103590 000004215 H1 05920418 96000                |
| 212402 026 2                                  | Sele document E 0000080045 09/12/2019 000000103590 000004215 H1 05920418 96000                |
| 212402 027 2                                  | Sele document E 0000080045 09/12/2019 000000103590 000004215 H1 05920418 96000                |
| 212402 028 2                                  | Sele document S 0000080045 09/12/2019 000000103590 000004215 X5 05920418 2000                 |
| 212402 029 2                                  | Sele document S 0000080045 09/12/2019 000000103590 000004215 X5 05920418 127                  |
| 212402 030 2                                  | Sele document S 0000080045 09/12/2019 000000103590 000004215 X5 05920418 200                  |
| 212402 031 2                                  | Sele document S 0000080045 09/12/2019 000000103590 000004215 X5 05920418 200                  |
| 212402 032 2                                  | Sele document S 0000080045 09/12/2019 000000103590 000004215 X5 05920418 200                  |

| SAP data               |                     |
|------------------------|---------------------|
| <b>Repository data</b> |                     |
| Transaction            | ZSDR_EDI            |
| Program (screen)       | SAPLSLVC_FULLSCREEN |
| Screen number          | 500                 |
| Program (GUI)          | SAPLKKBL            |
| GUI status             | STANDARD_FULLSCREEN |

- Program: SAPLSLVC\_FULLSCREEN
- Fields included:
  - IDOC#, Status, Direction, and Message Type:

| Display Control Record                                                                                                                     |                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| IDoc Display                                                                                                                               |                                                                                                                        |
| IDoc number                                                                                                                                | 275812372                                                                                                              |
| Direction                                                                                                                                  | 2  Inbound                          |
| Status                                                                                                                                     | 51  Application document not posted |
| <a href="#">Type...</a> <a href="#">Partner...</a> <a href="#">Techn.info...</a> <a href="#">Addressinfo...</a> <a href="#">Details...</a> |                                                                                                                        |
| IDoc type information                                                                                                                      |                                                                                                                        |
| Basic type                                                                                                                                 | DELFOR02                                                                                                               |
| Extension                                                                                                                                  |                                                                                                                        |
| IDoc Type                                                                                                                                  |                                                                                                                        |
| Logical message description                                                                                                                |                                                                                                                        |
| Message Type                                                                                                                               | ZDELFC                                                                                                                 |
| Delivery schedule Creation/Change for component supplier                                                                                   |                                                                                                                        |
| Message function                                                                                                                           |                                                                                                                        |
| <input type="checkbox"/> Test Flag                                                                                                         |                                                                                                                        |

- Status message

**IDoc Display: 0000000275812372**

Segments with Errors   

| IDoc display                                                               | Additional Information                      |
|----------------------------------------------------------------------------|---------------------------------------------|
| • IDoc 0000000275812372                                                    | Total number: 000006                        |
| - Control Rec.                                                             | Application document not posted             |
| - Data records                                                             |                                             |
| - Status records                                                           |                                             |
| - 51                                                                       | IDoc passed to application                  |
| - 64                                                                       | IDoc ready to be transferred to application |
| - 50                                                                       | IDoc added                                  |
| - Release no. 349 has already been allowed for in scheduling agreement 300 |                                             |

- EDI Hierarchy and Sales Org:

**Display Control Record**

IDoc Display

|             |           |                                 |   |         |
|-------------|-----------|---------------------------------|---|---------|
| IDoc number | 275812372 | Direction                       | 2 | Inbound |
| Status      | 51        | Application document not posted |   |         |

Typ... Partner Techn.info Adressinfo Details

**Recipient information**

|                |        |                        |
|----------------|--------|------------------------|
| Prt            | SAPP47 | Prt for User Migration |
| Partner Number | 1234   | Sales Org              |
| Partn.Type     | LS     | Logical system         |
| Function       |        |                        |

**Sender information**

|                |        |                          |
|----------------|--------|--------------------------|
| Port           | SI     | EDI Hierarchy            |
| Partner number | 422312 | PACCAR OF CANADA C STOCK |
| Partn.Type     | KU     | Customer                 |
| Partner Role   |        |                          |

- Date of IDOC

**Display Control Record**

IDoc Display

|             |           |                                 |   |         |
|-------------|-----------|---------------------------------|---|---------|
| IDoc number | 275812372 | Direction                       | 2 | Inbound |
| Status      | 51        | Application document not posted |   |         |

Typ... Partner Techn.info Adressinfo Details

**Info about IDoc**

|               |     |
|---------------|-----|
| SAP Release   | 740 |
| Output Mode   |     |
| Serialization |     |

**Time of creation**

|      |            |
|------|------------|
| Date | 09/15/2019 |
| Time | 02:10:00   |

**Last database update**

|      |            |
|------|------------|
| Date | 09/15/2019 |
| Time | 02:10:03   |

- Purchase Order

E1EDK09\_VTRNR:

**IDoc Display: 0000000275812372**

Segments with Errors   

| IDoc display            | Additional Information | Short Technical Information                                                                           |
|-------------------------|------------------------|-------------------------------------------------------------------------------------------------------|
| • IDoc 0000000275812372 | Total number: 000006   | Direction 2 Inbox                                                                                     |
| - Control Rec.          | Segment 000001         | Current Status 51  |
| - Data records          | Segment 000002         | Basic type DELFOR02                                                                                   |
| - E1EDK09               | Segment 000003         | Extension                                                                                             |
| - E1EDKA1 AG            | Segment 000004         | Message Type ZDELFOR                                                                                  |
| - E1EDKA1 LF            | Segment 000005         | Partner No. 422312                                                                                    |
| - E1EDKA1 WK            |                        | Partn.Type KU                                                                                         |
| - E1EDP10               |                        | Port SI                                                                                               |
| - Status records        |                        |                                                                                                       |

**Content of Selected Segment**

|          |              |
|----------|--------------|
| Fld Name | Fld Cont.    |
| VTRNR    | NPAN12059017 |
| BSTUR    | 20190914     |
| LABWK    | 349          |
| ABRVW    | 001          |

- Vendor number

E1EDKA1 LF\_PARTN

**IDoc Display: 0000000275812372**

Segments with Errors   

| IDoc display            | Additional Information | Short Technical Information                                                                           |
|-------------------------|------------------------|-------------------------------------------------------------------------------------------------------|
| • IDoc 0000000275812372 | Total number: 000006   | Direction 2 Inbox                                                                                     |
| - Control Rec.          | Segment 000001         | Current Status 51  |
| - Data records          | Segment 000002         | Basic type DELFOR02                                                                                   |
| - E1EDK09               | Segment 000003         | Extension                                                                                             |
| - E1EDKA1 LF            | Segment 000004         | Message Type ZDELFOR                                                                                  |
| - E1EDKA1 WK            | Segment 000005         | Partner No. 422312                                                                                    |
| - E1EDP10               |                        | Partn.Type KU                                                                                         |
| - Status records        |                        | Port SI                                                                                               |

**Content of Selected Segment**

|          |            |
|----------|------------|
| Fld Name | Fld Cont.  |
| PABWK    | LF         |
| PARTN    | 0000001234 |
| BNAME    | 18030AD    |

- Sold-to party name4

E1EDKA1 AG\_LIFNR

IDoc Display: 0000000275812372

| Segments with Errors        |                      | Additional Information | Short Technical Information |
|-----------------------------|----------------------|------------------------|-----------------------------|
| Doc display                 | Doc 0000000275812372 | Total number: 000006   | Direction: 21 Inbox         |
| Control Rec.                |                      | Segment 000001         | Current Status: 51          |
| Data records                |                      | Segment 000002         | Basic type: DELFOR02        |
| - E1EDK09                   |                      | Segment 000003         | Extension:                  |
| - E1EDKA1 AG                |                      | Segment 000004         | Message Type: IDELFOR       |
| - E1EDKA1 LF                |                      | Segment 000005         | Partner No.: 422312         |
| - E1EDKA1 WK                |                      |                        | Partn.Type: KU              |
| - E1EDP05                   |                      |                        | Port: 01                    |
| Status records              |                      |                        |                             |
| Content of Selected Segment |                      |                        |                             |
| Fld Name                    | Fld Cont.            |                        |                             |
| LIFNR                       | CH04                 |                        |                             |

- customer material number

E1EDP10\_IDNKD

IDoc Display: 0000000275812372

| Segments with Errors        |                      | Additional Information | Short Technical Information |
|-----------------------------|----------------------|------------------------|-----------------------------|
| Doc display                 | Doc 0000000275812372 | Total number: 000006   | Direction: 21 Inbox         |
| Control Rec.                |                      | Segment 000001         | Current Status: 51          |
| Data records                |                      | Segment 000002         | Basic type: DELFOR02        |
| - E1EDK09                   |                      | Segment 000003         | Extension:                  |
| - E1EDKA1 AG                |                      | Segment 000004         | Message Type: IDELFOR       |
| - E1EDKA1 LF                |                      | Segment 000005         | Partner No.: 422312         |
| - E1EDKA1 WK                |                      |                        | Partn.Type: KU              |
| - E1EDP05                   |                      |                        | Port: 01                    |
| Status records              |                      |                        |                             |
| Content of Selected Segment |                      |                        |                             |
| Fld Name                    | Fld Cont.            |                        |                             |
| IDNKD                       | 16-07470-020         |                        |                             |
| VBRKRS                      | 00                   |                        |                             |
| ARTITEM                     | 500                  |                        |                             |
| ABRAB                       | 20190916             |                        |                             |
| ABRBI                       | 20190922             |                        |                             |
| BCKEL                       | 03                   |                        |                             |
| POSEX                       | 0000010              |                        |                             |

- EDI cumulative quantity

E1EDP10\_AKUEM

IDoc Display: 0000000275812372

| Segments with Errors        |                      | Additional Information | Short Technical Information |
|-----------------------------|----------------------|------------------------|-----------------------------|
| Doc display                 | Doc 0000000275812372 | Total number: 000006   | Direction: 21 Inbox         |
| Control Rec.                |                      | Segment 000001         | Current Status: 51          |
| Data records                |                      | Segment 000002         | Basic type: DELFOR02        |
| - E1EDK09                   |                      | Segment 000003         | Extension:                  |
| - E1EDKA1 AG                |                      | Segment 000004         | Message Type: IDELFOR       |
| - E1EDKA1 LF                |                      | Segment 000005         | Partner No.: 422312         |
| - E1EDKA1 WK                |                      |                        | Partn.Type: KU              |
| - E1EDP05                   |                      |                        | Port: 01                    |
| Status records              |                      |                        |                             |
| Content of Selected Segment |                      |                        |                             |
| Fld Name                    | Fld Cont.            |                        |                             |
| IDNKD                       | 16-07470-020         |                        |                             |
| ARTITEM                     | 500                  |                        |                             |
| ABRAB                       | 20190922             |                        |                             |
| ABRBI                       | 20190922             |                        |                             |
| BCKEL                       | 03                   |                        |                             |
| POSEX                       | 0000010              |                        |                             |

**End of version 1.0**

## 2. Report Frequency

**Responsibility: BU**

(Required for New Development)

(Provide information on the frequency and mode of Execution of the Report)

- Frequency of Execution – Multiple times per day or daily or month end

- Mode of execution - Foreground or Background.

- Is transaction needed to run the program? If you intend to run the program yourself as opposed to it always running in a regular scheduled job, a new transaction code should be created to run the given program.

## 3. Download requirements

**Responsibility: FT, BU**

(Required for New Development, Fix and Enhancement / Change)

(Provide details if the requirement is to download report)

**Start of version 1.0**

- Option for the file(s) to be downloaded to an excel spreadsheet or TXT output

**End of version 1.0**

## 4. Test Instructions

**Responsibility: FT, BU**

**Start of version 1.0**

- Provide Transaction Code / report name

- ZQTC\_IDOC\_ERRORS

- Create Selection screen variant for test scenarios where applicable - (Required for Fix and Enhancement / Change)

- To test for all "eMobility" variants

- Provide test data along with System and Client Details (QAS050/ DEV200 etc) (Required for New Development, Fix and Enhancement / Change)

- For any additional test data to be provided click the link [Test Scenario](#) for Test Matrix

**End of version 1.0**

## 10. Request type: Workflow

**Responsibility:** FT, BU

(Required for New Development, Fix and Enhancement / Change)

### 1. Process Details

- Provide the flow chart of the entire business process
- Specify if there are any specific conditions with which you need the workflow to trigger
- Provide details if the design requires notifications/approvals through outlook
- The process flow chart must also include if any deadline monitoring is required
- Attach a spreadsheet with information on routing – please provide the user names and their SAP IDs to whom the workflow needs to be routed.

### 2. Test Instructions

(Provide instructions/screenshots for testing end to end process – this should align with the flow chart that has been provided in point 11.1 above)

- Instructions or screen shots showing the screen navigations
- System and Client Details (QAS050/ DEV200 etc)
- For any additional test data to be provided click the link [Test Scenario](#) for Test Matrix

## 11. Request type: OSS Note

### 1. Oss Note Details

**Responsibility:** FT

- Oss note number (Please attach PDF version of OSS Note here) If there are prerequisite notes required please list and attach these notes here as well.
- Explanation of why the OSS Note needs to be applied.
- Has it been confirmed that the OSS Note is valid for our current release?

### 2. Test Instructions (Optional)

**Responsibility:** FT, BU

- Transaction Code
- Document Number
- Instructions or screen shots showing the screen navigations
- System and Client Details (QAS050/ DEV200 etc)
- For any additional test data to be provided click the link [Test Scenario](#) for Test Matrix

## 12. Request type: Web Development

### 1. Business Process Logic

**Responsibility:** FT, BU

(Required for New Development, Fix and Enhancement / Change)

- Provide details about the user types (actors) in the process
- Provide the flow chart of the entire business process, if applicable
- Provide page flow logic

### 2. User Interface

**Responsibility:** FT, BU

(Required for New Development, Fix and Enhancement / Change)

#### 1. Web Page Definition and mockup

- Provide an overview of the screen/form
- Provide screen mockup or wireframe if available
- Provide a list of validations

#### 2. Field Details

- Provide a list of screen fields

| Field Name | Data Type / UI Element | Required / Optional | Description |
|------------|------------------------|---------------------|-------------|
|            |                        |                     |             |

### 3. SAP Integration

**Responsibility:** FT, BU

(Required for New Development, Fix and Enhancement / Change)

1. **BAPIs and RFCs used**
    - Provide a list of BAPIs and RFCs used
    - Provide a mapping between the RFCs and Screens
  
  2. **Web Service**
    - Provide a list of web services used
    - Provide a mapping between the web service and Screens
  
  4. **System / Application Integration (other than SAP and Web Services)**  
*Responsibility: FT, BU  
(Required for New Development)*
    - Use this section to provide details about point to point integration required for internal/external systems (Eg: Orbitz, Concur, QuickQuote etc)
  
  5. **Test Scenarios and data**  
*Responsibility: FT, BU*
    - Provide a detailed list of test scenarios and data
    - For any additional test data to be provided click the link [Test Scenario](#) for Test Matrix
- 13. Request Type: BW-SEM**
1. **Report Details**  
*Responsibility: FT, BU*
    - For existing reports - Technical name and description of the report to be changed *(Required for Fix and Enhancement / Change)*
    - For new reports or changes to the existing reports, provide report layout specifying column headings, selection variables, free characteristic, default layout. *(Required for New Development, Fix and Enhancement / Change)*
    - Specify changes or new key figures to be added – Provide details of logics for the calculated fields (calculations, restrictions to be applied etc.) *(Required for New Development, Fix and Enhancement / Change)*
    - Specify if any of the key figures requires currency conversion – if yes what exchange rate type should be used. *(Required for New Development, Fix and Enhancement / Change)*
    - Specify if any field in the report has to use a specific hierarchy, if yes source of the hierarchy *(Required for New Development, Fix and Enhancement / Change)*
    - Specify how the report will be executed (BEX, Insidecooper -> Reporting), if not specify the requirements *(Required for New Development, Fix and Enhancement / Change)*
  
  2. **Report Frequency**  
*Responsibility: BU  
(Required for New Development)*
    - Frequency of Execution – Report refresh frequency – specify how frequently users will be using the report in BW (Daily/ weekly/ month end, yearend)
  
  3. **Data**  
*Responsibility: FT, BU*
    - Source of the fields. Provide the technical field names and screenshots if applicable. *(Required for New Development, Fix and Enhancement / Change)*
    - Data load frequency *(Required for New Development)*
    - History data requirement – Do you need data updated for historic data, if yes how long example (current year, previous year, from day one) *(Required for New Development, Fix and Enhancement / Change)*
    - What is the data volume expected for this. *(Required for New Development)*
    - Archive – Is any portion of data being requested is already archived in Source system *(Required for New Development)*
  
  4. **Test Instructions**  
*Responsibility: FT, BU*
    - Create Selection screen variant to reproduce the issue if applicable - *(Required for Fix and Enhancement / Change)*
    - Provide test data along with System and Client Details (QAS050/ DEV200 etc) *(Required for New Development, Fix and Enhancement / Change)*
    - If source of the data is SAP – list all key transactions that will be used in validation. Provide the flow chart of the entire business process, if applicable *(Required for New Development, Fix and Enhancement / Change)*
    - Specific scenarios that could impact the report and need to be considered in BW – example – deletion, reversals, returns, etc. *(Required for New Development, Fix and Enhancement / Change)*
    - For any additional test data to be provided click the link [Test Scenario](#) for Test Matrix.

**14. Security Profile & Authorization**  
*Responsibility: FT, BU (Required for New Development, Fix and Enhancement / Change)*

**1. Non Web Security (Roles/ Authorization)**  
**Start of version 1.0**

- Specify fields in which authorization checks should be performed (eg: plant, sales org, etc.)
  - Maintain current EDI security roles to this transaction. No changes required.  
**End of version 1.0**

**2. Web Security (Roles / Authorization)**

- Placeholder for required Security roles / Authorization (if any)

## **15. Test Scenario**

| Step No | Description | Expected Results |
|---------|-------------|------------------|
|         |             |                  |

**Document Template Versions**

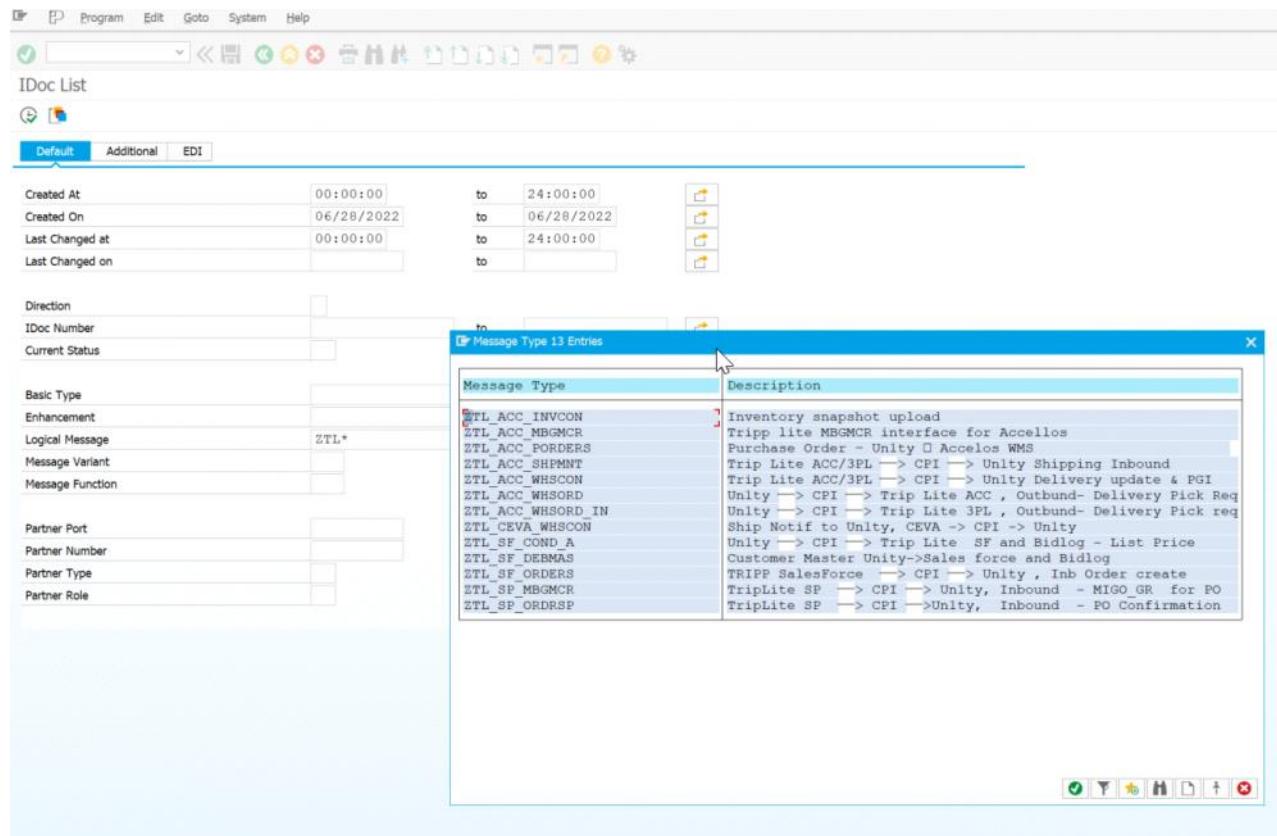
| Date        | Author           | Description                                                               | Version |
|-------------|------------------|---------------------------------------------------------------------------|---------|
| Aug-15-2015 | Malcolm Corrigan | Initial document creation                                                 | 3.0     |
| Aug-26-2015 | Mike Gieringer   | Allow for versions & approvals by version, Added section 11 for OSS Notes | 3.1     |

From <[http://teams.etn.com/es/SAPUn1tyCOESite/FRICE/FRICE%20Documents/FS\\_QTC\\_EDI\\_ZQTC\\_IDOC\\_ERRORS.docm](http://teams.etn.com/es/SAPUn1tyCOESite/FRICE/FRICE%20Documents/FS_QTC_EDI_ZQTC_IDOC_ERRORS.docm)>

# Tripp IDocs

Tuesday, June 28, 2022 5:48 PM

Logic Message or Message type: ZTL\_\*



Ports

Port Edit Goto System Help

Ports in IDoc processing

| Ports             | Description                   |
|-------------------|-------------------------------|
| Ports             |                               |
| Transactional RFC |                               |
| File              |                               |
| CPI-C             |                               |
| ABAP-PI           |                               |
| ACE_PQ_BRG        | ACE PQ Bridge IDOC Filterin   |
| BUS_VAS           | Bussmann CDC Vastara Outb     |
| BUS_WMS_O         | Bussmann CDC WMS Interfa      |
| BUS_ZKE           | Bussmann ZKE Consignment      |
| CHTADCWMS         | Cooper Tools(ADC) Int. outb   |
| CHTSDWMS          | Cooper Tools(SWD) Int. outb   |
| CWD_VAS_M         | CWD Conversion of Vastara     |
| EDI_HT2ASN        | Pallet level ASN- used with h |
| EDI_PORT1         | TO WRITE idoc into flat file  |
| EDI_ZKE           | Create ZKE sales order        |
| HD_PORT           | test for ASN to Home Depot    |
| IDEA_FFILE        | IDEA 845 & 849 Flat files     |
| IDEA_FFLQ         | IDEA 845 & 849 Flat files     |
| TEST1             | test                          |
| ZBOMMAT           | Port for Daylight Bommat ID   |
| ZCHT_WMS          | Cooper Tools Interface outb   |
| XML File          |                               |
| XML_DACHSE        | Dachser file adapter for Mika |
| XML_DHL_GB        | Unity-DHL File Adapter for G  |
| XML_ETNBRG        | Unity-Oracle-Bridge file ade  |
| XML_MYWAY         | Myway file adapter for Mywa   |
| XML_SAMEX         | Unity-SAME file adapter for   |
| XML_SI            | Unity-SI file to SI           |
| XML_SI_SAN        | XML file to SI for Santak Mai |
| XML_VEJLE         | Vejle file adapter outgoing X |
| XML HTTP          |                               |
| CIGPORT           | SAP Ariba Cloud Integration   |
| <b>CPI</b>        | Cloud Platform Integration    |
| CPI_OB_API        | For SalesFroce Project - 537- |

Port **CPI** Cloud Platform Integration

Description: Cloud Platform Integration

RFC destination: HCI\_TEST\_IDOC

Content Type: Text/XML

HTTP Version: Version 1.0

SOAP Protocol:

Port Options:

| Description                                          | Value |
|------------------------------------------------------|-------|
| No Initial Values for DATS, TIMS, NUMC for Alignment |       |
| Send Dynamic Enhancement Segments                    |       |

# How to copy a IDOC

Monday, July 11, 2022 5:37 PM

WE19?

# How to monitor incoming idocs

Monday, July 11, 2022 5:37 PM

BD87

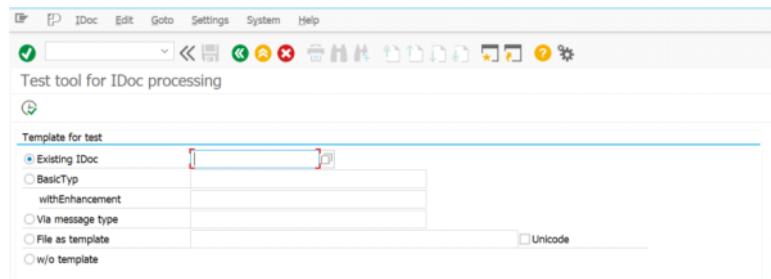
# IDOC important transactions

Wednesday, July 13, 2022 9:11 PM

## We19 - IDOC testing tool

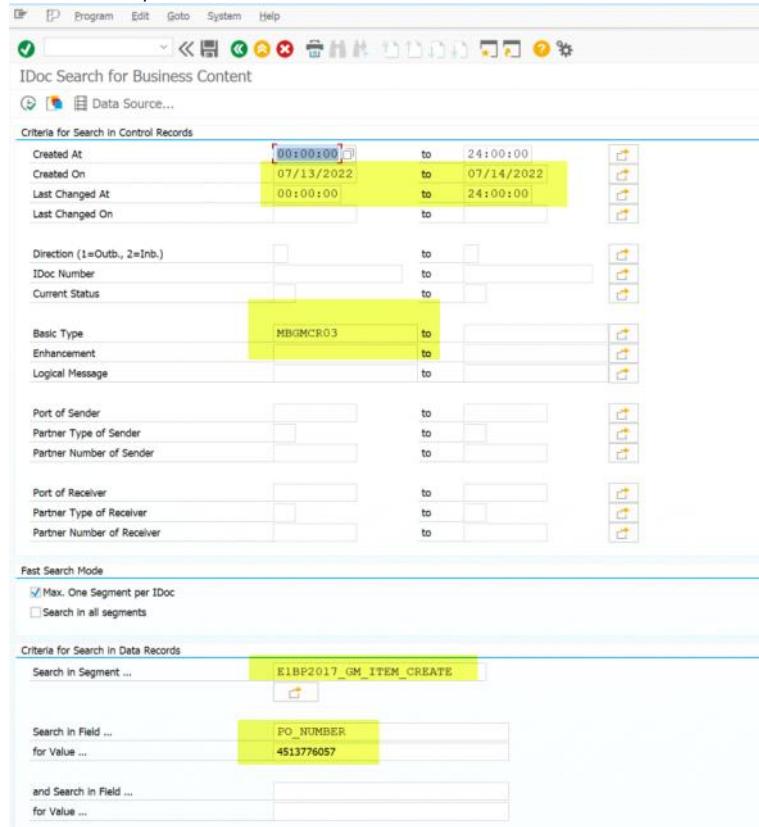
Copy an idoc

Manual idoc processing - inbound or outbound



## We09 - IDOC search for Business content:-

You can search by field content



| IDoc number      | Date       | Time     | Direction | Partner Number          | Message level | Status Descr.                   | IDoc Type      | Msg-Type | Text | Port |
|------------------|------------|----------|-----------|-------------------------|---------------|---------------------------------|----------------|----------|------|------|
| 0000000539877468 | 07/10/2022 | 20:46:08 | I         | /L0_TRIP                | 53            | Application document posted     | ZTL_ACC_MBGMCR | SAPP47   |      |      |
| 0000000539877468 | 07/10/2022 | 20:46:08 | I         | E1B90HCR                | 1             |                                 |                |          |      |      |
| 0000000539877468 | 07/10/2022 | 20:46:08 | I         | E1B92017_GN_HEAD_01     | 1             | 2                               |                |          |      |      |
| 0000000539877468 | 07/10/2022 | 20:46:08 | I         | E1B92017_GN_CODE        | 1             | 2                               |                |          |      |      |
| 0000000539877468 | 07/10/2022 | 20:46:08 | I         | E1B92017_GN_ITEM_CREATE | 1             | 2                               |                |          |      |      |
| 0000000539877454 | 07/10/2022 | 20:47:07 | I         | /L0_TRIP                | 51            | Application document not posted | ZTL_ACC_MBGMCR | SAPP47   |      |      |
| 0000000539877461 | 07/10/2022 | 20:48:07 | I         | /L0_TRIP                | 53            | Application document posted     | ZTL_ACC_MBGMCR | SAPP47   |      |      |
| 0000000539877467 | 07/10/2022 | 20:49:07 | I         | /L0_TRIP                | 53            | Application document posted     | ZTL_ACC_MBGMCR | SAPP47   |      |      |
| 0000000539877467 | 07/10/2022 | 20:49:07 | I         | E1B90HCR                | 1             |                                 |                |          |      |      |
| 0000000539877467 | 07/10/2022 | 20:49:07 | I         | E1B92017_GN_HEAD_01     | 1             | 2                               |                |          |      |      |
| 0000000539877467 | 07/10/2022 | 20:49:07 | I         | E1B92017_GN_CODE        | 1             | 2                               |                |          |      |      |
| 0000000539877467 | 07/10/2022 | 20:49:07 | I         | E1B92017_GN_ITEM_CREATE | 1             | 2                               |                |          |      |      |
| 0000000539877473 | 07/10/2022 | 20:50:07 | I         | /L0_TRIP                | 53            | Application document posted     | ZTL_ACC_MBGMCR | SAPP47   |      |      |
| 0000000539877479 | 07/10/2022 | 20:51:07 | I         | /L0_TRIP                | 53            | Application document posted     | ZTL_ACC_MBGMCR | SAPP47   |      |      |
| 0000000539877485 | 07/10/2022 | 20:52:07 | I         | /L0_TRIP                | 53            | Application document posted     | ZTL_ACC_MBGMCR | SAPP47   |      |      |
| 0000000539877491 | 07/10/2022 | 20:53:07 | I         | /L0_TRIP                | 53            | Application document posted     | ZTL_ACC_MBGMCR | SAPP47   |      |      |
| 0000000539877496 | 07/10/2022 | 20:54:07 | I         | /L0_TRIP                | 53            | Application document posted     | ZTL_ACC_MBGMCR | SAPP47   |      |      |
| 0000000539877496 | 07/10/2022 | 20:54:07 | I         | E1B90HCR                | 1             |                                 |                |          |      |      |
| 0000000539877496 | 07/10/2022 | 20:54:07 | I         | E1B92017_GN_HEAD_01     | 1             | 2                               |                |          |      |      |
| 0000000539877496 | 07/10/2022 | 20:54:07 | I         | E1B92017_GN_CODE        | 1             | 2                               |                |          |      |      |
| 0000000539877496 | 07/10/2022 | 20:54:07 | I         | E1B92017_GN_ITEM_CREATE | 1             | 2                               |                |          |      |      |
| 0000000539877704 | 07/10/2022 | 20:55:07 | I         | /L0_TRIP                | 53            | Application document posted     | ZTL_ACC_MBGMCR | SAPP47   |      |      |
| 0000000539877710 | 07/10/2022 | 20:56:07 | I         | /L0_TRIP                | 53            | Application document posted     | ZTL_ACC_MBGMCR | SAPP47   |      |      |
| 0000000539877716 | 07/10/2022 | 20:57:07 | I         | /L0_TRIP                | 53            | Application document posted     | ZTL_ACC_MBGMCR | SAPP47   |      |      |
| 0000000539877722 | 07/10/2022 | 20:58:07 | I         | /L0_TRIP                | 53            | Application document posted     | ZTL_ACC_MBGMCR | SAPP47   |      |      |
| 0000000539877729 | 07/10/2022 | 20:59:07 | I         | /L0_TRIP                | 53            | Application document posted     | ZTL_ACC_MBGMCR | SAPP47   |      |      |

## BD87 (status monitor for ALE / IDOC messages)

Monitor incoming IDOCs

| IDOCs                                                               | IDOC STATUS | Number |
|---------------------------------------------------------------------|-------------|--------|
| <b>▼ IDoc selection</b>                                             |             |        |
| • <b>▼</b> Changed on is in the range 07/10/2022 to 07/10/2022      |             |        |
| • <b>▼</b> Last Changed At is in the range 00:00:00 to 21:00:00     |             |        |
| • <b>▼</b> Message Type is equal to ZTL_ACC_WHSCON                  |             |        |
| ✓ R/3 PRD, P47 Client 100                                           |             |        |
| ✓ IDoc In inbound processing                                        |             |        |
| ● Application document not posted                                   | 51          | 14     |
| ● Application document posted                                       | 53          | 14     |
| ● ZTL_ACC_WHSCON                                                    |             | 13     |
| ● VL(198) : Item 8 & Only 82 &3 from material 8/4 are available     |             | 13     |
| ● Item 000010: Only 1,152.000 EA from material JP8479 are available |             | 13     |
| ● ZTL_ACC_WHSCON                                                    |             | 1      |
| ● VL(242) : Delivery & changed                                      |             | 1      |
| ● Delivery 8803167979 changed                                       |             | 1      |

## WE20 (Partner Profile - TrippLite) :-

**Partner profiles**

Partner No.: LS\_TRIP Logical System for TRIP and Bid Log  
Partn.Type: LS Logical system

Post processing: permitted agent Classification Telephony

Ty.: Work Center  
Agent: 10000098 EDI IDoc Administration  
Lang.: EN English

Outbound parmrts.

| Partner Role | Message Type      | Message variant | MessageFunction | Test | Receiver port | 1... Pack... | Basic type |
|--------------|-------------------|-----------------|-----------------|------|---------------|--------------|------------|
| LS           | ZTL_SF_COND_A     |                 |                 |      | CPI_OB_API    | 0            | COND_A02   |
| LS           | ZTL_SF_DEBMAS     |                 |                 |      | CPI_OB_API    | 0            | DEBMAS07   |
| LS           | INVOIC            |                 |                 |      | CPI_OB_API    | 0            | INVOIC02   |
| LS           | ZMTT_MBGMCR       |                 |                 |      | SAP_F47       | 1            | MBGMCR02   |
| LS           | ZTL_ACC_PORDERS   |                 |                 |      | CPI_OB_API    | 0            | ORDERS05   |
| LS           | ZTL_ACC_WHSGRD    |                 |                 |      | CPI_OB_API    | 0            | DELVRY03   |
| LS           | ZTL_ACC_WHSGRD_IN |                 |                 |      | CPI_OB_API    | 0            | DELVRY03   |

Inbound parmrts.

| Partner Role | Message Type    | Message variant | MessageFunction | Test | P... Process code |
|--------------|-----------------|-----------------|-----------------|------|-------------------|
| LS           | ZTL_ACC_INVCON  |                 |                 |      | INVC              |
| LS           | ZTL_ACC_MBGMCR  |                 |                 |      | BAPI              |
| LS           | ZTL_ACC_SHPMINT |                 |                 |      | SHPM              |
| LS           | ZTL_ACC_WHSCON  |                 |                 |      | DELV              |
| LS           | ZTL_ACC_WHSCON  |                 |                 |      | DELV              |
| LS           | ZTL_SF_ORDERS   |                 |                 |      | ORDE              |
| LS           | ZTL_SP_ORDRSP   |                 |                 |      | ORDR              |
| LS           | ZTL_ACC_MBGMCR  |                 |                 |      | BAPI              |

## WE02 - Search and Display IDoc

IDoc List

Default Additional EDI

Created At: 00:00:00 to 24:00:00  
Created On: 07/14/2022 to 07/14/2022  
Last Changed at: 00:00:00 to 24:00:00  
Last Changed on:

Direction:

IDoc Number:   
Current Status:

Basic Type:

Enhancement:

Logical Message:

Message Variant:

Message Function:

Partner Port:

Partner Number:

Partner Type:

Partner Role:

See all search results...

Message Types for Trip

|                   |                                                              |
|-------------------|--------------------------------------------------------------|
| ZTL_*             | Description                                                  |
| ZTL_ACC_INVCON    | Inventory snapshot upload                                    |
| ZTL_ACC_MBGMCR    | Trip Lite MBGMCR Interface for Accelos                       |
| ZTL_ACC_PORDERS   | Purchase Order - Unity - Accelos WMS                         |
| ZTL_ACC_SHPMINT   | Trip Lite ACC/3PL --> CPI --> Unity Shipping Inbound         |
| ZTL_ACC_WHSCON    | Trip Lite ACC/3PL --> CPI --> Unity Delivery update & PGI    |
| ZTL_ACC_WHSGRD    | Unity --> CPI --> Trip Lite ACC , Outbund- Delivery Pick req |
| ZTL_ACC_WHSGRD_IN | Unity --> CPI --> Trip Lite 3PL , Outbund- Delivery Pick req |
| ZTL_SF_COND_A     | Unity --> CPI --> Trip Lite SF and Bidlog - List Price       |
| ZTL_SF_DEBMAS     | Customer Master Unity->Sales force and Bidlog                |
| ZTL_SF_ORDERS     | TRIPP SalesForce --> CPI --> Unity , Inv Order create        |

Program Edit Goto System Help

IDoc List

Default Additional EDI

|                  |                                         |    |                                         |                                    |
|------------------|-----------------------------------------|----|-----------------------------------------|------------------------------------|
| Created At       | <input type="text" value="00:00:00"/>   | to | <input type="text" value="24:00:00"/>   | <input type="button" value="..."/> |
| Created On       | <input type="text" value="07/14/2022"/> | to | <input type="text" value="07/14/2022"/> | <input type="button" value="..."/> |
| Last Changed at  | <input type="text" value="00:00:00"/>   | to | <input type="text" value="24:00:00"/>   | <input type="button" value="..."/> |
| Last Changed on  | <input type="text"/>                    | to | <input type="text"/>                    | <input type="button" value="..."/> |
| Direction        | <input type="checkbox"/>                | to | <input type="checkbox"/>                | <input type="button" value="..."/> |
| IDoc Number      | <input type="text"/>                    | to | <input type="text"/>                    | <input type="button" value="..."/> |
| Current Status   | <input type="text"/>                    | to | <input type="text"/>                    | <input type="button" value="..."/> |
| Basic Type       | <input type="checkbox"/>                | to | <input type="checkbox"/>                | <input type="button" value="..."/> |
| Enhancement      | <input type="checkbox"/>                | to | <input type="checkbox"/>                | <input type="button" value="..."/> |
| Logical Message  | ZTL_ACC_MBGMCR                          | to | <input type="checkbox"/>                | <input type="button" value="..."/> |
| Message Variant  | <input type="checkbox"/>                | to | <input type="checkbox"/>                | <input type="button" value="..."/> |
| Message Function | <input type="checkbox"/>                | to | <input type="checkbox"/>                | <input type="button" value="..."/> |
| Partner Port     | <input type="text"/>                    | to | <input type="text"/>                    | <input type="button" value="..."/> |
| Partner Number   | <input type="text"/>                    | to | <input type="text"/>                    | <input type="button" value="..."/> |
| Partner Type     | <input type="text"/>                    | to | <input type="text"/>                    | <input type="button" value="..."/> |
| Partner Role     | <input type="text"/>                    | to | <input type="text"/>                    | <input type="button" value="..."/> |

IDoc Display Edit Goto System Help

IDoc List

Selected IDocs

| IDocs          | Number   |
|----------------|----------|
| Selected IDocs | 00000005 |
| Inbound IDocs  | 00000000 |
| ZTL_ACC_MBGMCR | 00000006 |
| Status         | 53       |
|                | 00000006 |

Selected IDocs

| IDoc Number      | Status | Status Date created | Time created | Basic type | Messg.Type | Changed on | Time       | Partner  | Dir Direction | Port | Identification |    |
|------------------|--------|---------------------|--------------|------------|------------|------------|------------|----------|---------------|------|----------------|----|
| 0000000540933837 | 53     | OO█                 | 07/14/2022   | 10:20:04   | MBGMCR03   | ZTL_ACC    | 07/14/2022 | 10:20:05 | LS/ /LS_TRIP  | 2    | Inbox          | LS |
| 0000000540889012 | 53     | OO█                 | 07/14/2022   | 05:30:07   | MBGMCR03   | ZTL_ACC    | 07/14/2022 | 05:30:15 | LS/ /LS_TRIP  | 2    | Inbox          | LS |
| 0000000540889009 | 53     | OO█                 | 07/14/2022   | 05:30:05   | MBGMCR03   | ZTL_ACC    | 07/14/2022 | 05:31:57 | LS/ /LS_TRIP  | 2    | Inbox          | LS |
| 0000000540889010 | 53     | OO█                 | 07/14/2022   | 05:30:05   | MBGMCR03   | ZTL_ACC    | 07/14/2022 | 05:30:09 | LS/ /LS_TRIP  | 2    | Inbox          | LS |
| 0000000540889017 | 53     | OO█                 | 07/14/2022   | 05:00:06   | MBGMCR03   | ZTL_ACC    | 07/14/2022 | 05:00:08 | LS/ /LS_TRIP  | 2    | Inbox          | LS |
| 0000000540889016 | 53     | OO█                 | 07/14/2022   | 05:00:05   | MBGMCR03   | ZTL_ACC    | 07/14/2022 | 05:00:06 | LS/ /LS_TRIP  | 2    | Inbox          | LS |

### CPI Monitor Message Processing

SAP Cloud Integration

Overview / Monitor Message Processing

Time: Past Month Status: All Artifact: Picking Packing and GI Confirmation in SAP ID: Message, Correlation or Application Mess...

Jun 13, 2022, 14:17:02 - Jul 13, 2022, 14:17:02 Use More Fields

Messages (3006) Picking Packing and GI Confirmation in SAP Last Updated at: Jul 13, 2022, 13:10:06

| Artifact Name                              | Status        |
|--------------------------------------------|---------------|
| Picking Packing and GI Confirmation in SAP | Completed     |
| Jul 13, 2022, 13:11:17                     | 13 sec 303 ms |
| Picking Packing and GI Confirmation in SAP | Completed     |
| Jul 13, 2022, 13:10:06                     | 2 sec 467 ms  |
| Picking Packing and GI Confirmation in SAP | Completed     |
| Jul 12, 2022, 18:51:04                     |               |
| Picking Packing and GI Confirmation in SAP | Completed     |
| Jul 12, 2022, 18:41:16                     | 1 sec 70 ms   |
| Picking Packing and GI Confirmation in SAP | Completed     |
| Jul 12, 2022, 18:41:14                     | 447 ms        |
| Picking Packing and GI Confirmation in SAP | Completed     |

Message processing completed successfully.

Processing Time: 2 sec 467 ms

Properties

Custom Headers (1)

| Name              | Value      |
|-------------------|------------|
| Unique Identifier | 8803168512 |

Logs

Andriyala\_Ramesh is here to search

Request control People Chat Reactions Apps More Camera

Integration Advisor

2:18 PM 7/13/2022

# IDoc Basics For Functional Consultants | SAP Blogs

Wednesday, February 8, 2023 5:07 PM

Clipped from: <https://blogs.sap.com/2012/12/31/idoc-basics-for-functional-consultants/>

## ABSTRACT

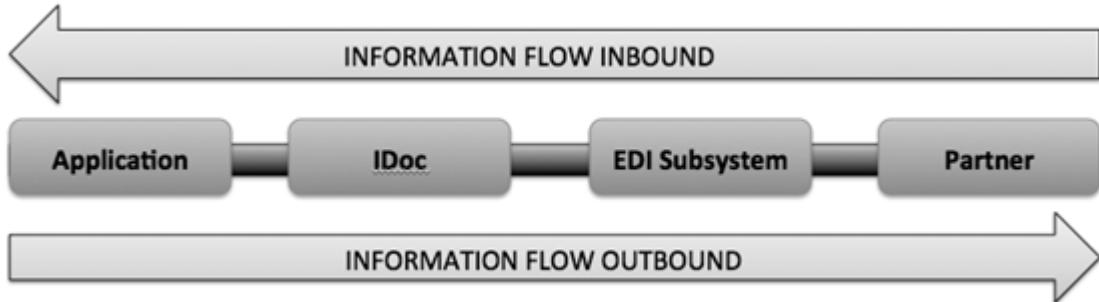
Today IDocs are used in most SAP applications for transfer of message(information) from SAP system to other systems and vice versa. Though lot of documentation is available on IDocs it is difficult for a functional consultant to understand such documents due to their technical nature. While a functional consultant is not expected to know the IDoc concepts in its entirety, an effort has been made to capture the minimum necessary information that one needs to be aware of in order to handle project/support issues on IDocs.

## OVERVIEW

IDoc is an SAP object that carries data of a business transaction from one system to another in the form of electronic message. IDoc is an acronym for **I**ntermediate **D**ocument. The purpose of an IDoc is to transfer data or information from SAP to other systems and vice versa. The transfer from SAP to non-SAP system is done via EDI (Electronic Data Interchange) subsystems whereas for transfer between two SAP systems, ALE is used.

IDoc can be triggered in SAP system or in EDI subsystem. This depends on the direction in which IDoc is sent and is called as Inbound IDoc and Outbound IDoc accordingly. In case of outbound flow, IDoc is triggered in SAP through document message control which is then sent to EDI subsystem. EDI converts the data from IDoc into XML or equivalent format and then sends the data to partner system through Internet.

For inbound flow, EDI converts partner data and IDoc is created in SAP. After successful processing of this IDoc, Application Document is posted in SAP.



## EDI STANDARDS AND IDOC

"EDI is electronic exchange of business document between the computer systems of business partners, using a standard format over a communication network". EDI stands for **E**lectronic **D**ata **I**nterchange.

For transmission of information electronically, two widely used standards are ANSI ASC X12 and EDIFACT. ANSI ASC X12 is a committee formed by representatives of major organizations, government bodies and EDI software companies which defines standards and guidelines for information interchange over EDI. UN/EDIFACT stands for United Nations EDI for Administration, commerce and Transport and was formed in 1985 using ANSI X12 and UNTDI (United Nations Trade Data interchange) as base standards. ANSI X12 describes business document as transactions and each transaction is represented by three digit number e.g. 850 – Purchase Order, 855 – Purchase Order Acknowledgement. EDIFACT describes business document as messages, represented by standard names e.g. ORDERS for purchase order.

## IDOC TERMINOLOGIES

### ***IDOC (BASIC) TYPE***

IDoc Types are based on the EDI standards and mostly on EDIFACT standards.

Basic Types (or IDoc Type) defines the structure of an IDoc. Each basic type describes standard IDoc segments, format of data fields and their size. Basic Type also defines number of segments and fields in an IDoc. All the fields that are necessary for transmission of message for a particular business transaction are mapped in different segments. It also defines the structure and relationship of IDoc segments along with mandatory and optional segments.

## Basic Type: ORDERS05

| ORDERS05  | Purchasing/Sales                                    |
|-----------|-----------------------------------------------------|
| E1EDK01   | IDoc : Document Header General Data                 |
| E1EDK14   | IDoc : Document Header Organizational Data          |
| E1EDK03   | IDoc : Document Header Date Segment                 |
| E1EDK04   | IDoc : Document Header Taxes                        |
| E1EDK05   | IDoc : Document Header Conditions                   |
| + E1EDKA1 | IDoc : Document Header Partner Information          |
| E1EDK18   | IDoc : Document Header Terms of Payment             |
| - E1EDP01 | IDoc : Document Item General Data                   |
| E1EDP02   | IDoc : Document Item General Data                   |
| E1CUREF   | CU: Reference order item/ instance in configuration |
| E1ADDI1   | IDoc Additionals                                    |
| E1EDP03   | IDoc : Document Item Date Segment                   |
| E1EDP04   | IDoc : Document Item Taxes                          |
| E1EDP05   | IDoc : Document Item Conditions                     |
| E1EDP20   | IDoc Schedule Lines                                 |

## IDOC EXTENSION

Basic type contains all the standard fields that are necessary for carrying out a business transaction. However, if any additional values are to be sent to the partner then we can make use of the IDoc Extension feature. IDoc extension is extension of basic type and contains additional custom IDoc segments and fields that are not available in standard basic type.

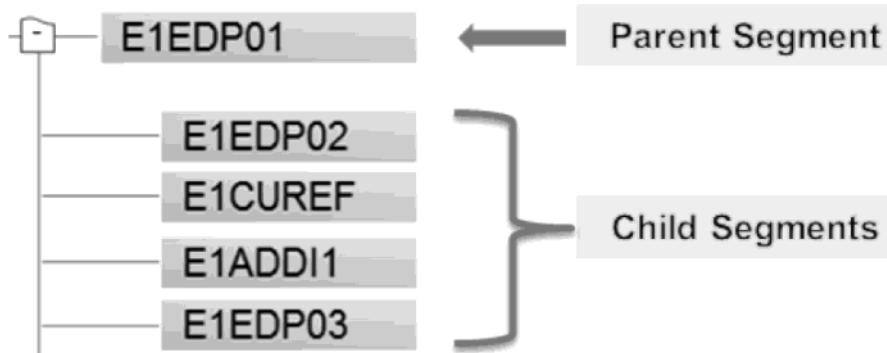
## IDOC SEGMENTS

IDoc segments contain the actual data that is **sent to** or **received from** a partner. These segments contain the actual values that are sent as part of IDoc transmission.

| E1EDP02    |             | IDOC Segment |
|------------|-------------|--------------|
| Field Name | Field Value |              |
| WMENG      | 1           |              |
| AMENG      | 0           |              |
| EDATU      | 20120909    |              |

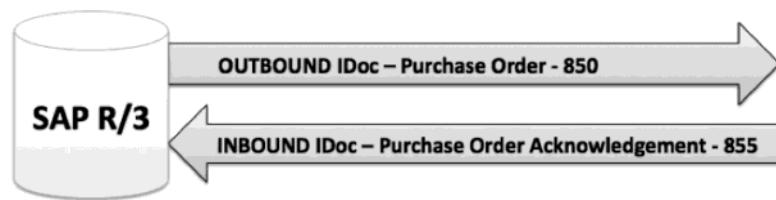
## PARENT AND CHILD SEGMENTS

IDoc segment is termed as Parent segment if it contains its own segments. The dependent segments are called as child segments.



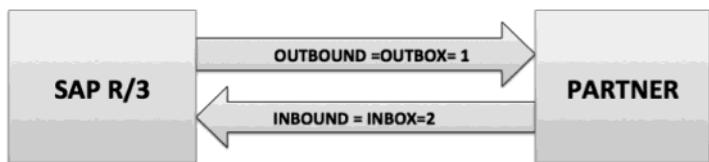
## ***INBOUND/OUTBOUND IDOCS***

IDocs sent outside the system are termed as Outbound IDocs and the ones that are received into the system, are called as Inbound IDocs.



## ***IDOC DIRECTION***

This signifies the direction in which information is sent and is similar to terminology used in mails. If information is sent outside the system then the direction is outbox when it is received into the system then direction is inbox. In SAP Outbox direction is represented by "1" i.e. outbox and Inbox direction is represented by "2".



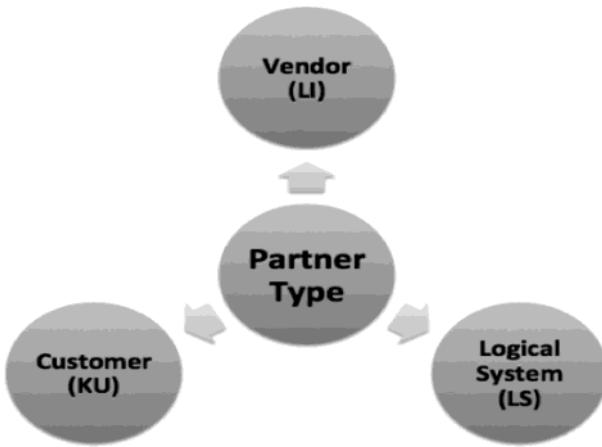
## ***PARTNER***

Partner is the Business Partner with which the exchange of information is to take place using IDoc. It can be a vendor or customer or any other system. Depending on the direction of information in which the information is sent it plays a role of either a "sending partner" or a "receiving partner".



### **PARTNER TYPE**

Partner type/role is used to identify partners within the sap systems. Partner type is KU for customer, LI for vendor and LS for Logical System.




---

### **MESSAGE TYPE**

IDoc processing involves transmission or receipt of document in the form of a message, each of which represents a document in SAP. These documents can be Order, Shipment Confirmation, Advance Shipping Notification, Goods Receipt, or Invoice. Message type is associated with Basic IDoc Type (Basic Type) and defines the kind of data or document that is exchanged with the partner.

### **PROCESS CODE**

The process code contains the details of the Function Module that are used for IDoc processing. Message Type can be linked to the Process code.

### **PORT**

IDoc Port contains the information about the way data is sent between the source or target system. The type of port defines the information contained within the port. For port type "Internet" Port will contain IP address of the target system. For port type "file", directory or file name information is maintained. "tRFC" port contains information about the RFC destination of

the target system. For IDoc transmission using ALE “tRFC” ports are used.

## PARTNER PROFILE MAINTENANCE

### **PARTNER PROFILE (WE20)**

Partner profile must be maintained for all the business partners to whom we want to send or receive the IDocs. The TCODE for maintaining the partner profile is WE20.

#### Partner profiles

| Partner           | Description                   |
|-------------------|-------------------------------|
| Partner Profiles  |                               |
| ▷ Partner Type B  | Bank                          |
| ▷ Partner Type BP | Benefits provider             |
| ▷ Partner Type GP | Business Partner              |
| ▷ Partner Type KU | Customer                      |
| ▷ Partner Type LI | Vendor                        |
| ▷ Partner Type LS | Logical system                |
| ▷ Partner Type US | User (first 10 characters, no |

Double clicking on the Partner will show the following screen:

|             |          |                |
|-------------|----------|----------------|
| Partner No. | 0XXXXXXC | XYZ Technology |
| Partn.Type  | LI       | Vendor         |

Post processing: permitted agent

|       |          |                      |
|-------|----------|----------------------|
| Ty.   | S        | Position             |
| Agent | 500XXXXX | EDI Technical Errors |
| Lang. | EN       | English              |

Outbound parmtrs.

| Partner Ro... | Message Type | Message va... | MessageFu... | Test |
|---------------|--------------|---------------|--------------|------|
| VN            | ORDERS       |               |              |      |
| VN            | ORDCHG       |               |              |      |
|               |              |               |              |      |
|               |              |               |              |      |
|               |              |               |              |      |
|               |              |               |              |      |

Inbound parmtrs.

| Partner Ro... | Message Type | Message va... | MessageFu... | Test |
|---------------|--------------|---------------|--------------|------|
| VN            | DESADV       |               |              |      |
| VN            | INVOIC       |               |              |      |
|               |              |               |              |      |
|               |              |               |              |      |
|               |              |               |              |      |
|               |              |               |              |      |

Partner profile contains parameters for Inbound and Outbound processing of IDocs. For each message type we can maintain, inbound/outbound options, message control, post processing options and contact information within Inbound and outbound parameters.

### **OUTBOUND OPTIONS (OUTBOUND PARAMETERS)**

This involves sender/receiver port, Output mode and relation to IDoc type i.e. Basic Type and extension.

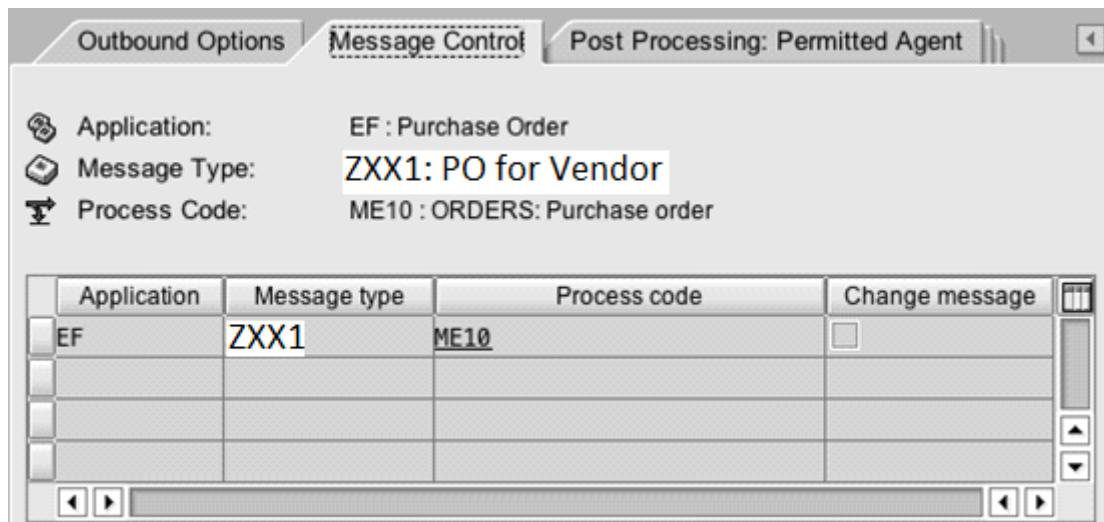
## Partner profiles: Outbound parameters

|                                                                                        |             |                               |
|----------------------------------------------------------------------------------------|-------------|-------------------------------|
| Partner No.                                                                            | 0XXXXXXC    | XYZ Technology                |
| Partn.Type                                                                             | LI          | Vendor                        |
| Partner Role                                                                           | VN          | Vendor                        |
| Message Type                                                                           | ORDERS      | Purchase order / order        |
| Message code                                                                           |             |                               |
| Message function                                                                       |             | <input type="checkbox"/> Test |
| <b>Outbound Options</b> <b>Message Control</b> <b>Post Processing: Permitted Agent</b> |             |                               |
| Receiver port                                                                          | A00000XX    | Transactional RFC             |
| Pack. Size                                                                             | 250         |                               |
| <input type="checkbox"/> Queue Processing                                              |             |                               |
| <b>Output Mode</b>                                                                     |             |                               |
| <input type="radio"/> Transfer IDoc Immed.                                             | Output Mode | 4                             |
| <input checked="" type="radio"/> Collect IDocs                                         |             |                               |
| <b>IDoc Type</b>                                                                       |             |                               |
| Basic type                                                                             | ORDERS01    | Purchasing/Sales              |
| Extension                                                                              | ZXXXXX      | IDoc for Outbound Purchase Or |
| View                                                                                   |             |                               |
| <input checked="" type="checkbox"/> Cancel Processing After Syntax Error               |             |                               |
| Seg. release in IDoc type                                                              |             | Segment Appl. Rel.            |

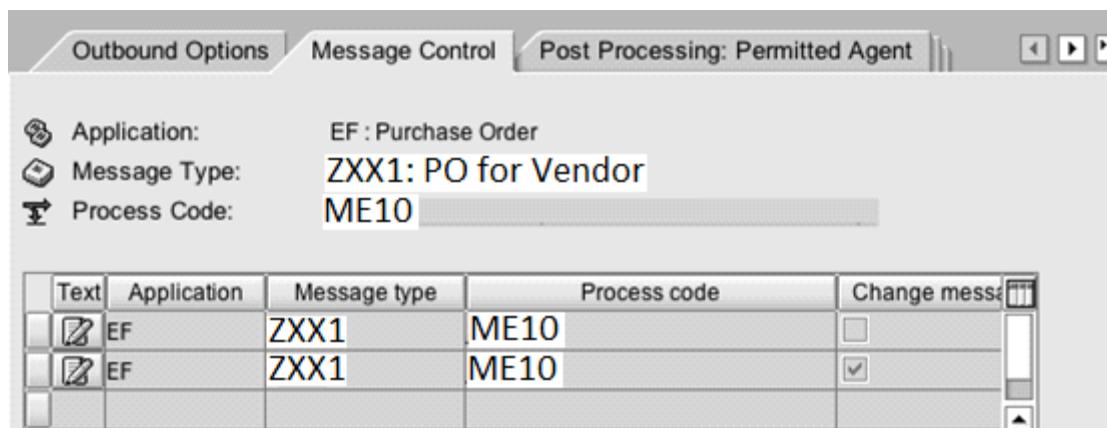
### **MESSAGE CONTROL (OUTBOUND PARAMETERS)**

This contains application for which IDoc will be created e.g. EF for Purchase order, the message type of the application that will trigger the IDoc and Process Code that will convert SAP document to an IDoc. For example, if PO is to be sent to the Vendor AXXXXZ, then in the outbound option of the partner AXXXXZ we need to maintain the message type ZXX1 and link it to the Process Code ME10. So when message type ZXX1 is triggered in the PO then an IDoc will be created for the partner vendor AXXXXZ.

Process Code is linked to the Function Module in SAP that converts application data into an IDoc. Standard function modules are provided by SAP for this conversion however these can also be customized as per business needs.



**Change Message Indicator** indicates whether the IDoc is sent as a notification of change. For example, Purchase Order change messages are sent to vendor using EDI standard message type 860.



Separate message type should be triggered in the purchase order for PO change. Additional line with change message type must be added in the Message control tab with **change message** indicator on.

## Display View "Process Codes, Outbound": Details



Process code

ME10

Description

ORDERS: Purchase order

Function module

IDOC OUTPUT ORDERS

### Option ALE-Service/inb. procg

- Processing with ALE service
- Processing w/o ALE service
- Processing w. trigger (inbound)

### Version of function module

- Processing with function module version 3.0
- Processing with function module version 2.2

## ***INBOUND OPTIONS (INBOUND PARAMETERS)***

For inbound options process code is maintained in the Inbound screen only. IDoc processing can be triggered by background program and triggered immediately.

|                                                                          |                                  |                                 |
|--------------------------------------------------------------------------|----------------------------------|---------------------------------|
| Inbound options                                                          | Post processing: permitted agent | Telephony                       |
| Process code                                                             | DESA                             | Delivery advice (DESADV with D) |
| <input checked="" type="checkbox"/> Cancel Processing After Syntax Error |                                  |                                 |
| Processing by Function Module                                            |                                  |                                 |
| <input checked="" type="radio"/> Trigger by background program           |                                  |                                 |
| <input type="radio"/> Trigger Immediately                                |                                  |                                 |

## ***POST PROCESSING (INBOUND/OUTBOUND PARAMETERS)***

In the post processing option we can maintain the workflow details of the users or positions to which an error notification will be sent if an IDoc processing fails.

|                                  |         |           |
|----------------------------------|---------|-----------|
| Post Processing: Permitted Agent |         |           |
| Ty.                              | S       | Position  |
| Agent                            | 5XXXXX1 | Test User |
| Lang.                            | EN      | English   |

### **TELEPHONY (INBOUND/OUTBOUND PARAMETERS)**

We can also maintain the contact details in the telephony option.

|                                  |                      |  |
|----------------------------------|----------------------|--|
| Post Processing: Permitted Agent |                      |  |
| Telephony                        |                      |  |
| Telephone No.                    | <input type="text"/> |  |
| Country Key                      | <input type="text"/> |  |
| Name                             | <input type="text"/> |  |
| Company                          | <input type="text"/> |  |

### **EDI STANDARD (OUTBOUND PARAMETERS)**

EDI standard screen contains the details of the Standard EDI terminology used for the IDoc transmission.

|                                  |                                     |  |
|----------------------------------|-------------------------------------|--|
| Post Processing: Permitted Agent |                                     |  |
| Telephony                        |                                     |  |
| EDI Standard                     |                                     |  |
| EDI Standard                     | <input checked="" type="checkbox"/> |  |
| Message type                     | 850                                 |  |
| Version                          | 004010                              |  |

For example, Message Type **850** is an EDI standard for Purchase Order IDoc and is linked to IDoc Message Type **Orders**.

## **IDOC STRUCTURE AND RECORDS**

### **STRUCTURE**

IDoc structure is divided into Control Record, Data Records and Status records.

| IDoc display |                                                |
|--------------|------------------------------------------------|
| ▽            | IDoc 000000XXXXXXXX1                           |
| ▶            | Control Rec.                                   |
| ▶            | Data records              Total number: 000051 |
| ▶            | Status records                                 |

These records are stored in the transparent tables in SAP. These are EDIDC, EDID4 and EDIDS.

### ***CONTROL RECORD (EDIDC)***

It contains information such as IDoc number, direction, IDoc Status, Basic Type, Message Type, Partner (Sender/Receiver), date and time of creation/update, Interchange File or ISA number,etc.



## Display Control Record

### IDoc Display

IDoc number XXXXXXXXX1  
Direction 2 ← Inbound  
Status 53 COO Application document posted

Typinfo Partner Techn.info Adressinfo Details

#### IDoc type information

Basic type ORDERS04 Purchasing/Sales  
Extension ZXXXXX1 Extension for Purchase Order  
IDoc Type

#### Logical message description

Message Type ORDERS Purchase order / order  
Message variant  
Message function AU  
 Test Flag

Typinfo Partner Techn.info Adressinfo Details

#### Recipient information

Port SAP TEST Test Inbound Port  
Partner Number RECEIVER  
Partn.Type LS Logical system  
Function

#### Sender information

Port SAPTEST2  
Partner number SENDER  
Partn.Type LS Logical system  
Partner Role

[Typinfo](#)[Partner](#)[Techn.info](#)[Adressinfo](#)[Details](#)**Info about IDoc**

SAP Release

702

Output Mode

Serialization

1XXXXXXXXX1

**Time of creation**

Date

19.08.2012

Time

00:22:31

**Last database update**

Date

19.08.2012

Time

04:44:40

[Typinfo](#)[Partner](#)[Techn.info](#)[Adressinfo](#)[Details](#)**References**

Interchange File

ABCDEFGH

Message Group

ABCDEFGH

Reference

0001

Identification

**EDI Options**

Standard

U

Version

00401

Message Type

***DATA RECORD (EDID4)***

It contains the details of the IDoc segments.

| IDoc display |                                                      |
|--------------|------------------------------------------------------|
| ▽            | IDoc 000000XXXXXXXX1                                 |
| □            | Control Rec.                                         |
| ▽            | □ Data records                  Total number: 000009 |
| □            | <u>E1EDK01</u> Segment 000001                        |
| □            | <u>E1EDK02 001</u> Segment 000002                    |
| □            | <u>E1EDK02 002</u> Segment 000003                    |
| ▽            | □ <u>E1EDP01</u> Segment 000004                      |
| □            | <u>E1EDP02 001</u> Segment 000005                    |
| □            | <u>E1EDP02 002</u> Segment 000006                    |
| □            | <u>E1EDP20</u> Segment 000007                        |
| □            | <u>E1EDP19 001</u> Segment 000008                    |
| □            | <u>E1EDP19 002</u> Segment 000009                    |
| ▷            | □ Status records                                     |

IDoc segment has fields that contain the data necessary for posting the documents.

| Data records |                    | Total number: 000009 | Current status                                                                                                                                                                                                                                                   |          |           |        |     |       |           |  |  |  |  |
|--------------|--------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------|--------|-----|-------|-----------|--|--|--|--|
| □            | <u>E1EDK01</u>     | Segment 000001       | Basic type<br>ORDERS01                                                                                                                                                                                                                                           |          |           |        |     |       |           |  |  |  |  |
| □            | <u>E1EDK02 001</u> | Segment 000002       | Extension                                                                                                                                                                                                                                                        |          |           |        |     |       |           |  |  |  |  |
| □            | <u>E1EDK02 002</u> | Segment 000003       | Message type<br>ORDRSP                                                                                                                                                                                                                                           |          |           |        |     |       |           |  |  |  |  |
| ▽            | □ <u>E1EDP01</u>   | Segment 000004       | Partner No.<br>SENDER                                                                                                                                                                                                                                            |          |           |        |     |       |           |  |  |  |  |
| □            | <u>E1EDP02 001</u> | Segment 000005       | Partn.Type<br>LI                                                                                                                                                                                                                                                 |          |           |        |     |       |           |  |  |  |  |
| □            | <u>E1EDP02 002</u> | Segment 000006       | Port<br>AXXXXXXX1                                                                                                                                                                                                                                                |          |           |        |     |       |           |  |  |  |  |
| □            | <u>E1EDP20</u>     | Segment 000007       |                                                                                                                                                                                                                                                                  |          |           |        |     |       |           |  |  |  |  |
| □            | <u>E1EDP19 001</u> | Segment 000008       |                                                                                                                                                                                                                                                                  |          |           |        |     |       |           |  |  |  |  |
| □            | <u>E1EDP19 002</u> | Segment 000009       |                                                                                                                                                                                                                                                                  |          |           |        |     |       |           |  |  |  |  |
| ▷            | □ Status records   |                      | Content of selected segment                                                                                                                                                                                                                                      |          |           |        |     |       |           |  |  |  |  |
|              |                    |                      | <table border="1"> <thead> <tr> <th>Fld name</th> <th>Fld cont.</th> </tr> </thead> <tbody> <tr> <td>ACTION</td> <td>004</td> </tr> <tr> <td>BELNR</td> <td>0XXXXXXX1</td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> </tbody> </table> | Fld name | Fld cont. | ACTION | 004 | BELNR | 0XXXXXXX1 |  |  |  |  |
| Fld name     | Fld cont.          |                      |                                                                                                                                                                                                                                                                  |          |           |        |     |       |           |  |  |  |  |
| ACTION       | 004                |                      |                                                                                                                                                                                                                                                                  |          |           |        |     |       |           |  |  |  |  |
| BELNR        | 0XXXXXXX1          |                      |                                                                                                                                                                                                                                                                  |          |           |        |     |       |           |  |  |  |  |
|              |                    |                      |                                                                                                                                                                                                                                                                  |          |           |        |     |       |           |  |  |  |  |
|              |                    |                      |                                                                                                                                                                                                                                                                  |          |           |        |     |       |           |  |  |  |  |

|                    |           |                                    |
|--------------------|-----------|------------------------------------|
| IDoc number        | XXXXXXXX1 |                                    |
| Segment type       | E1EDK01   | IDoc: Document header general data |
| Number             | 1         |                                    |
| No. higher segment | 0         | Hierarchy level<br>1               |

| Field name | Field contents                    | Short Description                     |
|------------|-----------------------------------|---------------------------------------|
| ACTION     | 004 : Changes in header and items | Action code for the whole EDI message |
| BELNR      | 0XXXXXXXX1                        | IDOC document number                  |

**IDoc display**

- ✓ IDoc 000000XXXXXXXX1
  - Control Rec.
  - ▼ Data records
    - E1EDK01 Total number: 000009
    - E1EDK02\_001 Segment 000001
    - E1EDK02\_002 Segment 000002
    - E1EDK02\_003 Segment 000003
    - ▼ E1EDP01 Segment 000004
      - E1EDP02\_001 Segment 000005
      - E1EDP02\_002 Segment 000006
      - E1EDP20 Segment 000007
      - E1EDP19\_001 Segment 000008
      - E1EDP19\_002 Segment 000009
  - ▷ Status records

**Technical short info**

|                |           |       |
|----------------|-----------|-------|
| Direction      | 2         | Inbox |
| Current status | 53        | OOO   |
| Basic type     | ORDERS01  |       |
| Extension      |           |       |
| Message type   | ORDRSP    |       |
| Partner No.    | SENDER    |       |
| Partn.Type     | LI        |       |
| Port           | AXXXXXXX1 |       |

**Content of selected segment**

| Fl name | Fl cont. |
|---------|----------|
| POSEX   | 00010    |
| ACTION  | 002      |
| PSTYP   | 5        |
| KZABS   | X        |
| MENGE   | 2        |
| MENE    | PCE      |

## STATUS RECORDS (EDIDS)

IDoc Status defines the processing status of the IDoc. IDoc statuses are used to track the IDoc and its various processing states. Status Numbers represents IDoc status. Current status of the IDoc is present in Control record.

**IDoc display**

- ✓ IDoc 000000XXXXXXXX1
  - Control Rec.
  - ▷ Data records
  - ▼ Status records
    - ▷ 53 Total number: 000009
      - Application document posted
      - ▷ Purchasing document 0XXXXXXXX1 successfully processed
    - ▷ 62
      - IDoc passed to application
      - ▷ Direct call started
    - ▷ 64
      - IDoc ready to be transferred to application
      - ▷ No filters , No conversion , No version change .
    - ▷ 50
      - IDoc added

Initial Status numbers are 64 for inbound and 03 for outbound. Successful status is 53 for inbound and 16 for outbound IDocs.

## SENDING AND RECEIVING IDOCS

### TRIGGERING AN OUTBOUND IDOC

Outbound IDocs can be triggered from the output message types of Purchase Orders, deliveries, Material Documents, invoices, etc. The following figure shows that once the output ZXX1 of PO XXXXXXXX1 is processed an IDoc "000000XXXXXXXXX1" is added/created.

The screenshot shows the SAP Output Processing analysis interface. At the top, there are tabs: 'Communication method', 'Processing log', and 'Further data'. Below the tabs, it says 'Pur. Order..... XXXXXXXX1' and 'Output'. A table displays the following data:

| Stat... | Output Type | Description   | Medium | Function | Partner | La... |
|---------|-------------|---------------|--------|----------|---------|-------|
| OOO     | ZXX1        | PO FOR VENDOR | 6 EDI  | MN       | VENDOR  | EN    |

Below the table, it says 'Output Processing analysis for proc. Purchase Order'. A table titled 'Type' and 'Message text' lists the following items:

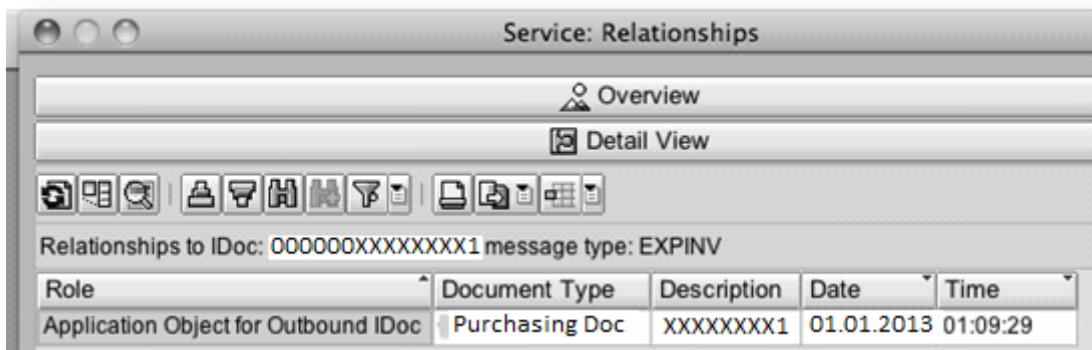
| Type                     | Message text                                               |
|--------------------------|------------------------------------------------------------|
| <input type="checkbox"/> | Object OXXXXXXX1                                           |
| <input type="checkbox"/> | Output type: PO FOR VENDOR                                 |
| <input type="checkbox"/> | Processing log for program RSNASTED routine EDI_PROCESSING |
| <input type="checkbox"/> | IDoc '000000XXXXXXXXX1' added                              |

The relationship between the IDoc and the application document can be found in two ways:

1. Relationship tab of IDoc

The screenshot shows the SAP IDoc Display interface. The title bar says 'IDoc Display: 000000XXXXXXXXX1'. The left sidebar has a context menu with options: 'Create...', 'Attachment list', 'Private note', 'Send', 'Relationships', 'Workflow', 'My Objects', and 'Help for object services'. The main area shows a summary: 'Total number: 000088'. Below this, it says 'Service: Relationships' and 'Overview'. A toolbar at the bottom has icons for search, insert, delete, and other functions. A table at the bottom lists relationships:

| Role                                 | Document Type  | Description | Date       | Time     |
|--------------------------------------|----------------|-------------|------------|----------|
| Application Object for Outbound IDoc | Purchasing Doc | XXXXXXXXX1  | 01.01.2013 | 01:09:29 |



2. Relationship tab of Application Document, e.g. PO, SO, Material Document, etc.



The initial status of this IDoc will be 30, which after successful processing will convert into status 16.

|                     |                                          |
|---------------------|------------------------------------------|
| IDoc 000000XXXXXXX1 |                                          |
|                     | Control Rec.                             |
|                     | Data records Total number: 000029        |
|                     | Status records                           |
|                     | 16 Functional Acknowledgement positive   |
|                     | 12 Dispatch OK                           |
|                     | 06 Translation OK                        |
|                     | 18 Triggering EDI subsystem OK           |
|                     | 03 Data passed to port OK                |
|                     | 30 IDoc ready for dispatch (ALE service) |
|                     | 01 IDoc generated                        |

A successful outbound IDoc will pass through all the above statuses in reverse order (01-03-18-06-12-16). Each status represents an IDoc validation step. If an IDoc passes all the validations it would reach status 16. These different validation steps for outbound IDocs are explained below:

01: IDoc generation successful

30: IDoc is ready to be processed by IDoc Processing job

03: IDoc data is passed to the Port

18: IDoc successfully triggered EDI subsystem

06: IDoc data translated to EDI format

12: IDoc is dispatched successfully to the partner

16: Partner has received the IDoc successfully

IDoc can possibly fail at any of the above steps during validation.

### **RECEIVING AN INBOUND IDOC**

The initial status of an inbound IDoc is 64 and successful status is 53.

Different validation steps for inbound IDocs are explained below:

50: IDoc received successfully in the system

64: IDoc is ready to be processed by IDoc processing job

53: Application document created and saved successfully. The document number can be found by expanding the status node 53

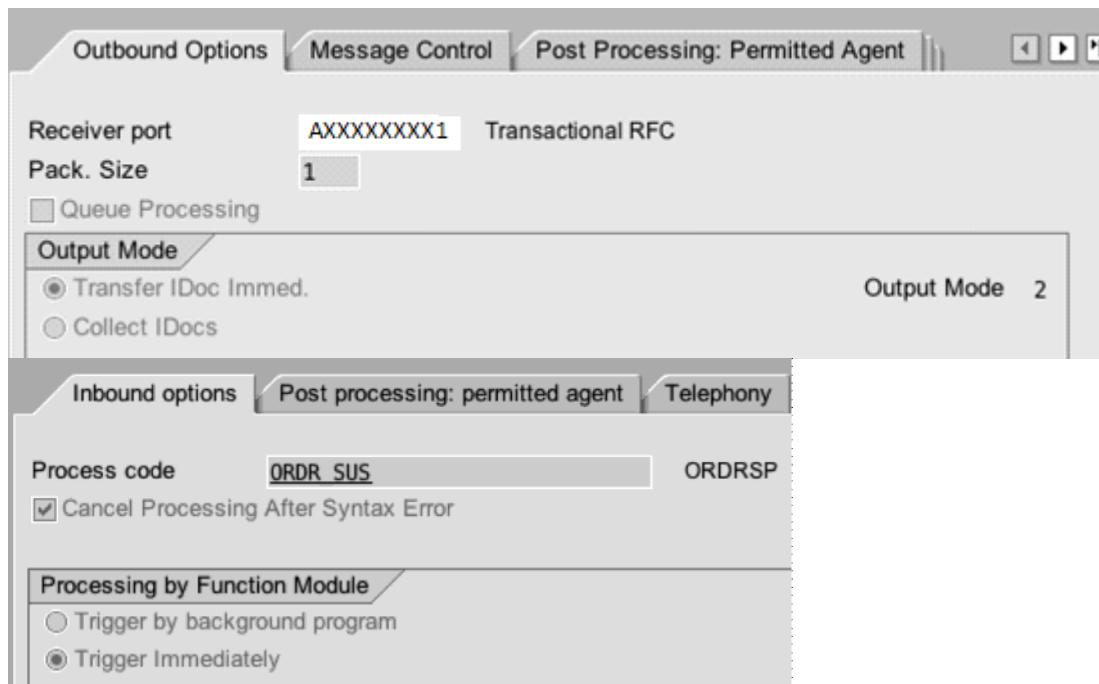
| IDoc display |                                                                                     |
|--------------|-------------------------------------------------------------------------------------|
| ▽            | 📁 IDoc 000000XXXXXXXXX1                                                             |
|              | 📄 Control Rec.                                                                      |
|              | ▶ 📁 Data records                          Total number: 000009                      |
|              | ▽ 📁 Status records                                                                  |
|              | ▶ 📄 53                                  Application document posted                 |
|              | ▶ 📄 62                                  IDoc passed to application                  |
|              | ▶ 📄 64                                  IDoc ready to be transferred to application |
|              | 📄 50                                  IDoc added                                    |
|              | ▽ 📁 Status records                                                                  |
|              | ▽ 📄 53                                                                              |
|              | 📄 0001 inbound delivery/deliveries created (nos. 01XXXXXXXXX1 to 01XXXXXXXXX2)      |

An inbound IDoc goes through all the above statuses in reverse order (50-64-53).

## **IDOC PROCESSING**

### **AUTOMATIC/IMMEDIATE PROCESSING**

In this case, IDoc are processed immediately as they generated or added in the system. The check "Transfer IDoc immediately" is selected in Outbound Options and "Trigger Immediately" is selected in Inbound Option. These checks are generally used when the real time information exchange is necessary between two systems.



## **MANUAL PROCESSING**

IDocs can also be manually processed using the TCODE BD87 in SAP.

## **PROCESSING VIA BACKGROUND JOB**

IDoc processing by background is the most preferred way of processing the IDocs. Following Programs are used from processing the IDocs using background job:

RBDAPP01 – Inbound IDocs

RSEOUT00 – Outbound IDocs

## **REPROCESSING IDOCS**

On the basis of IDoc statuses different programs can be used for reprocessing of failed IDocs. These are given below:

| INBOUND/OUTBOUND | STATUS                 | PROGRAM FOR REPROCESSING |
|------------------|------------------------|--------------------------|
| INBOUND          | 51, 63,                | RBDMANI2                 |
|                  | 60                     | RBDSYNER                 |
|                  | 69                     | RBDAGAIE                 |
| OUTBOUND         | 02, 04, 05, 25, and 29 | RBDAGAIN                 |
|                  | 26                     | RBDSYNER                 |
|                  | 32                     | RBDAGAIE                 |

## SEARCHING IDOCS IN SAP

### ***TCODE WE02/WE05: GENERAL SEARCH***

IDocs can be displayed in system via TCODE WE02 and WE05. If IDoc number is not known then search can be made on the basis of IDoc Date, Direction, BASIC TYPE, MESSAGE TYPE, and PARTNER NUMBER. Partner number can be found in the Output Messages of the documents.

| Default          |            | Additional |            | EDI                              |                                  |
|------------------|------------|------------|------------|----------------------------------|----------------------------------|
| Created At       | 00:00:00   | to         | 23:59:59   | <input type="button" value="→"/> | <input type="button" value="←"/> |
| Created On       | 25.08.2012 | to         | 25.08.2012 | <input type="button" value="→"/> | <input type="button" value="←"/> |
| Last Changed at  | 00:00:00   | to         | 23:59:59   | <input type="button" value="→"/> | <input type="button" value="←"/> |
| Last Changed on  |            | to         |            | <input type="button" value="→"/> | <input type="button" value="←"/> |
| Direction        | 2          |            |            |                                  |                                  |
| IDoc Number      |            | to         |            | <input type="button" value="→"/> | <input type="button" value="←"/> |
| Current Status   |            | to         |            | <input type="button" value="→"/> | <input type="button" value="←"/> |
| Basic Type       | ORDERS04   | to         |            | <input type="button" value="→"/> | <input type="button" value="←"/> |
| Enhancement      |            | to         |            | <input type="button" value="→"/> | <input type="button" value="←"/> |
| Logical Message  | ORDRSP     | to         |            | <input type="button" value="→"/> | <input type="button" value="←"/> |
| Message Variant  |            | to         |            | <input type="button" value="→"/> | <input type="button" value="←"/> |
| Message Function |            | to         |            | <input type="button" value="→"/> | <input type="button" value="←"/> |
| Partner Port     |            | to         |            | <input type="button" value="→"/> | <input type="button" value="←"/> |
| Partner Number   |            | to         |            | <input type="button" value="→"/> | <input type="button" value="←"/> |
| Partner Type     |            | to         |            | <input type="button" value="→"/> | <input type="button" value="←"/> |
| Partner Role     |            | to         |            | <input type="button" value="→"/> | <input type="button" value="←"/> |

| Communication method    |               | Processing log |        | Further data |         |
|-------------------------|---------------|----------------|--------|--------------|---------|
| Pur. Order..... XXXXXX1 |               |                |        |              |         |
| Output                  |               |                |        |              |         |
| Stat...                 | Output Type   | Description    | Medium | Function     | Partner |
| ZXX1                    | PO FOR VENDOR | 6 EDI          | VN     | VENDOR       | EN      |

IDoc search can also be made on the basis of ISA or Transfer file Reference.

| Default                    |  | Additional |  | EDI                              |                                  |
|----------------------------|--|------------|--|----------------------------------|----------------------------------|
| Transfer File Reference    |  | to         |  | <input type="button" value="→"/> | <input type="button" value="←"/> |
| Reference to Message Group |  | to         |  | <input type="button" value="→"/> | <input type="button" value="←"/> |
| Message Reference          |  | to         |  | <input type="button" value="→"/> | <input type="button" value="←"/> |
| EDI Archive Key            |  | to         |  | <input type="button" value="→"/> | <input type="button" value="←"/> |
| EDI Standard               |  | to         |  | <input type="button" value="→"/> | <input type="button" value="←"/> |
| EDI Version                |  | to         |  | <input type="button" value="→"/> | <input type="button" value="←"/> |
| EDI Message Type           |  | to         |  | <input type="button" value="→"/> | <input type="button" value="←"/> |

### **TCODE WE09: SEARCHING DATA IN IDOC SEGMENTS**

If we are looking for specific information within the IDocs Segments then this can be found using TCODE WE09. This is useful if you are searching for a particular information in similar kind of IDoc within IDoc segments. For

example, if you want to search a particular Purchase Order number e.g. 100000001 in multiple IDocs which lies in Segment E1EDK01 of an IDoc under field BELNR. Then the search can be executed in the following manner.

**Fast Search Mode**

Max. One Segment per IDoc

**Criteria for Search in Data Records**

|                         |           |
|-------------------------|-----------|
| Search in Segment ...   | E1EDK01   |
| Search in Field ...     | BELNR     |
| for Value ...           | 100000001 |
| and Search in Field ... |           |
| for Value ...           |           |

## IDOC VALIDATIONS, COMMON IDOC ERRORS AND SOLUTION

| ISSUE                                                                                                                                                                                       | IN/OUT | POSSIBLE SOLUTION                                                                                                                                                                                                                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Document Locking:</b><br>IDoc can fail sometime because of the locking issue e.g. PO can be opened in change mode which IDoc Processing job is trying to update confirmation for the PO. | IN     | Check T-code SM12 for locks and try to reprocess the IDoc once the locks are removed                                                                                                                                                             |
| <b>Parallel processing</b><br>If multiple programs are trying to process one IDoc then the processing program can fail due to locking issue.                                                | IN/OUT | Try to find all the programs that are processing the IDocs. Exclude the IDoc from one of the programs. Ensure that this IDoc is processed after exclusion.                                                                                       |
| <b>Duplicate IDocs</b><br>IDoc can also fail if it is a duplicate IDoc                                                                                                                      | IN/OUT | Check whether the data IDoc is trying to post is already posted. Communicate the same to concerned partners or the user                                                                                                                          |
| <b>Mandatory Segments missing</b><br>If mandatory segments are missing the IDoc will fail with syntax errors.                                                                               | IN/OUT | Check with EDI team the reason for syntax error. For outbound IDoc, if segment is missing then try to maintain the necessary data in the application by comparing good example IDocs. For inbound IDoc, ask the partner to send the correct data |
| <b>Special or invalid Characters</b><br>Special/Invalid character in the IDocs will not allow the IDoc to get posted                                                                        | IN/OUT | Try to remove the special characters/or ask the partner to resend the IDoc without special characters.                                                                                                                                           |
| Other issues                                                                                                                                                                                | IN/OUT | Many a times the IDoc error message may not give you the correct reason for its failure. In such case, try to replicate the scenarios in the test system and try to find the root cause by debugging the related function module.                |

Though, the IDoc failure may not be related to any of the above mentioned reasons, the best way to find the IDoc error is to compare the existing IDoc with the good example. Good example IDoc can be easily searched with any of the IDoc search methods as described above.

## DOCUMENTATION FOR IDOC TYPES

IDoc documentation can be found using TCODE WE60 and can be helpful to obtain information of the IDoc Type or its particular segment. It also provides information such as mandatory and optional segments, minimum and maximum number of segments, etc.

Documentation for Basic type WMMBID02

The screenshot shows a SAP Help documentation page for the basic type WMMBID02. The left sidebar contains navigation links and a search bar. The main content area has a title 'Structure of basic type WMMBID02' and a section 'Stock movements from ext. systems'. Below this, there are two bullet points: 'E1MBXYH : Goods movements for mobile data entry (header data)' and 'E1MBXYI : Add goods movement from external system: Item'. Each bullet point includes a status line ('Status: Required , min. number : 1 , max. number : 1') and a 'Structure' link.

**Basic type  
WMMBID02**

Stock movements from ext. systems

Released since Release 40A

- [IDoc type\(basic type\)](#)
- [Segment structures](#)

[Info...](#)

**Structure of basic type  
WMMBID02**

**Stock movements from ext. systems**

• **E1MBXYH : Goods movements for mobile data entry (header data)**  
Status: Required , min. number : 1 , max. number : 1

[Structure](#)

• **E1MBXYI : Add goods movement from external system: Item**  
Status: Required , min. number : 1 , max. number : 9999

[Structure](#)

• **E1MBXYJ : Create Goods Movement from Non-SAP System: Item++**  
Status: Optional , min. number : 1 , max. number : 1

## GENERAL INFORMATION FOR COMMON IDOC MESSAGE TYPES

The following list gives the Basic Type and Message Type combination for common idocs

| BUSINESS DOCUMENT              | BASIC TYPE | MESSAGE TYPE |
|--------------------------------|------------|--------------|
| SALES ORDER                    | ORDERS01   | ORDERS       |
|                                | ORDERS02   |              |
|                                | ORDERS03   |              |
| PURCHASE ORDER                 | ORDERS04   | ORDERS       |
|                                | ORDERS05   |              |
| DELIVERY SHIPPING NOTIFICATION | DELVRY01   | DESADV       |
|                                | DELVRY02   |              |
|                                | DELVRY03   |              |
| INVOICE                        | INVOIC01   | INVOIC       |

## ARCHIVING/DELETION OF IDOCS FROM DATABASE

As IDocs grow older they are archived and deleted from the database. Archived IDocs can be viewed using TCODE SARI in Achieve Explorer using archiving object as IDoc. Following are the few programs that are used for archiving and deletion of IDocs from database.

| <b>PROGRAM</b> | <b>PURPOSE</b>                                    |
|----------------|---------------------------------------------------|
| RSEXARCA       | Archive Idocs                                     |
| RSEXARCD       | Delete archived IDocs from the database           |
| RSEXARCR       | Read the IDocs from archive file                  |
| RSEXARCL       | Retrieve IDocs from the archive into the database |
| RSETESTD       | Delete IDocs from Database                        |

# 7 Steps For ALE Configuration - ABAP Development - Support

## Wiki

Thursday, February 23, 2023 4:40 PM

Clipped from: <https://wiki.scn.sap.com/wiki/display/ABAP/7+Steps+For+ALE+Configuration>

SAP Support Wiki Spaces  Search Log in

ABAP Development Pages / ... / ALE, IDOC

PAGE TREE

Show all pages

- [Idoc Workbench Program](#)
- [Implementing Tabstrips through selection screen](#)
- [IMPORT\\_DECOMPRESS\\_FAILED Dump With Note 125032](#)
- [Important Function Modules In SAP](#)
- [Important Parameter names and description](#)
- [Important Transaction Codes used in CTS](#)
- [Inbound Idoc Creation Program](#)
- [Inbound Idoc Interface in CU62](#)
- [Incorrect character output](#)
- [Increasing Spool Number Range](#)
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- [Learn making First Smartform Step by Step](#)
- [Learn Making First Table Control](#)
- [Level 2 trace for trace files](#)
- [Link for Kernel patch dispwk updates and more](#)
- [Linux Service packs](#)
- [Linux SLES 11 SP4](#)
- [Linux UUID check Error 20011](#)
- [List all Methods,Attributes,Events of a Class](#)
- [List of Active Component in the system](#)
- [List of RAPI's](#)

## 7 Steps For ALE Configuration

Created by Abhijit Zope, last modified by Anonymous on Nov 01, 2011

### ALE configuration normally involves the seven basic steps which are :

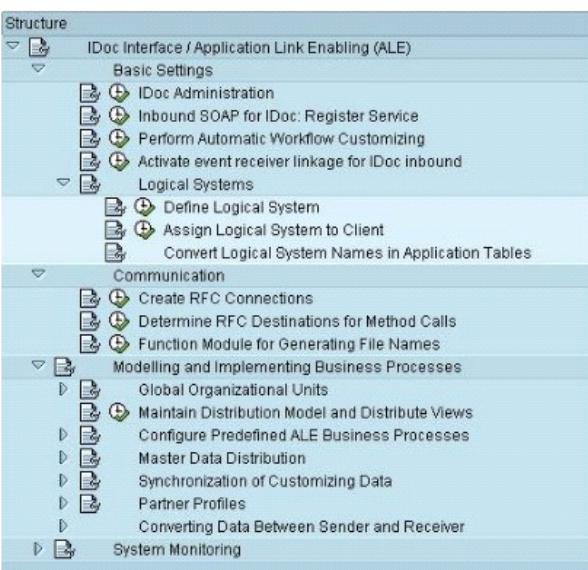
1. Creating users for ALE Transfer
2. Creating Logical system and assign the client
3. Creating the RFC
4. Configuring Distribution Model
5. Configuring and checking the port
6. Configuring and checking the partner profile
7. Creating the message type

### The steps to configure and use it is mentioned below :

**Notes: 105 is Sender and 800 Receiver System For Example**

**1. Create Users for ALE transfer in both receiving and sending client/systems.**

Create users in both the client/systems giving the same user name and proper authorizations. We need to use these user ids to logon through the remote connection and perform the IDOC transfers.



**2. Creating Logical Systems**

- o Create logical systems for both sending and receiving systems in both systems.
- o Login to Client 105 (SENDER)

- List all Methods,Attributes,Events of a Class
- List of Active Component in the system
- List of BAPI's
- List of Commonly Used Function Modules
- List of Customized Sapscripts
- List of programs not assigned to any TCode
- List of system exceptions as of 46C
- List of Transaction codes
  - List processing
  - Local output.
  - Locating SD User Exit routines
  - Lock and unlock delivery document
- Lock and Unlock User IDs
- LOG\_HANDLE record in BALDAT and BALHDR tables.
- Logical Database – Simple Selection Screen
- Logical Database with Report HR Report Category Selection Screen
- Logo Display
- Logo Display By ALV OOPS
- LSMW Steps in Detail
- Maintaining Change Log for Database Tables
- Make First SAP Script step by step
- Making ALV to react to Change data automatically
- Manufacturing Development
- Manufacturing Variance Report
- Mark check box using CALL FUNCTION 'GET\_GLOBALS\_FROM\_SLVC\_FULLSC'
- Material Master Upload Program
- Materials Handling Program
- Material Wastage Report Logic
  - MEMORY\_NO\_MORE\_PAGING
  - MEMORY\_NO\_MORE\_PAGING Dump on HR System
  - MEMORY\_PGFREE\_FAILED
  - Memory Dump in RSPO\_L\_RETURN\_RAW\_DATA
- Message no. AM202 Postal code must have length
- METHOD IF\_EX\_ME\_PROCESS\_PO\_CUST~CLOSE.
- Microsoft Selects SAP SuccessFactors HCM Suite
- Missing Days Extract
- Missing ST03 Data after DST Timezone Change
- Missng:TS1TE entries in Syslog after installing the 720 Kernel
- MM Create RFQ program
- MM Material Master Program
- Monitor memory usage
- month in words date in number
- My first SAP Script step by step
- Need driver program for FI module such as Customer invoice or Vendor inv

- o Create logical systems for both sending and receiving systems in both systems.
- o Login to Client 105 (SENDER)
- o Go to T. Code **SALE**
- o Expand Sending and Receiving Systems
- o Expand Logical Systems
- o Click on Define Logical System
- o Click on New Entries
- o Create Logical Systems with naming convention 'system name'+'CLNT'+client no . For example for sending system ex: SSPCLNT105
- o Create Logical Systems with naming convention 'system name'+'CLNT'+client no ex: example for receiving system ex SEDCLNT800
- o Save and come back
- o Click on Assign client 105 to Logical system SSPCLNT105
- o Now, logon to client 800, repeat the same above process to create logical systems SEDCLNT800 and SSPCLNT105
- o Save and come back
- o Click on Assign client 800 to Logical system SEDCLNT800

### **3. Creating the RFCs**

- o In client 105, Go to T. Code SM59
- o Expand R/3 Connections
- o Enter RFC Name as SSPCLNT105 (give this name same as that of logical name created in step1 so that the ports are automatically created)
- o Connection Type as 3
- o Language as EN
- || Give the logon details for client 800 (usually, we create a new user with proper authorizations for this ALE data transfer)
- o Click on Remote logon button to test the RFC
- o Now, go to client 800 and repeat the same process to create the RFC connection to client 105, giving logon credentials to client 105

### **4. Creating Customer Distribution Model**

(we usually create this in the original system(sending system) and then distribute it to other systems. The actual creation of the model requests that you mention a technical name for the model (unique identifier in the systems landscape), a sender system, a receiver system and message types to exchange between those systems.)

- o In Client 105, Go to T. Code **BD64**
- o Click on change and Create model view button
- o Enter the short text and Technical name as ZSSP\_SED
- o Select the model and click on **Add Message Type** Button,
- o Give the Sender as SSPCLNT105, Receiver as SEDCLNT800,
- o Give Message type as required, Ex: 'HRMD\_A' for HR Module.(usually Message types given by SAP are available for a particular module, see this using tcode WE81, if not create a message type first)
- o **Note:** If we are performing this data transfer task for all modules at a Customer site, then we will need to use the appropriate message type and create a new Distribution model.
- o Select the above model view and click on Environment -> Generate Partner Profiles
- o Select Transfer IDOC Immediately and Trigger Immediately radio buttonsF
- o Click on Execute
- o You should get a list in green color which means it executed successfully.
- o Back to main screen. select the model view

- My first SAP Script step by step
- Need driver program for FI module such as Customer invoice or Vendor inv
- Need Function Module to update the LINV table
- Netweaver Overview presenter
- New ABAP Debugger
- New ABAP Editor
  - NEW FM in Place of Obsolete FM
  - NIPING
  - No History Data in OS07N or ST06
  - notes on work process
  - No traffic lights in "multiple select" option
  - Number of days in a year
- Number Range (BC-SRV-NUM)
- NWBC Sidepanel - HowTo
- OBJECT ORIENTED ALV Guide
- OBSOLETE Move a file from source to target directories or Delete file
- Obsolete system fields
- Old Instance Names in ST06N or OS07N
- OMS
- Online Text Repository (OTR)
- ON VALUE-REQUEST event
- OO ALV total column Aggregation
- Opening MS-Word doc on selection-screen from presentation server
- Open PO details
- Operating system call connect failed (error no. 150 )
- Operating system call recv failed (error no. 73 )
- OS limits on Unix
- Other Topics

Show all pages

- Add Activity reason to Search and Search result
- ADDING CHECKBOX TO DYNAMIC INTERNAL TABLE USING RTTS
- Adding subtotals at the end of an ALV List
- Addition of Tab at Item Level Vf01 (SD Invoice) .

- Click on Execute
- You should get a list in green color which means it executed successfully.
- Back to main screen, select the model view
- Click Edit->Model view->Distribute
- Click on continue
- You should get a list saying model view is distributed successfully.

#### 5. Checking the Port

- In client 105, Go to T. Code **WE21**
- Expand Transactional RFC
- Find the port from the list which is created using BD64 for SEDCLNT800 (Receiving system) RFC Destination.

#### 6. Checking the Partner Profiles.

- In client 105, Go to T. Code **WE20**
- Expand Partner Type LS
- Select the Partner profile SEDCLNT800
- Double click on Message Type (For Ex: In HR Module, HRMD\_A in Outbound parameters.)
- Check Receiver Port is assigned correctly
- Check the Basic type as your Basic IDOC object.
- In the sending system, select the option to transfer IDOCs immediately.
- By default, in the receiving system IDOCS are bunched together and received.

#### 7. Creating the Message Type

- Message type defines the 'meaning' of data. It is just a logical entity that gets connected to the Idoc type (in tcode we82) or gets connected to the distribution model (in tcode BD64)
- If necessary create a new message type. In client 105, go to tcode we81.
- Click on change, continue
- Click on New Entries button
- Give message type in customer namespace Z\* and description
- Save and back

**Other Link which can be used for ALE Scenario Development Guide is below:**

ALE Development Guide

ale idoc

# Step by step configuration of ALE for Material Master from one client to another. | SAP Blogs

Thursday, February 23, 2023 4:41 PM

Clipped from: <https://blogs.sap.com/2012/11/21/step-by-step-configuration-of-ale-for-material-master-from-one-client-to-another/>

## ALE configuration for MATMAS

### On both sides(say Client 800 and Client 810):

1. 1. Go to 'SALE'

'SENDING AND RECEIVING SYSTEMS'

'LOGICAL SYSTEMS'

'DEFINE LOGICAL SYSTEM'(say MKCLNT800 and MKCLNT810)

'ASSIGN CLIENT TO LOGICAL SYSTEM'

1. 2. Setup RFC DESTINATIONS SM59

1. 3. Port Destination WE21

Create a tRFC port and assign the RFC DESTINATION which you created in Step 2.

### In Source system:

Create a table and enter some records

Segment creation WE31

Basic IDOC Type Creation WE30

Message Type Creation WE81

Assign Message Type to Basic IDOC Type WE82

Distribution Model BD64

Writing Report Program SE38

Partner Profile WE20

### In Destination System:

Creating FM SE37

Assign FM to Logical Message WE57

Define I/P method for Inbound FM BD51

Create Process Code WE42

Generate Partner Profile BD64

Execute the program from SE38

Check IDOCs WE02, WE05

**If you have any error in status:**

Debug an idoc using BD87

I have recorded each and every step and uploaded the video on Youtube.

<https://www.youtube.com/watch?v=OfAjep4A0tE>

<personal contact information removed by moderator>

# How to set up idoc change pointers - video

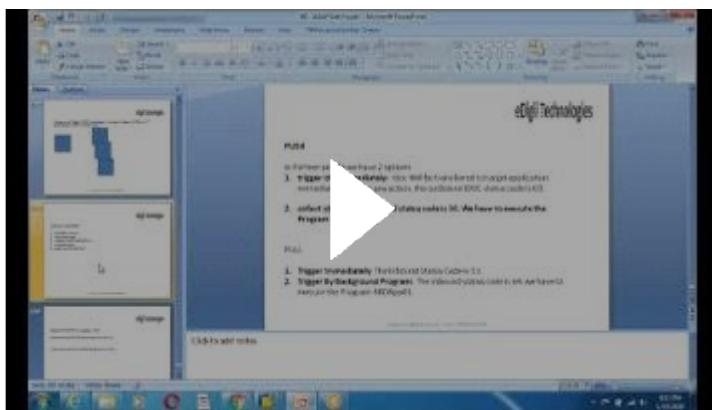
Friday, February 24, 2023 4:51 PM



Set up IDOC  
Change P...

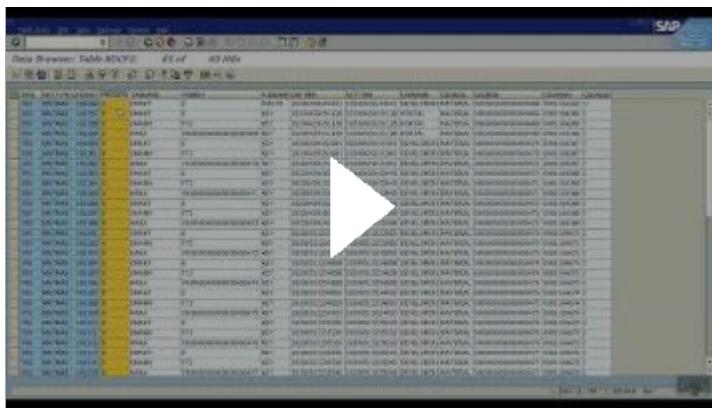
## [4. SAP ABAP ALE & IDOC Change Pointers IDOCS](#)

eDigii Technologies



## [SAP Configure change pointer in idoc](#)

Mygrow soft



# SPROXY

Wednesday, April 29, 2020 11:08 AM

ExK- zplm\_co\_si\_oa\_dmrcreation

How to generate a proxy in ABAP?

**Display Service Consumer SI\_OA\_DMRCreation**

MIME Repository Repository Browser Repository Information System Tag Browser Transport Organizer Test Repository Enterprise Services Browser Connectivity Browser

| Name                    | Additional Info                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ZUNITY_QTC              | Packages > ZUNITY_QT                                                                                                                                                                                                                                                                                                                                                                            |
| ZUNITY_PTP              | Packages > ZUNITY_PT                                                                                                                                                                                                                                                                                                                                                                            |
| Source                  | Enterprise Service Repo Modelled locally in the b                                                                                                                                                                                                                                                                                                                                               |
| Namespaces              | urn:etn-com:pi:PDHMaterialLongForm<br>urn:etn-com:pi:PDHMaterialShortForm<br>urn:etn-com:pi:CLC:ProdOrder:10<br>urn:etn-com:pi:CLC:ProdOrderChar:10<br>urn:etn-com:pi:DMM:ProductionOrder:1<br>urn:etn-com:pi:LaserEtching:ProdOrder<br>urn:etn-com:pi:PDH:MaterialResponse<br>urn:etn-com:pi:TDM:ProductionOrder<br>urn:etn-com:pi:WISPER:DMRClosure:10<br>urn:etn-com:pi:WISPER:DMRCreation:1 |
| Object Types            |                                                                                                                                                                                                                                                                                                                                                                                                 |
| Objects                 |                                                                                                                                                                                                                                                                                                                                                                                                 |
| ZUNITY_FICO             | Packages > ZUNITY_FIK                                                                                                                                                                                                                                                                                                                                                                           |
| ZEHS_ACDC_SERVICE_PROXY | Packages > ZEHS_ACDC                                                                                                                                                                                                                                                                                                                                                                            |
| Z_UNITY                 | Packages > Z_UNITY                                                                                                                                                                                                                                                                                                                                                                              |
| ZHR                     | Packages > ZHR                                                                                                                                                                                                                                                                                                                                                                                  |
| ZUNITY_RTC              | Packages > ZUNITY_RT                                                                                                                                                                                                                                                                                                                                                                            |
| Source                  |                                                                                                                                                                                                                                                                                                                                                                                                 |
| SWCs                    |                                                                                                                                                                                                                                                                                                                                                                                                 |
| Packages                |                                                                                                                                                                                                                                                                                                                                                                                                 |
| Namespaces              |                                                                                                                                                                                                                                                                                                                                                                                                 |
| Object Types            |                                                                                                                                                                                                                                                                                                                                                                                                 |
| Objects                 |                                                                                                                                                                                                                                                                                                                                                                                                 |

Service Consumer

SI\_OA\_DMRCreation Active

Properties External View Internal View Objects Configuration WSDL Classifications

Service Consumer

Name: SI\_OA\_DMRCreation  
Namespace: urn:etn-com:pi:WISPER:DMRCreation:10  
ABAP Object: CLAS Class (ZPLM\_CO\_SI\_OA\_DMRCREATION)  
ABAP Name: ZPLM\_CO\_SI\_OA\_DMRCREATION  
Prefix: ZPLM\_  
Source: Enterprise Services Repository  
Description: Proxy Class (generated)

General Data

Package: ZUNITY\_PTP Release Status: Not Released  
Original Language: EN English  
Created by: C9915000 on 06/04/2015 05:22:35  
Changed by: C9915000 on 06/04/2015 05:30:07

## Inbound IDOC from Bidman example by Andy

Wednesday, July 31, 2019 4:37 PM

SPROXY Transaction

Display Service Consumer SI\_OA\_OrderAckStatus\_Failure

The screenshot shows the SAP SPROXY Transaction interface. On the left, there is a navigation bar with various icons and links. The main area is titled "Display Service Consumer SI\_OA\_OrderAckStatus\_Failure". Below the title, there are tabs: Properties (selected), External View, Internal View, Objects, Configuration, WSDL, and Classifications. The "Properties" tab contains fields for the service consumer, including Name (SI\_OA\_OrderAckStatus\_Failure), Namespace (urn:etn-com:pi:Bidman:OrderAckStatus), ABAP Object (CLAS Class), ABAP Name (ZQTC\_CO\_SI\_OA\_ORDER\_ACK\_STATUS1), Prefix (ZQTC\_), Source (Enterprise Services Repository), and Description (Proxy Class (generated)). The "General Data" section shows the package (ZUNITY\_QTC), original language (EN English), creation date (08/29/2019 10:15:08), and last change date (08/29/2019 10:17:48). The "Additional Info" section shows the package path (Packages > ZUNITY\_QTC).

Proxy Edit Goto Utilities System Help

Display Service Consumer SI\_OA\_OrderAckStatus\_Failure

MIME Repository Repository Browser Repository Information System Tag Browser Transport Organizer Test Repository Enterprise Services Browser Connectivity Browser

Properties External View Internal View Objects Configuration WSDL Classifications

**Service Consumer**

|             |                                      |        |
|-------------|--------------------------------------|--------|
| Name        | SI_OA_OrderAckStatus_Failure         | Active |
| Namespace   | urn:etn-com:pi:Bidman:OrderAckStatus |        |
| ABAP Object | CLAS Class                           |        |
| ABAP Name   | ZQTC CO SI OA ORDER ACK STATUS1      |        |
| Prefix      | ZQTC_                                |        |
| Source      | Enterprise Services Repository       |        |
| Description | Proxy Class (generated)              |        |

**General Data**

|                   |            |                |                     |
|-------------------|------------|----------------|---------------------|
| Package           | ZUNITY_QTC | Release Status | Not Released        |
| Original Language | EN English |                |                     |
| Created by        | DE44C      | on             | 08/29/2019 10:15:08 |
| Changed by        | DE44C      | on             | 08/29/2019 10:17:48 |

**Service Consumer Objects**

- Name Additional Info
- http://eaton.com/pi/C360/QANotification
- http://eaton.com/pi/C360/ServiceRequest
- http://eaton.com/pi/CPQ/Quote
- http://eaton.com/pi/common/OrderAckSta
- http://ws.webdominator.cooperlighting.co
- urn:cooperindustries.com:ERP:QTC:IDEA\_Pi
- urn:cooperindustries.com:ERP:QTC:Mexico:
- urn:cooperindustries.com:QTC:ERP:Hotkey:
- urn:etn-com:pi:ATGProductExclusions
- urn:etn-com:pi:ATPCheckNetPriceShop
- urn:etn-com:pi:AuthReqIdCreditCard
- urn:etn-com:pi:Bidman:OrderAckStatus
  - Source
    - ESR (local)
      - SI\_OA\_OrderAckStatus\_Failure
  - Objects
    - um:etn-com:pi:InvoiceConfirmationeSHOP
    - um:etn-com:pi:InvoiceCreditCard
    - um:etn-com:pi:OracleECP:SoSyncResponse
    - um:etn-com:pi:OracleECP:SoUnlock:10
    - um:etn-com:pi:OrdCreateeShop
    - um:etn-com:pi:OrderAckeShop
    - um:etn-com:pi:OrderHistoryeShop
    - um:etn-com:pi:OrderSimulationeSHOP
- Source
- SWCs
- Packages
- Namespaces

Enterprise Service Repository  
urn:etn-com:pi:Bidman:OrderAckStatus

Packages > ZUNITY\_PTP  
Packages > ZUNITY\_FICO  
Packages > ZEHS\_ADCC\_SERVICE\_PROXY  
Packages > Z\_UNITY  
Packages > ZHR  
Packages > ZUNITY\_RTC

Transports listed : 2

| QU Request   | Owner | Transport Description                               | Transport  | RFC/CRQ | Functional      | QStatus      | QAS        | QAS Transp | QAS Transp | QClients        |
|--------------|-------|-----------------------------------------------------|------------|---------|-----------------|--------------|------------|------------|------------|-----------------|
| D47K9CBQL    | DE44C | QTC-AJW-49703 - CRP changes for BidMan Order create | 07/22/2019 | 331712  | Vankata Bobbala |              |            | 000000     |            |                 |
| X D47K9CBOL9 | DE44C | OT-QTC-AJW-49703 - BidMan Order Create Interface    | 07/16/2019 | 328908  | Vankata Bobbala | R31-R31-R31- | 07/16/2019 | 154023     |            | R31-100-R32-100 |

Display Request D47K9CBOL9

The screenshot shows the SAP Transport List and the Object Navigator. The transport D47K9CBOL9 is selected. The Object Navigator tree view shows the following structure under /DEV2TEST/ DEV2TEST Target Group/ Released/D47K9CBOL9/ DE44C/ Development/Correction/ Function Module/ ZQTC\_BIDMAN\_IDOC\_INPUT\_ORDERS. It also includes Report Source Code (LZQTC\_BIDMAN\_INTERFACEF01, LZQTC\_BIDMAN\_INTERFACEF02, LZQTC\_BIDMAN\_INTERFACETOP, LZQTC\_BIDMAN\_INTERFACEUXX, SAPLZQTC\_BIDMAN\_INTERFACE, ZXVEDU15), Report Texts, and Program. Another node D47K9CBPLI/ DE44C/ Development/Correction is also shown with Class (ABAP Objects) containing ZQTC\_CO\_SI\_OA\_ORDER\_ACK\_STATUS and Proxy Object containing CLASZQTC\_CO\_SI\_OA\_ORDER\_ACK\_STATUS and TABLZQTC\_DT\_ORDER\_ACME\_SHOP.

Inbound FM configured

Function module ZQTC\_BIDMAN\_IDOC\_INPUT\_ORDERS Active

Attributes Import Export Changing Tables Exceptions Source code

```

22 ****
23 * MODIFICATION LOG
24 ****
25 * Author : Andy Wasmer (DE44C)
26 * Date : April 30, 2019
27 * Ticket : Project 49703
28 * Transport : D47K9CBOL9
29 * Search On :
30 * Description: Initial development
31 ****
32 refresh:
33 gt_idocctrl,
34 gt_idocdata.
35
36 gt_idocctrl[] = idoc_ctrl[].
37 gt_idocdata[] = idoc_data[].
38
39 loop at idoc_ctrl into gs_idocctrl.
40
41 * Refresh all BAPI tables.
42 perform refresh_bapi_tables.
43
44 * Move IDOC data into BAPI tables.
45 perform interpret_idoc_order tables gt_idocdata
46 using gs_idocctrl.
47
48 * Post Quote and Update the IDOC status.
49 perform post_order tables idoc_status.
50
51 endloop.
52
53
54
55
56
57 ENDFUNCTION.

```

Configured in BD67

Table View Edit Goto Selection Utilities System Help

Change View "Function modules for inbound ALE-EDI": Overview

New Entries

Function modules for inbound ALE-EDI

| Inbound process code | Inbound Function Module        |
|----------------------|--------------------------------|
| ZORS_WMB             | L_IDOC_INPUT_WMMBX             |
| ZPFRU                | ZPTP_KANBAN_CONFIRM_IDOC_IN    |
| ZPTP_CONF            | ZPTPF_PORDER_CONFIRMATION      |
| ZPTP_PDH_IW          | ZPTP_IDOC_INPUT_PDH_IDW        |
| ZPTP_PDH_MATL        | ZPTP_IDOC_INPUT_PDH_CLAS       |
| ZQTC_BIDMAN          | Z_QTC_BIDMAN_IDOC_INPUT_QUOTES |
| ZQTC_BIDMAN_ORDER    | Z_QTC_BIDMAN_IDOC_INPUT_ORDERS |
| ZQTC_CPO_COND        | ZQTC_CPO_IDOC_INPUT_COND_A     |
| ZQTC_CPO_QUOTE       | ZQTC_CPO_IDOC_INPUT_QUOTES     |
| ZQTC_CSI_QUOTE       | ZQTC_CSI_IDOC_INPUT_QUOTES     |
| ZQTC_DELS            | IDOC_INPUT_DESADV1             |
| ZQTC_ESHOP_ORDE      | IDOC_INPUT_ORDERS              |
| ZQTC_PRCL            | ZQTC_IDOC_PRCL_SHPMNT          |
| ZQTC_SYND            | ZQTCF_IDW_PRICE_SYND           |
| ZQTC_SYND_MAT        | ZQTCF_IDW_MATERIAL_SYND        |
| ZREM                 | IDOC_INPUT_REMADV              |

Position... Entry 332 of 368

Double click will show that it is configured

Table View Edit Goto Selection Utilities System Help

Change View "Function modules for inbound ALE-EDI": Details

New Entries

Process code ZQTC\_BIDMAN\_ORDER

Module (inbound)

Function Module ZQTC\_BIDMAN\_IDOC\_INPUT\_ORDERS

Maximum Number of Repeats

IDoc packet

Object Type IDPKORDERS

End Event MASSINPUTFINISHED

IDoc

Object Type IDOCORDERS

Start Event INPUTTERROROCCURRED

End event INPUTFINISHED

Success Event

Application Object

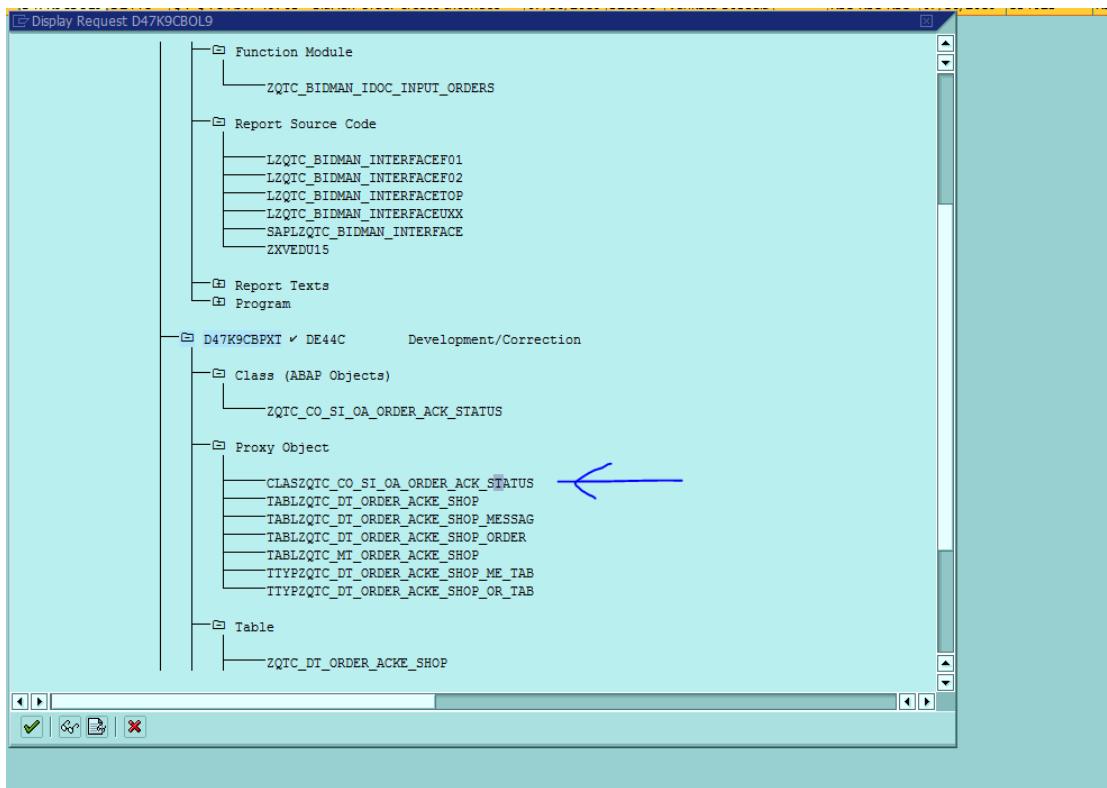
Object Type BUS2032

Start event

Failure acknowledgement

Service consumer:-

Service consumer transaction



Proxy Edit Goto Utilities System Help

Display Service Consumer SI\_OA\_OrderAckStatus\_Failure

SI\_OA\_OrderAckStatus\_Failure Active

Properties External View Internal View Objects Configuration WSDL Classifications

**Service Consumer**

|             |                                           |
|-------------|-------------------------------------------|
| Name        | SI_OA_OrderAckStatus_Failure              |
| Namespace   | http://eaton.com/pi/common/OrderAckStatus |
| ABAP Object | CLAS Class                                |
| ABAP Name   | ZQTC_CO_SI_OA_ORDER_ACK_STATUS            |
| Prefix      | ZQTC_                                     |
| Source      | Enterprise Services Repository            |
| Description | Proxy Class (generated)                   |

**General Data**

|                   |            |                |                     |
|-------------------|------------|----------------|---------------------|
| Package           | ZUNITY_QTC | Release Status | Not Released        |
| Original Language | EN English |                |                     |
| Created by        | DE44C      | on             | 06/21/2019 09:07:01 |
| Changed by        | DE44C      | on             | 06/21/2019 09:12:34 |

| Class Builder: Display Class ZQTC_CO_SI_OA_ORDER_ACK_STATUS         |                 |            |            |                 |
|---------------------------------------------------------------------|-----------------|------------|------------|-----------------|
| Local Definitions/Implementations                                   |                 |            |            |                 |
| Class/Interface ZQTC_CO_SI_OA_ORDER_ACK_STATUS Implemented / Active |                 |            |            |                 |
| Properties                                                          | Interfaces      | Friends    | Attributes | Methods         |
|                                                                     |                 |            |            |                 |
| Method                                                              | Level           | Visibility | M...       | Description     |
| IF_PROXY_BASIS_INTERVAL-CREATE_FRAME                                | Static Method   | Public     |            |                 |
| IF_PROXY_BASIS-GET_PROTOCOL                                         | Instance Method | Public     |            |                 |
| IF_PROXY_BASIS-GET_TRANSPORT_BINDI...                               | Instance Method | Public     |            |                 |
| IF_PROXY_CLIENT-EXECUTE                                             | Instance Method | Public     |            | Execute Methods |
| CONSTRUCTOR                                                         | Instance Method | Public     |            |                 |
| SI_IA_ORDER_ACK_STATUS_FAILURE                                      | Instance Method | Public     |            |                 |

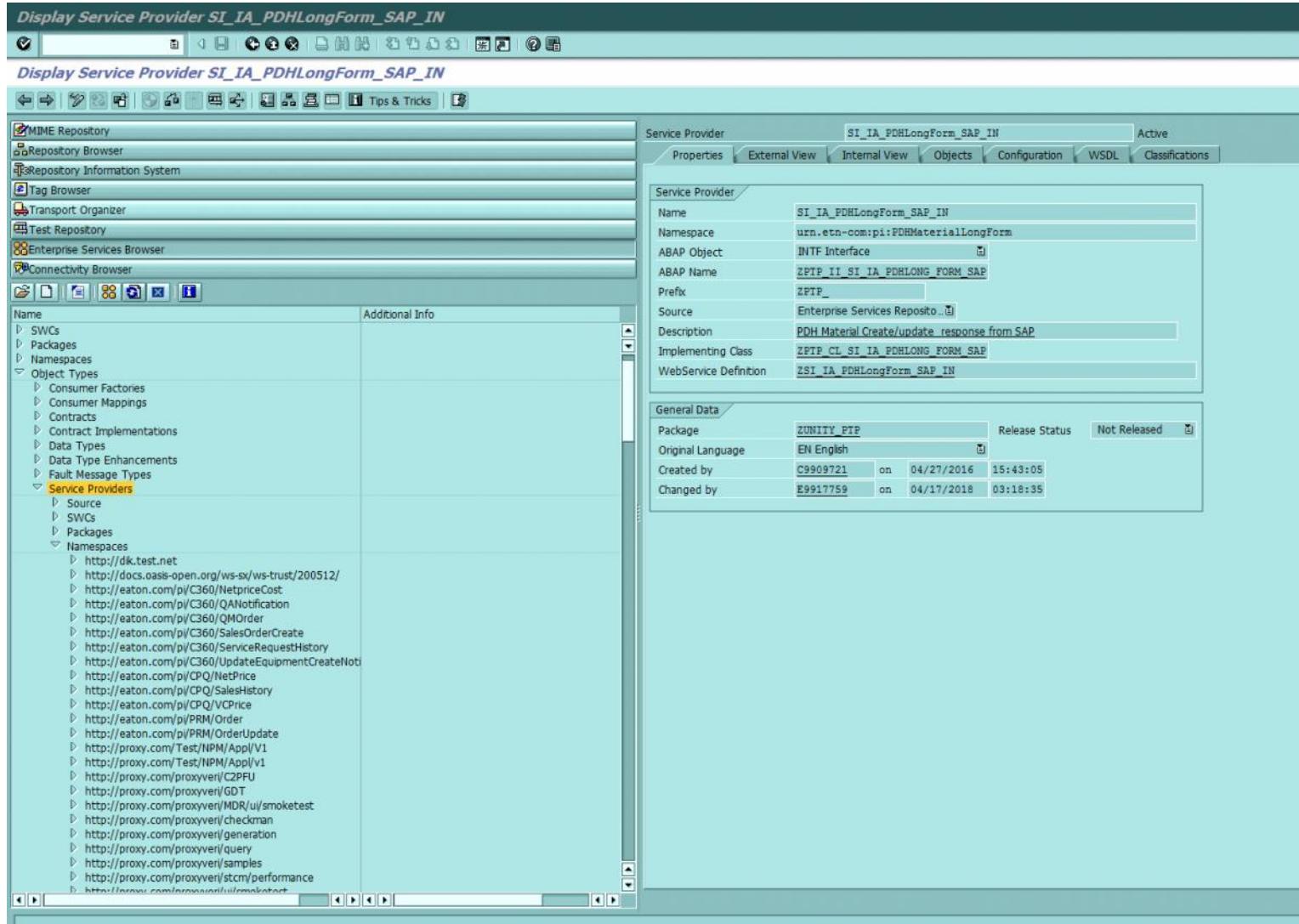
| Class Builder: Class ZQTC_CO_SI_OA_ORDER_ACK_STATUS Display             |                    |                              |                     |
|-------------------------------------------------------------------------|--------------------|------------------------------|---------------------|
| Pattern Pretty Printer   Signature   Public Section   Protected Section |                    |                              |                     |
| Ty.                                                                     | Parameter          | Type spec.                   | Description         |
|                                                                         | OUTPUT             | TYPE ZQTC_MT_ORDER_ACKE_SHOP |                     |
|                                                                         | CX_AI_SYSTEM_FAULT |                              | Communication Error |

| Method | SI_IA_ORDER_ACK_STATUS_FAILURE                     | Active |
|--------|----------------------------------------------------|--------|
| 1      | method SI_IA_ORDER_ACK_STATUS_FAILURE.             |        |
| 2      | data:                                              |        |
| 3      | ls_parmbind type abap_parmbind,                    |        |
| 4      | lt_parmbind type abap_parmbind_tab.                |        |
| 5      |                                                    |        |
| 6      | ls_parmbind-name = 'OUTPUT'.                       |        |
| 7      | ls_parmbind-kind = cl_abap_objectdescr->importing. |        |
| 8      | get reference of OUTPUT into ls_parmbind-value.    |        |
| 9      | insert ls_parmbind into table lt_parmbind.         |        |
| 10     |                                                    |        |
| 11     | if_proxy_client~execute(                           |        |
| 12     | exporting                                          |        |
| 13     | method_name = 'SI_IA_ORDER_ACK_STATUS_FAILURE'     |        |
| 14     | changing                                           |        |
| 15     | parmbind_tab = lt_parmbind                         |        |
| 16     | ).                                                 |        |
| 17     |                                                    |        |
| 18     | endmethod.                                         |        |
| 19     |                                                    |        |

## Service providers for PI

Wednesday, August 7, 2019 8:24 AM



# How to Debug & Test inbound PI PROXIES

Thursday, August 1, 2019 6:11 PM

<http://saptechnical.com/Tutorials/XI/Debug/Index.htm>

## Greybar Hotkey PI interface

Thursday, August 1, 2019 5:22 PM

In PI :-

|           |                                |                                           |                     |                                           |
|-----------|--------------------------------|-------------------------------------------|---------------------|-------------------------------------------|
| Sender    | Party                          | <input type="button" value="Input Help"/> | Component           | <input type="button" value="Input Help"/> |
| Interface | SI_OA_Hotkey_PriceAvailability | <input type="button" value="Input Help"/> | Interface Namespace | <input type="button" value="Input Help"/> |
| Receiver  | Party                          | <input type="button" value="Input Help"/> | Component           | <input type="button" value="Input Help"/> |
| Interface |                                | <input type="button" value="Input Help"/> | Interface Namespace | <input type="button" value="Input Help"/> |

112 Data Records Found

### Performance Data

| Performance Details             |                 |                           |                             |                         |                                 |                    |
|---------------------------------|-----------------|---------------------------|-----------------------------|-------------------------|---------------------------------|--------------------|
| Unique ID                       | Size<br>(bytes) | 1. Time<br>Stamp<br>(UTC) | Last Time<br>Stamp<br>(UTC) | ProcessTime<br>Time [s] | Component                       | Processing<br>Mode |
| 3C4A82C029-A1E9A06A050A42D90126 | 6,166           | 01:08:19                  | 01:08:19                    | 0.000                   | XIntegrationEvents.15.sapurnipB | S                  |
| 3C4A82C029-A1E9A06A050A42D90127 | 6,165           | 01:08:19                  | 01:08:19                    | 3.446                   | XIntegrationEvents.15.sapurnipB | S                  |

SXMB\_MONI

The screenshot shows the 'Monitor for Processed XML Messages' application interface. At the top, there's a toolbar with standard options like Program, Edit, Goto, System, and Help. Below the toolbar, the title bar reads 'Monitor for Processed XML Messages'. The main area contains several sections:

- Length of Output List:** Set to 200.
- Select Messages By:** Radio buttons for 'Status Group' (selected) and 'Status'.
- Standard Selection Criteria:** Advanced Selection Criteria | User-Defined Selection Criteria.
- End of Execution:** From Date/Time: 08/01/2019 / 00:00:00; To Date/Time: 08/02/2019 / 00:00:00.
- Sender:** Party, Component, Interface Name, Interface Namespace, Operation. The Interface Namespace field contains 'SI\_OA\_ECC\_PriceAvailabilitySiteCat' and the Interface Namespace field contains 'urn:cooperindustries.com:QTC:ERP:Hotkey:PriceAndAvail...'.
- Receiver:** Party, Component, Interface Name, Interface Namespace, Operation.

| Monitor for Processed XML Messages |               |                   |             |               |           |                      |                  |                                                            |                                    |                    |                    |                     |          |                  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------------|---------------|-------------------|-------------|---------------|-----------|----------------------|------------------|------------------------------------------------------------|------------------------------------|--------------------|--------------------|---------------------|----------|------------------|--|--|--|--|--|--|--|--|--|--|--|
| Display                            |               | Error Information |             | Attributes    |           | Referencing Messages |                  | Restart                                                    |                                    | Expand             |                    | Expand All Messages |          |                  |  |  |  |  |  |  |  |  |  |  |  |
| 134 XML Messages Found             |               |                   |             |               |           |                      |                  |                                                            |                                    |                    |                    |                     |          |                  |  |  |  |  |  |  |  |  |  |  |  |
|                                    |               |                   |             |               |           |                      |                  |                                                            |                                    |                    |                    |                     |          |                  |  |  |  |  |  |  |  |  |  |  |  |
| XML Messages                       |               |                   |             |               |           |                      |                  |                                                            |                                    |                    |                    |                     |          |                  |  |  |  |  |  |  |  |  |  |  |  |
| Overall Stat.                      | Outbox Status | Details           | Ack. Status | Executed From | StartTime | EndTime              | Sender Component | Sender Namespace                                           | Sender Interface                   | Receiver Component | Receiver Namespace | Receiver Interface  | Pipeline | Version          |  |  |  |  |  |  |  |  |  |  |  |
|                                    |               |                   |             | 08/01/2019    | 08:24:18  | 08:24:19             | 947100_P         | umxcooperindustries.com Q CERP-Hotkey PriceAndAvailability | SI_OA_ECC_PriceAvailabilitySiteCat |                    |                    |                     | SENDER   | "Current Status" |  |  |  |  |  |  |  |  |  |  |  |
|                                    |               |                   |             |               | 08:33:42  | 08:33:42             | 947100_P         | umxcooperindustries.com Q CERP-Hotkey PriceAndAvailability | SI_OA_ECC_PriceAvailabilitySiteCat |                    |                    |                     | SENDER   | "Current Status" |  |  |  |  |  |  |  |  |  |  |  |
|                                    |               |                   |             |               | 08:35:12  | 08:35:13             | 947100_P         | umxcooperindustries.com Q CERP-Hotkey PriceAndAvailability | SI_OA_ECC_PriceAvailabilitySiteCat |                    |                    |                     | SENDER   | "Current Status" |  |  |  |  |  |  |  |  |  |  |  |
|                                    |               |                   |             |               | 08:36:47  | 08:36:48             | 947100_P         | umxcooperindustries.com Q CERP-Hotkey PriceAndAvailability | SI_OA_ECC_PriceAvailabilitySiteCat |                    |                    |                     | SENDER   | "Current Status" |  |  |  |  |  |  |  |  |  |  |  |
|                                    |               |                   |             |               | 08:41:36  | 08:41:37             | 947100_P         | umxcooperindustries.com Q CERP-Hotkey PriceAndAvailability | SI_OA_ECC_PriceAvailabilitySiteCat |                    |                    |                     | SENDER   | "Current Status" |  |  |  |  |  |  |  |  |  |  |  |
|                                    |               |                   |             |               | 08:42:55  | 08:42:56             | 947100_P         | umxcooperindustries.com Q CERP-Hotkey PriceAndAvailability | SI_OA_ECC_PriceAvailabilitySiteCat |                    |                    |                     | SENDER   | "Current Status" |  |  |  |  |  |  |  |  |  |  |  |
|                                    |               |                   |             |               | 08:58:36  | 08:58:36             | 947100_P         | umxcooperindustries.com Q CERP-Hotkey PriceAndAvailability | SI_OA_ECC_PriceAvailabilitySiteCat |                    |                    |                     | SENDER   | "Current Status" |  |  |  |  |  |  |  |  |  |  |  |
|                                    |               |                   |             |               | 09:18:39  | 09:18:39             | 947100_P         | umxcooperindustries.com Q CERP-Hotkey PriceAndAvailability | SI_OA_ECC_PriceAvailabilitySiteCat |                    |                    |                     | SENDER   | "Current Status" |  |  |  |  |  |  |  |  |  |  |  |
|                                    |               |                   |             |               | 09:18:50  | 09:18:52             | 947100_P         | umxcooperindustries.com Q CERP-Hotkey PriceAndAvailability | SI_OA_ECC_PriceAvailabilitySiteCat |                    |                    |                     | SENDER   | "Current Status" |  |  |  |  |  |  |  |  |  |  |  |
|                                    |               |                   |             |               | 09:20:22  | 09:20:22             | 947100_P         | umxcooperindustries.com Q CERP-Hotkey PriceAndAvailability | SI_OA_ECC_PriceAvailabilitySiteCat |                    |                    |                     | SENDER   | "Current Status" |  |  |  |  |  |  |  |  |  |  |  |
|                                    |               |                   |             |               | 09:20:36  | 09:20:36             | 947100_P         | umxcooperindustries.com Q CERP-Hotkey PriceAndAvailability | SI_OA_ECC_PriceAvailabilitySiteCat |                    |                    |                     | SENDER   | "Current Status" |  |  |  |  |  |  |  |  |  |  |  |
|                                    |               |                   |             |               | 09:20:48  | 09:20:49             | 947100_P         | umxcooperindustries.com Q CERP-Hotkey PriceAndAvailability | SI_OA_ECC_PriceAvailabilitySiteCat |                    |                    |                     | SENDER   | "Current Status" |  |  |  |  |  |  |  |  |  |  |  |
|                                    |               |                   |             |               | 09:25:01  | 09:25:01             | 947100_P         | umxcooperindustries.com Q CERP-Hotkey PriceAndAvailability | SI_OA_ECC_PriceAvailabilitySiteCat |                    |                    |                     | SENDER   | "Current Status" |  |  |  |  |  |  |  |  |  |  |  |
|                                    |               |                   |             |               | 09:25:30  | 09:25:30             | 947100_P         | umxcooperindustries.com Q CERP-Hotkey PriceAndAvailability | SI_OA_ECC_PriceAvailabilitySiteCat |                    |                    |                     | SENDER   | "Current Status" |  |  |  |  |  |  |  |  |  |  |  |
|                                    |               |                   |             |               | 09:25:46  | 09:25:47             | 947100_P         | umxcooperindustries.com Q CERP-Hotkey PriceAndAvailability | SI_OA_ECC_PriceAvailabilitySiteCat |                    |                    |                     | SENDER   | "Current Status" |  |  |  |  |  |  |  |  |  |  |  |
|                                    |               |                   |             |               | 09:38:40  | 09:38:41             | 947100_P         | umxcooperindustries.com Q CERP-Hotkey PriceAndAvailability | SI_OA_ECC_PriceAvailabilitySiteCat |                    |                    |                     | SENDER   | "Current Status" |  |  |  |  |  |  |  |  |  |  |  |
|                                    |               |                   |             |               | 09:38:55  | 09:38:55             | 947100_P         | umxcooperindustries.com Q CERP-Hotkey PriceAndAvailability | SI_OA_ECC_PriceAvailabilitySiteCat |                    |                    |                     | SENDER   | "Current Status" |  |  |  |  |  |  |  |  |  |  |  |
|                                    |               |                   |             |               | 09:38:56  | 09:38:56             | 947100_P         | umxcooperindustries.com Q CERP-Hotkey PriceAndAvailability | SI_OA_ECC_PriceAvailabilitySiteCat |                    |                    |                     | SENDER   | "Current Status" |  |  |  |  |  |  |  |  |  |  |  |
|                                    |               |                   |             |               | 09:39:41  | 09:39:42             | 947100_P         | umxcooperindustries.com Q CERP-Hotkey PriceAndAvailability | SI_OA_ECC_PriceAvailabilitySiteCat |                    |                    |                     | SENDER   | "Current Status" |  |  |  |  |  |  |  |  |  |  |  |
|                                    |               |                   |             |               | 09:39:49  | 09:39:50             | 947100_P         | umxcooperindustries.com Q CERP-Hotkey PriceAndAvailability | SI_OA_ECC_PriceAvailabilitySiteCat |                    |                    |                     | SENDER   | "Current Status" |  |  |  |  |  |  |  |  |  |  |  |
|                                    |               |                   |             |               | 09:46:08  | 09:46:09             | 947100_P         | umxcooperindustries.com Q CERP-Hotkey PriceAndAvailability | SI_OA_ECC_PriceAvailabilitySiteCat |                    |                    |                     | SENDER   | "Current Status" |  |  |  |  |  |  |  |  |  |  |  |
|                                    |               |                   |             |               | 09:55:30  | 09:55:31             | 947100_P         | umxcooperindustries.com Q CERP-Hotkey PriceAndAvailability | SI_OA_ECC_PriceAvailabilitySiteCat |                    |                    |                     | SENDER   | "Current Status" |  |  |  |  |  |  |  |  |  |  |  |
|                                    |               |                   |             |               | 09:55:39  | 09:55:39             | 947100_P         | umxcooperindustries.com Q CERP-Hotkey PriceAndAvailability | SI_OA_ECC_PriceAvailabilitySiteCat |                    |                    |                     | SENDER   | "Current Status" |  |  |  |  |  |  |  |  |  |  |  |
|                                    |               |                   |             |               | 09:56:45  | 09:56:45             | 947100_P         | umxcooperindustries.com Q CERP-Hotkey PriceAndAvailability | SI_OA_ECC_PriceAvailabilitySiteCat |                    |                    |                     | SENDER   | "Current Status" |  |  |  |  |  |  |  |  |  |  |  |
|                                    |               |                   |             |               | 09:57:09  | 09:57:10             | 947100_P         | umxcooperindustries.com Q CERP-Hotkey PriceAndAvailability | SI_OA_ECC_PriceAvailabilitySiteCat |                    |                    |                     | SENDER   | "Current Status" |  |  |  |  |  |  |  |  |  |  |  |
|                                    |               |                   |             |               | 10:13:04  | 10:13:05             | 947100_P         | umxcooperindustries.com Q CERP-Hotkey PriceAndAvailability | SI_OA_ECC_PriceAvailabilitySiteCat |                    |                    |                     | SENDER   | "Current Status" |  |  |  |  |  |  |  |  |  |  |  |
|                                    |               |                   |             |               | 10:13:04  | 10:13:05             | 947100_P         | umxcooperindustries.com Q CERP-Hotkey PriceAndAvailability | SI_OA_ECC_PriceAvailabilitySiteCat |                    |                    |                     | SENDER   | "Current Status" |  |  |  |  |  |  |  |  |  |  |  |
|                                    |               |                   |             |               | 10:17:01  | 10:17:02             | 947100_P         | umxcooperindustries.com Q CERP-Hotkey PriceAndAvailability | SI_OA_ECC_PriceAvailabilitySiteCat |                    |                    |                     | SENDER   | "Current Status" |  |  |  |  |  |  |  |  |  |  |  |
|                                    |               |                   |             |               | 10:18:49  | 10:18:50             | 947100_P         | umxcooperindustries.com Q CERP-Hotkey PriceAndAvailability | SI_OA_ECC_PriceAvailabilitySiteCat |                    |                    |                     | SENDER   | "Current Status" |  |  |  |  |  |  |  |  |  |  |  |
|                                    |               |                   |             |               | 10:22:30  | 10:22:33             | 947100_P         | umxcooperindustries.com Q CERP-Hotkey PriceAndAvailability | SI_OA_ECC_PriceAvailabilitySiteCat |                    |                    |                     | SENDER   | "Current Status" |  |  |  |  |  |  |  |  |  |  |  |
|                                    |               |                   |             |               | 10:22:40  | 10:22:41             | 947100_P         | umxcooperindustries.com Q CERP-Hotkey PriceAndAvailability | SI_OA_ECC_PriceAvailabilitySiteCat |                    |                    |                     | SENDER   | "Current Status" |  |  |  |  |  |  |  |  |  |  |  |
|                                    |               |                   |             |               | 10:24:20  | 10:24:21             | 947100_P         | umxcooperindustries.com Q CERP-Hotkey PriceAndAvailability | SI_OA_ECC_PriceAvailabilitySiteCat |                    |                    |                     | SENDER   | "Current Status" |  |  |  |  |  |  |  |  |  |  |  |
|                                    |               |                   |             |               | 10:29:04  | 10:29:04             | 947100_P         | umxcooperindustries.com Q CERP-Hotkey PriceAndAvailability | SI_OA_ECC_PriceAvailabilitySiteCat |                    |                    |                     | SENDER   | "Current Status" |  |  |  |  |  |  |  |  |  |  |  |
|                                    |               |                   |             |               | 10:29:06  | 10:29:07             | 947100_P         | umxcooperindustries.com Q CERP-Hotkey PriceAndAvailability | SI_OA_ECC_PriceAvailabilitySiteCat |                    |                    |                     | SENDER   | "Current Status" |  |  |  |  |  |  |  |  |  |  |  |

## SPROXY transaction



how to find  
class relat...

The screenshot shows the SAP Workbench interface with the following details:

- Object Navigator** (left sidebar):
  - MIME Repository
  - Repository Browser
  - Repository Information System
  - Tag Browser
  - Transport Organizer
  - Test Repository
  - Enterprise Services Browser
  - Connectivity Browser
- Enterprise Services: Initial Screen** (main window):
  - Proxy Object: Web Service Definition
  - Service Group: None
  - Internal Key**: ABAP Name = ECO\_II\_SI\_IS\_ECC\_PRICE\_AND\_AVAILABILITY, ABAP Type = INTF Interface
  - External Key**: Gen. Appl. = Enterprise Services Repository, Type = Service Provider, Name = SI\_IS\_ECC\_PriceAndAvailability, Namespace = urn:cooperindustries.com:QTC:ERP:Hockey:PriceAndAvailability

Proxy Edit Goto Utilities System Help

Display Service Provider SI\_IS\_ECC\_PriceAndAvailability

this is for hotkey

Service Provider SI\_IS\_ECC\_PriceAndAvailability Active

Properties External View Internal View Objects Configuration WSDL Classifications

**Service Provider**

- Name: SI\_IS\_ECC\_PriceAndAvailability
- Namespace: urn:cooperindustries.com:QTC:ERF:Hotkey:PriceAndAvailability
- ABAP Object: INTF Interface
- ABAP Name: ZCO\_IT\_SI\_IS\_ECC\_PRICE\_AND\_AVAILABILITY
- Prefix: ZCO\_
- Source: Enterprise Services Repository
- Description: Proxy Interface (generated)
- Implementing Class: ZCO\_CL\_SI\_IS\_ECC\_PRICE\_AND\_AVAILABILITY
- WebService Definition: ZSI\_IS\_ECC\_PriceAndAvailability

**General Data**

- Package: ZUNITY\_QTC
- Original Language: EN English
- Created by: KGF04 on 04/26/2012 10:07:36
- Changed by: KGF04 on 04/26/2012 10:09:41

Service Definition Edit Goto Utilities Environment System Help

SAP

Display Service Definition ZSI\_IS\_ECC\_PriceAndAvailability

webservice Definition

Service Definition (autogenerated) ZSI\_IS\_ECC\_PriceAndAvailability Active

Properties External View Internal View Objects Configuration WSDL Classifications

**Identification**

- Technical Name: ZSI\_IS\_ECC\_PRICEANDAVAILABILITY
- Porttype Name: SI\_IS\_FOOLY
- Short Description: Price And Availability
- SOAP Namespace: urn:cooperindustries.com:QTC:ERF:Hotkey:PriceAndAvailability

**Endpoint**

- Endpoint Type: Service Interface
- Referenced Object: ZCO\_IT\_SI\_IS\_ECC\_PRICE\_AND\_AVAILABILITY

**General Data**

- Package: ZUNITY\_QTC
- Original Language: EN
- Created by: KGF04 on 04/26/2012 06:07:34
- Changed by: KGF04 on 04/26/2012 06:09:41

Display Service Definition ZSI\_IS\_ECC\_PriceAndAvailability

Service Definition (autogenerated) ZSI\_IS\_ECC\_PriceAndAvailability Active

Properties External View Internal View Objects Configuration WSDL Classifications

External Name ZSI\_IS\_ECC\_PriceAndAvailability

Service Provider

|                |                                                         |
|----------------|---------------------------------------------------------|
| Name           | ZSI_IS_ECC_PriceAndAvailability                         |
| Namespace      | urn:cooperindustries.com:QTC:ERP:Hotkey:PriceAndAvail.. |
| ABAP Object    | INTF Interface                                          |
| ABAP Name      | ZCO_JL_SI_IS_ECC_PRICE_AND_AVA                          |
| Prefix         | ZCO_                                                    |
| Description    | Proxy Interface (generated)                             |
| Pattern        | Stateless                                               |
| Security Level | Low                                                     |

Input

- EXTPARNUM
- CONTACT
- EMAIL
- PHONEBMR
- ROLECLASSCD
- SUPPLYCHND
- PARTCLASSCD
- REQDATETIME
- PROPOCID
- ITEMS

Output

- Header
- CONTACT
- EMAIL
- PHONEBMR
- ROLECLASSCD
- SUPPLYCHND
- PARTCLASSCD
- REQDATETIME
- PROPOCID
- HeaderResponse
- SEONO
- MATNR
- MATDSG
- CATALOGNO
- TOTINV
- AFFIRM
- CATMSG
- DetailResponse

external view to SAP PI

Display Service Definition ZSI\_IS\_ECC\_PriceAndAvailability

Service Definition (autogenerated) ZSI\_IS\_ECC\_PriceAndAvailability Active

Properties External View Internal View Objects Configuration WSDL Classifications

ABAP Name ZCO\_JL\_SI\_IS\_ECC\_PRICE\_AND\_AVA

Service Provider

|                |                                                         |
|----------------|---------------------------------------------------------|
| Name           | ZSI_IS_ECC_PriceAndAvailability                         |
| Namespace      | urn:cooperindustries.com:QTC:ERP:Hotkey:PriceAndAvail.. |
| ABAP Object    | INTF Interface                                          |
| ABAP Name      | ZCO_JL_SI_IS_ECC_PRICE_AND_AVA                          |
| Prefix         | ZCO_                                                    |
| Description    | Proxy Interface (generated)                             |
| Pattern        | Stateless                                               |
| Security Level | Low                                                     |

Input

- EXTPARNUM
- CONTACT
- EMAIL
- PHONEBMR
- ROLECLASSCD
- SUPPLYCHND
- PARTCLASSCD
- REQDATETIME
- PROPOCID
- ITEMS

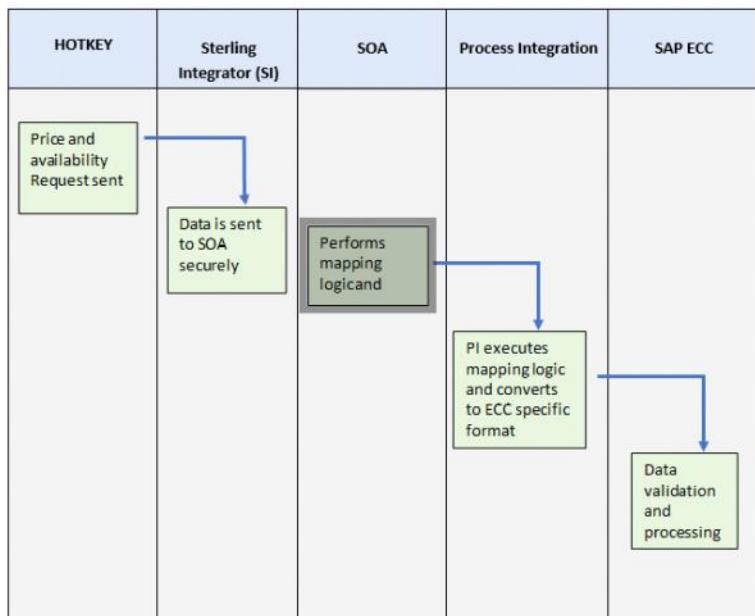
Output

- Header
- CONTACT
- EMAIL
- PHONEBMR
- ROLECLASSCD
- SUPPLYCHND
- PARTCLASSCD
- REQDATETIME
- PROPOCID
- HEADER\_RESPONSE
- DETAIL\_RESPONSE

internal view is a FM

# Greybar Hotkey Architecture

Friday, August 2, 2019 12:18 PM



Inbound Interface Diagram:



Outbound Interface Diagram:



# Greybar Proxy

Tuesday, May 12, 2020 4:35 PM

[https://eaton-my.sharepoint.com/personal/naraharivedula\\_eaton\\_com/Documents>Notebooks/ABAP%20Small%20projects%20-%20Linked%20Files/CD500400-E7B9-4326-9CE1-8D040175EBDF.MP4](https://eaton-my.sharepoint.com/personal/naraharivedula_eaton_com/Documents>Notebooks/ABAP%20Small%20projects%20-%20Linked%20Files/CD500400-E7B9-4326-9CE1-8D040175EBDF.MP4)

# Preferred approach for enhancements (by order of preference)

Wednesday, April 22, 2020 1:00 PM

**1) BADI**

**2) Customer Exits**

**3) Implicit enhancement spots?**

Confirmed by Anitha chamarthi (order of preference)

First User exits,  
then Customer Exits,  
then BADIs and  
then explicit enhancements and  
then implicit enhancements

---

Vedula, Narahari(Hari)

ok

oka ABAP question andi

---

Chamarthi, Anitha

sure

---

Vedula, Narahari(Hari)

when we are searching for enhancement options....order of preference?

1) BADI

2) Customer Exits

3) Implicit Enhancement spots aa?

---

Chamarthi, Anitha

First User exits, then Customer Exits, then BADIs and then explicit enhancements and then implicit enhancements

---

Vedula, Narahari(Hari)

oh 😊

.....

# How to Implement a BAdl

Friday, March 27, 2020 4:58 PM

## How to Implement a BAdl



In the previous example ( [Building Your First BAdl](#) ) you defined a BAdl, provided a fallback class, instantiated the BAdl and called a BAdl method. You also provided an enhancement spot to serve as a container for the BAdl.

As you already know, the fallback class is chosen in case no BAdl implementation is available. As you have not created a BAdl implementation so far, the method implementation of the fallback class is used in your example code.

In this section you will learn how to create a BAdl implementation. As soon as there is a suitable BAdl implementation, the methods of the fallback class are not used any longer.

The entries you have so far are:

- Enhancement spot z\_es\_calc\_tax , in which the BAdl z\_badi\_calc\_vat lives.
- Interface z\_if\_calc\_vat with one method get\_vat() .

The BAdl interface defines an important part of the BAdl identity. It defines the BAdl methods that can be used.

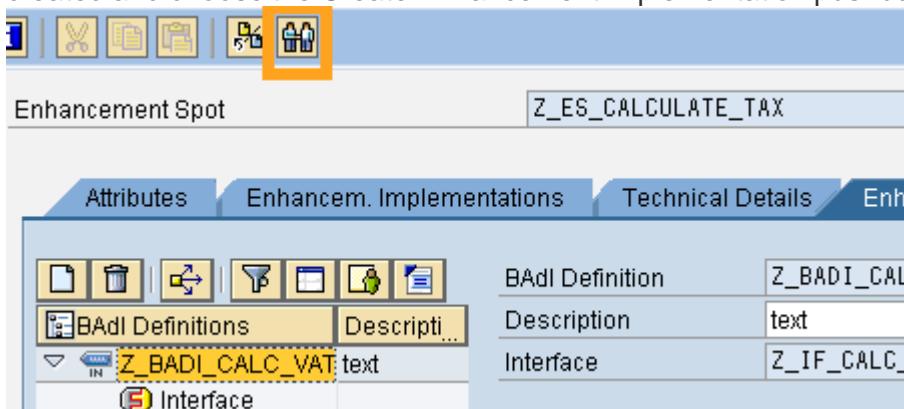
### Create a Container for the Implementation

The definition and the implementation of BAdls have one similarity - just as you need an enhancement spot to act as a container for the BAdl, you cannot build a BAdl implementation unless you have the relevant container first.

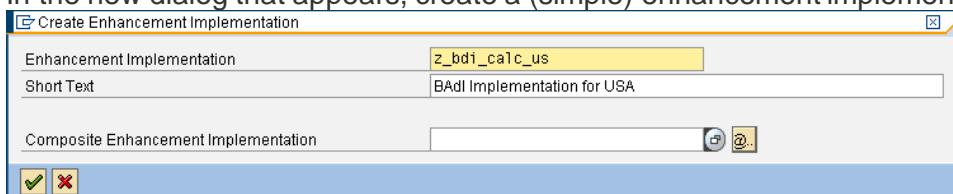
The relevant container type for BAdl implementations is called a (simple) enhancement implementation. A simple enhancement implementation can keep many different BAdl implementations, but with one restriction: a simple enhancement implementation is uniquely assigned to an enhancement spot. That is, a (simple) enhancement implementation can keep only BAdl implementations of BAdls that belong to the spot the simple enhancement implementation is assigned to. Therefore, a (simple) enhancement implementation cannot keep BAdl implementations that implement BAdls belonging to different spots.

That is why you have to create a container that is uniquely assigned to the enhancement spot to which your BAdl belongs. The respective tool in the SE80 has paved a smooth way to do this:

1. In the Object Navigator (transaction SE80), open the enhancement spot you have already created and choose the Create Enhancement Implementation pushbutton.



2. In the new dialog that appears, create a (simple) enhancement implementation:



**Create Enhancement Implementation**

|                                                              |                                                          |
|--------------------------------------------------------------|----------------------------------------------------------|
| Enhancement Implementation                                   | <input type="text" value="z_ei_badi_calc_us"/>           |
| Short Text                                                   | <input type="text" value="BAdI Implementation for USA"/> |
| Composite Enhancement Implementation                         |                                                          |
| <input checked="" type="checkbox"/> <input type="checkbox"/> |                                                          |

The following new window opens:

**Select BAdI Definition, Enter Name of BAdI Implementation**

| BAdI Definition        | BAdI Implementation | Short Text |
|------------------------|---------------------|------------|
| <b>Z_BADI_CALC_VAT</b> |                     | text       |
|                        |                     |            |

What are you asked to enter here?

You have created so far a container for BAdI implementations- an enhancement implementation. This container is uniquely assigned to your enhancement spot. Once this connection is established, you can create a BAdI implementation for the BAdI within the enhancement spot. Since you have defined only one BAdI within the enhancement spot, you have no choice. If you had more BAdIs in your enhancement spot, this will be the point where you would select which BAdI you want to implement.

- Enter z\_bdi\_calc\_vat\_us as the name of the BAdI implementation, confirm and save the enhancement spot in the next figure, which shows a (simple) enhancement implementation that contains the BAdI implementation z\_bdi\_calc\_vat\_us :

**Enhancement Implementation**  Inactive

|                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                             |                                                                                                                                                      |                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| <b>Properties</b>                                                                                                                                                                                                  | <b>History</b>                                                                                                                                                                                                                                                              | <b>Technical Details</b>                                                                                                                             | <b>Enh. Implementation Elements</b> |
| <input type="button" value="New"/> <input type="button" value="Edit"/> <input type="button" value="Delete"/> <input type="button" value="BAdI"/>                                                                   | <b>BAdI Implementation</b> <input type="text" value="Z_BDI_CALC_VAT_US"/><br><input type="checkbox"/> <b>BAdI Implementations</b> <input type="text" value="Z_BDI_CALC_VAT_US"/> <b>Description</b> Implementation: text<br><input type="checkbox"/> Default Implementation | <b>Runtime Behavior</b><br><input checked="" type="checkbox"/> Implementation is active<br><b>Effect in Current Client:</b> Implementation is called |                                     |
| <b>Properties of BAdI Definition</b><br>BAdI Definition Name <input type="text" value="Z_BADI_CALC_VAT"/><br>Description <input type="text" value="text"/><br>Interface <input type="text" value="Z_IF_CALC_VAT"/> |                                                                                                                                                                                                                                                                             |                                                                                                                                                      |                                     |

The appearance of a (simple) enhancement implementation in the tool is pretty much like the one of an enhancement spot. Under the Enh. Implementation Elements tab there is a tree with the BAdI implementation(s) contained on the right-hand side. On the left, you see the properties of the marked BAdI implementation.

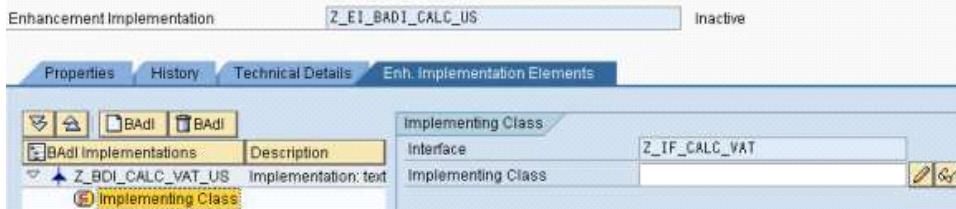
#### Note

Select the property Implementation is active in the Runtime Behavior pane in the figure above. If you do this, the text below changes to Implementation is called. This is intended to help you understand what the selection you have just made is for. Further below, there is a list that shows the properties of the BAdI definition your BAdI implementation is assigned to.

#### The Implementing Class

Now that you have a BAdI implementation, you need an implementing class.

- Choose the triangle in front of the name of the BAdI implementation in the tree.
- In the Implementing Class field, enter z\_cl\_calc\_vat\_us and choose the Change pushbutton.



The Class Builder opens. The relevant interface methods are already defined there. In your case it is only the method `get_vat()`.

3. Implement the method using the following source snippet:

```
DATA: percent type p value 4 .
ex_amount_vat = im_amount * percent / 100 .
ex_percent_vat = percent .
```

4. Save and activate the class.

5. Return to the program and enter the following code:

```
DATA: handle TYPE REF TO z_badi_calc_vat,
```

```
sum TYPE p,
```

```
vat TYPE p,
```

```
percent TYPE p.
```

```
sum = 50.
```

```
GET BADI handle.
```

```
CALL BADI handle->get_vat
```

```
EXPORTING im_amount = sum
```

```
IMPORTING ex_amount_vat = vat
```

```
ex_percent_vat = percent.
```

```
WRITE: 'percentage:', percent, 'VAT:', vat.
```

6. Run the program.

The result is a percentage of four percent. This is because the fallback class is not selected when there is an active BAdI implementation.

#### Creating a Second BAdI Implementation

1. Create another BAdI implementation, this time with the VAT rate of Great Britain. To make your example more like real world programming, you create another enhancement implementation, that is, another container. This is because implementing the taxes for different countries most probably belongs to different projects and because the structure of the (simple) enhancement implementations must mirror the project structure.
2. Navigate to your enhancement spot and use the same button as you have done above. Name the BAdI implementation `z_bdi_calc_vat_gb`, and the implementing class `Z_CL_CALC_VAT_GB`. The implementation of the method `get_vat` is the same as for USA except for the VAT rate, which you assume to be 16.5%.
3. After saving and activating the enhancement implementation and the class, return to the program and run it again.

This time you get a short dump with the exception `cx_badi_multiply_implemented`.

#### Note

You have defined a single-use BAdI by deselecting the Multiple Use option. When instantiating a single-use BAdI, you have to make sure that there is only one active non-default implementation. Otherwise, you get the respective exceptions at runtime.

What you need now is a way to select among different BAdI implementations. That can be easily done with filters. For more information, see [How to Use Filters](#).

Inserted from <[https://help.sap.com/SAPHELP\\_SC700\\_EHP02/helpdata/EN/44/f518d884056c30e1000000a114a6b/content.htm?loaded\\_from\\_frameset=true](https://help.sap.com/SAPHELP_SC700_EHP02/helpdata/EN/44/f518d884056c30e1000000a114a6b/content.htm?loaded_from_frameset=true)>

# Creating, Editing, and Deleting Enhancement Implementations



## Use

The enhanceable development objects like ABAP programs, ABAP classes, ABAP interfaces, ABAP function modules, and WebDynpro components fulfill a certain task that can be enhanced. The corresponding enhancement options are defined implicit or explicit. BAdls are explicit options which are not bound to other enhanceable objects.

These differences result in different processing steps for:

- Enhanceable Development Objects
- BAdls

## Enhanceable Development Objects

Enhanceable developments objects have implicit or explicit options.

There are following development objects that can be enhanced:

- ABAP source code
- ABAP classes
- ABAP interfaces
- ABAP function modules
- WebDynpro components

## Procedure

1. Open the editor of the enhanceable development object.
2. Switch to enhancement mode.

## NOTE

The following processing steps depend on the position you are. So, the following table provides an overview of the available functionalities:

| Enhanceable Development      | Object                                                     |
|------------------------------|------------------------------------------------------------|
| ABAP function modules        | <a href="#">Function Module Enhancements</a>               |
| ABAP classes and interfaces  | <a href="#">Enhancements to Classes and Interfaces</a>     |
| Source Code Plugins          | <a href="#">ABAP Source Code Enhancements</a>              |
| Web Dynro Component Elements | <a href="#">Enhancement Implementations for Web-Dynpro</a> |

## NOTE

In order to delete an enhancement implementation, use the Delete button in transaction SE20, or locate the enhancement implementation in the SE80 object list. Choose Delete from the context menu.

## NOTE

Deleting an enhancement implementation deletes all contained elements.

See below the same processing step for Deleting BAdls

## BAdls

There are the following possibilities to create or edit BAdl implementations:

See general information in [Business Add-Ins \(BAdls\)](#)

## Procedure

1. Start the Object Navigator (SE80).
2. Open the package in which an enhancement implementation is defined or is to be created.

| If you want to               | Then                                   | Or                                 | Or                                 |
|------------------------------|----------------------------------------|------------------------------------|------------------------------------|
| Create a BAdl implementation | a. In the Object Navigator, select the | a. Open the transaction code SE19. | a. Open the transaction code SE18. |

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                    |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                        | <p>select the enhancement spot.</p> <p>b. In the context menu, choose Implement.</p> <p>c. Enter a name for the (simple) enhancement implementation.</p> <p>d. Enter a short text for the (simple) enhancement implementation.</p> <p>e. [Optional:] Select a composite enhancement implementation, or create a new one.</p> <p>f. Choose Creation of Enhancement.</p> <p>g. Confirm with Enter.</p> | <p>code SE19.</p> <p>b. In the window Create Implementation, select the radio button New BAdl.</p> <p>c. Enter the name of the Enhancement Spot or select it via the Input Help window.</p> <p>d. Choose the button Create Impl.</p> <p>e. In the Input Value List, enter the name of the Enhancement Implementation.</p> <p>f. Enter a Short Text.</p> <p>g. Confirm the selection.</p> | <p>code SE18.</p> <p>b. Enter the name of the Enhancement Spot or the BAdl Name.</p> <p>c. Press the button Display.</p> <p>d. In the list of the available BAdls, select the corresponding one.</p> <p>e. In the context menu, select Create BAdl implementation.</p> <p>See more in <a href="#">How to Implement a BAdl</a>.</p> |
| Display or edit an BAdl implementation | <p>a. Select the package and expand it.</p> <p>b. Expand the Enhancements node.</p> <p>c. Expand the Enhancement Implementation s node.</p> <p>d. Select the desired enhancement implementation.</p> <p>e. Select Display or Change from the context menu.</p> <p>f. [Optional] If you only want to display the enhancement implementation, choose Display.</p>                                      | <p>a. Open the transaction code SE19.</p> <p>b. In the window Edit Implementation, select the radio-button New BAdl.</p> <p>c. Enter the name of the Enhancement Implementation.</p> <p>d. Choose the button Display or Change to work on an existing implementation.</p>                                                                                                                |                                                                                                                                                                                                                                                                                                                                    |
| Delete a BAdl implementation           | <p>a. Select the package and expand it.</p> <p>b. Expand the Enhancements node.</p>                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                    |

|                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                     | <p>c. Expand the Enhancement Implementation s node.</p> <p>d. Select the desired enhancement implementation.</p> <p>e. Select Change from the context menu.</p> <p>f. Choose the BAdl implementation from the implementation list.</p> <p>g. In the context menu, choose Delete.</p> |                                                                                                                                                                                                                                                                                                                  |
| Delete an enhancement implementation with all contained BAdl implementations<br><br>NOTE<br>ABAP classes will remain after deletion. If you also want to delete the ABAP class, you have to delete them separately. | <p>a. Select the package and expand it.</p> <p>b. Expand the Enhancements node.</p> <p>c. Expand the Enhancement Implementation s node.</p> <p>d. Select the desired enhancement implementation.</p> <p>e. In the context menu, choose Delete.</p>                                   | <p>a. Open the transaction code SE19.</p> <p>b. In the window Edit Implementation, select the radio-button New BAdl.</p> <p>c. Enter the name of the Enhancement Implementation.</p> <p>d. In the toolbar, click the button Delete.</p> <p>e. In the Delete Enhancement Impl. window, confirm the selection.</p> |

Inserted from <[https://help.sap.com/SAPHELP\\_SCM700\\_EHP02/helpdata/EN/5f/103a4280da9923e10000000a155106/frameset.htm](https://help.sap.com/SAPHELP_SCM700_EHP02/helpdata/EN/5f/103a4280da9923e10000000a155106/frameset.htm)>

# SAP BADI transaction - How to implement a Business Add-In enhancement

Friday, March 27, 2020 4:59 PM

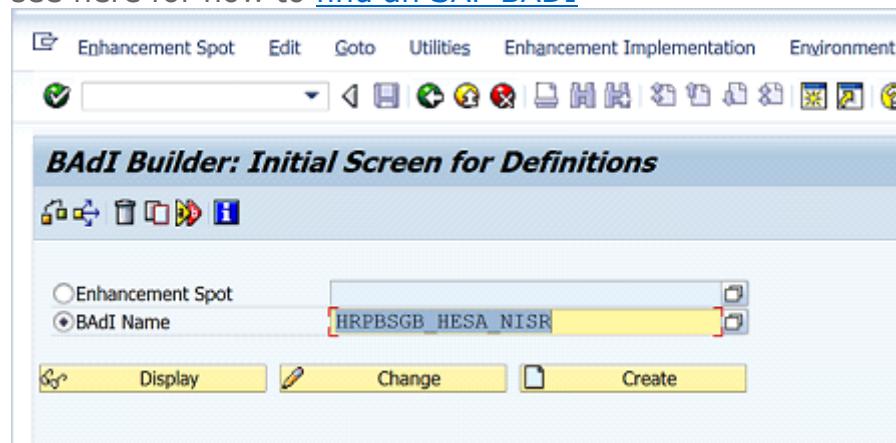
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## SAP BADI enhancement implementation (Business Add-In)

The use of object orientated code within SAP has lead to a new method of enhancing standard SAP code called a Business Add-In or BADI for short. Although the implementation concept is based on classes, methods and inheritance you don't really need to understand this fully to implement a BADI. If you need to, simply think of methods as a function modules with the same import and export parameters and follow the simple instructions below.

### Steps:

1. Execute Business Add-In(BADI) transaction SE18
2. Enter BADI name i.e. HRPBSGB\_HESA\_NISR and press the display button. Also see here for how to [find an SAP BADI](#)



Note the type attributes of this BADI as it is not a multiple use badi and has no filter option. I will go into what this means later in the [multiple use badi](#) section

Type

Within SAP  
 Multiple Use  
 Filter-Depend.

Filter Type   Enhanceable

### 3. Select menu option Implementation->Create

Business Add-Ins: Display

Definition Name: HRPBSGB\_HESA\_NISR

Definition Short Text: HESA New Individual Staff Return

General Data

|                      |                                    |
|----------------------|------------------------------------|
| Package: P08P_HER    | Last Changed By: SAP               |
| Language: EN English | Last change: 29.01.2004   10:37:46 |

Name of Generated BAdI Class: CL\_EX\_HRPBSGB\_HESA\_NISR

Type

Within SAP  
 Multiple Use  
 Filter-Depend.

Filter Type   Enhanceable

### 4. Give the implementation a name such as Z\_HRPBSGB\_HESA\_NISR

Business Add-In Builder: Create Implementation

Implementation Name: Z\_HRPBSGB\_HESA\_NISR

On the next screen enter some implementation short text

Implementation Name: Z\_HRPBSGB\_HESA\_NISR (Inactive)

Implementation Short Text: test badi implementation

Definition Name: HRPBSGB\_HESA\_NISR

Runtime Behavior: Implementation will not be called

General Data

|          |            |
|----------|------------|
| Package  |            |
| Language | EN English |

### 5. You can now implement any ABAP code changes you require within this BADI implementation. For example choose the Interface tab to see the list of available methods you can add your code into.

Implementation Name: Z\_HRPBSGB\_HESA\_NISR (Inactive)

Implementation Short Text: test badi implementation

Definition Name: HRPBSGB\_HESA\_NISR

Runtime Behavior: Implementation will not be called

Proper... Interf...

Interface name: IF\_EX\_HRPBSGB\_HESA\_NISR

Name of Implementing class: ZCL\_IM\_HRPBSGB\_HESA\_NISR

| Method      | Implementat... | Description                               |
|-------------|----------------|-------------------------------------------|
| PERSON      | ABAP Code      | Called after generation of Person table   |
| CONTRACT    | ABAP Code      | Called after generation of Contract table |
| GRADE       | ABAP Code      | Called after generation of Grade table    |
| PERSON_13   | ABAP Code      | Called after generation of Person table   |
| CONTRACT_13 | ABAP Code      | Called after generation of Contract table |

**6.** Before we go any further press the save button and assign your new implementation to a transaport or create it as a local object.

Create Object Directory Entry

Object: R3TR SXCI Z\_HRPBSGB\_HESA\_NISR

Attributes

Package: [Placeholder]

Person Responsible: [Placeholder]

Original System: [Placeholder]

Original language: EN English

Created On: [Placeholder]

Buttons: Local Object, Lock Overview, Save, Cancel

**7.** Double click on the method you want to change (i.e. CONTRACT). You can now enter your ABAP code as required.

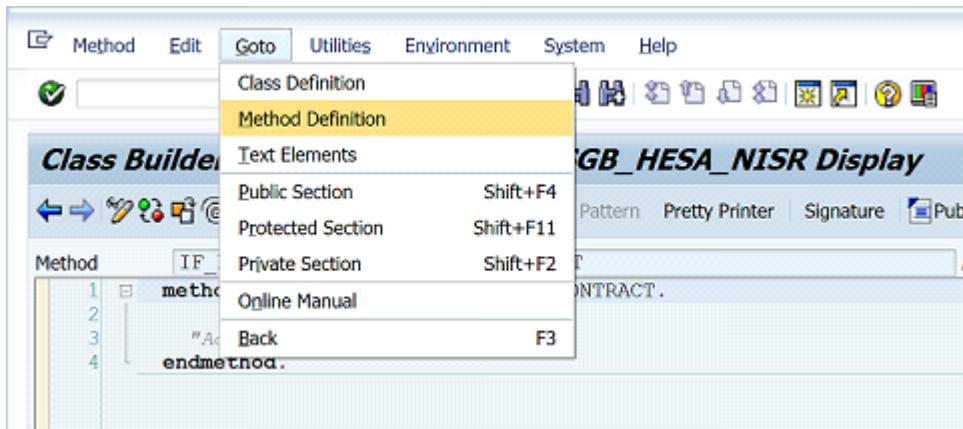
Method: IF\_EX\_HRPBSGB\_HESA\_NISR-CONTRACT Active

```

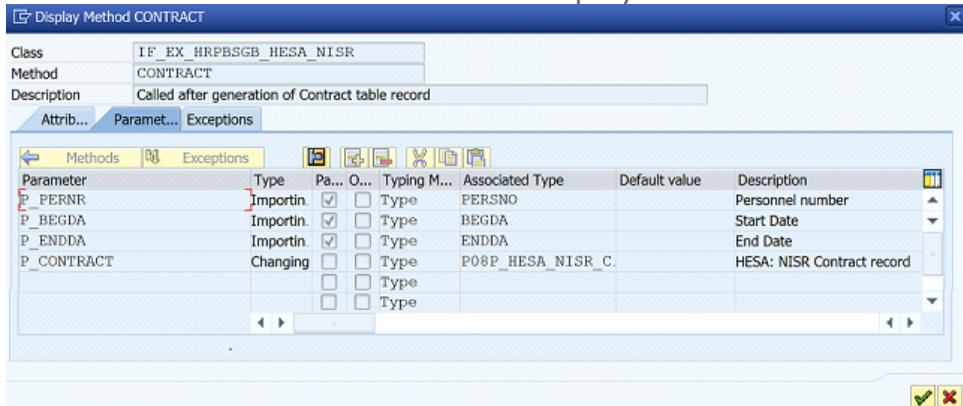
1 | method IF_EX_HRPBSGB_HESA_NISR-CONTRACT.
2 | endmethod.

```

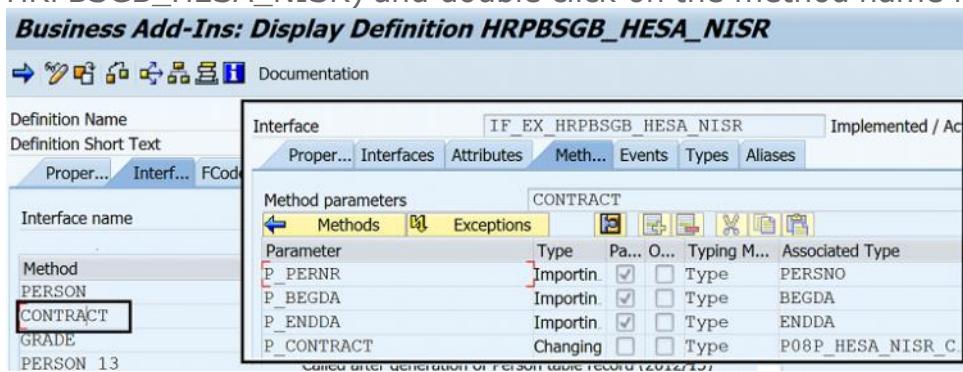
**8.** Please note to view the Methods import and export parameters simply select the menu option Goto->Method Definition.



The method definition will then be displayed



You could also return to the original BADI definition screen (i.e. HRPBSGB\_HESA\_NISR) and double click on the method name from there.



**9.** Once you are familiar with the parameters available you can add your own custom ABAP code. For this example we are going to update changing parameter p\_contract based on importing parameter p\_per nr

```

Method IF_EX_HRPBSGB_HESA_NISR~CONTRACT
1 method IF_EX_HRPBSGB_HESA_NISR~CONTRACT.
2
3 "Add code here
4 if P_PERNR eq '1234'.
5 p_contract = 'test'.
6 endif.
7 endmethod.

```

**10.** Save and activate the method

```

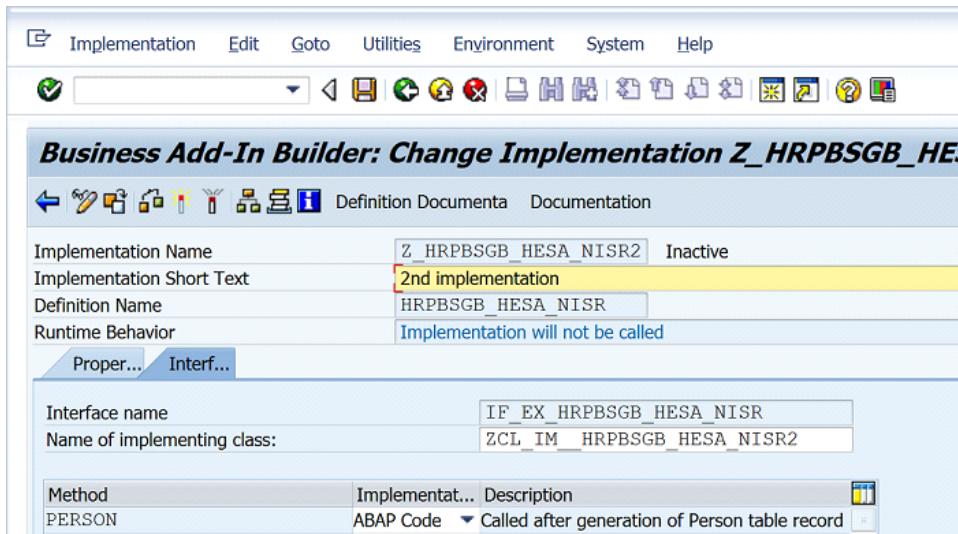
Method IF_EX_HRPBSGB_HESA_NISR~CONTRACT
1 method IF_EX_HRPBSGB_HESA_NISR~CONTRACT.
2
3 "Add code here

```

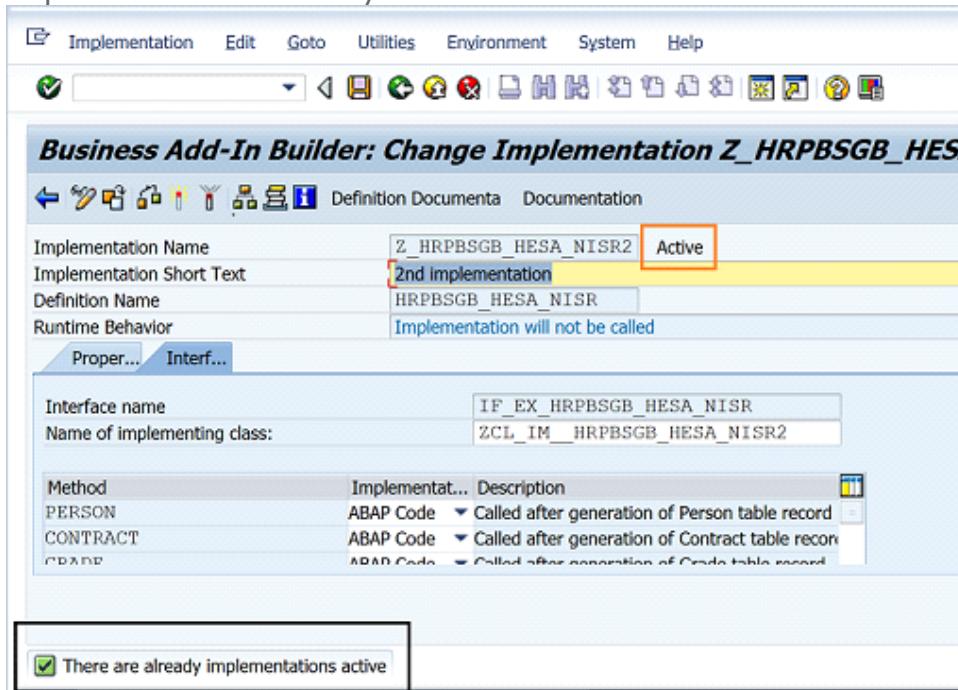
**11.** Then return to the main implementation screen and save and activate the overall implementation

|                                                                                                |                               |                                            |
|------------------------------------------------------------------------------------------------|-------------------------------|--------------------------------------------|
| Implementation Name                                                                            | Z_HRPBSGB_HESA_NISR           | <input checked="" type="checkbox"/> Active |
| Implementation Short Text                                                                      | test badi implementation      |                                            |
| Definition Name                                                                                | HRPBSGB_HESA_NISR             |                                            |
| Runtime Behavior                                                                               | Implementation will be called |                                            |
| <input type="radio"/> Proper... <input type="radio"/> Interf...                                |                               |                                            |
| Interface name                                                                                 | IF_EX_HRPBSGB_HESA_NISR       |                                            |
| Name of implementing class:                                                                    | ZCL_IM_HRPBSGB_HESA_NISR      |                                            |
| <input checked="" type="checkbox"/> BAdI implementation Z_HRPBSGB_HESA_NISR has been activated |                               |                                            |

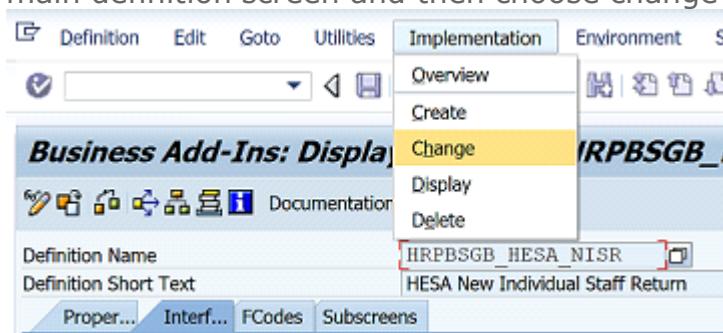
**12.** Remember, as mentioned earlier this is not a multiple use BADI? This basically just means that you can only have one implementation active at any one time. For example if you now create a new implementation called something like Z\_HRPBSGB\_HESA\_NISR2.



Then try activating this, you would get the error message that there are implementations already active.



Ignore the fact that it says active at the top of the screen. If you back out to the main definition screen and then choose change implementation



Select the second implementation

The screenshot shows the SAP Business Add-Ins interface for the definition HRPBSGB\_HESA\_NISR. In the 'Implementation' section, two entries are listed: 'Z\_HRPBSGB\_HESA\_NISR' and 'Z\_HRPBSGB\_HESA\_NISR2'. The entry 'Z\_HRPBSGB\_HESA\_NISR2' is highlighted with a yellow background. Below the table are two buttons: a green checkmark and a red X.

You will see that it is still inactive

|                           |                                   |          |
|---------------------------|-----------------------------------|----------|
| Implementation Name       | Z_HRPBSGB_HESA_NISR2              | Inactive |
| Implementation Short Text | 2nd implementation                |          |
| Definition Name           | HRPBSGB_HESA_NISR                 |          |
| Runtime Behavior          | Implementation will not be called |          |

## Additional Info

If you have used a different method that has filter options, when you save you might get an error message saying 'Specify filter values'. To do this simply go to the properties tab and click on the dropdown menu options for filter values at the bottom and select the entry appropriate to you.

The screenshot shows a SAP interface with a 'Company Code' selection dialog. The dialog title is 'Restrict Value Range (1) 2 Entries found'. It lists 'Company Codes' with columns for 'Co...', 'Company Name', 'City', and 'Crcy'. Two entries are shown: '0001 SAP DEM' and another entry where 'City' and 'Crcy' are partially obscured by black bars.

## Multiple use BADI

Basically a multiple use BADI means that you can create and activate multiple implementations of the BADI definition, which will all get called upon execution of the BADI. See here for more information on [Multiuse BADI's](#)

## BADI related articles

- [Find which BADI's are triggered](#) within a SAP transaction
- [Classic BADI enhancement](#)
- [Multiple Use BADI's](#)
- [Classic BADI with filter](#)
- [Migrated BADI to enhancement](#)
- [All SAP Enhancement](#)

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# Find SAP BADI triggered from a SAP transaction also find tcode from BADI name

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## **Find SAP BADI triggered from a SAP transaction, also find tcode from BADI name**

The following simple steps will allow you to find all BADI's that are called when you execute a specific SAP transaction code. Once you have found the BADI name you can view its full details and implement it via SAP transaction SE18.

If you only have the BADI name the last section will also help you find where the BADI is triggered from.

### **Use SAP function module**

#### **SXV\_GET\_CLIF\_BY\_NAME to find BADI**

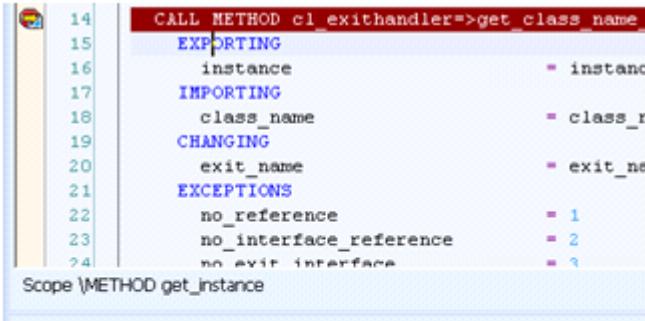
1. Execute transaction SE37 or SE80 and find function module 'SXV\_GET\_CLIF\_BY\_NAME'.
2. Insert a breakpoint in it.
3. Now go to the SAP transaction you want to find a BADI in.
4. When you execute it, it will stop at the above function module.
5. Look at the value of field EXIT\_NAME.
6. This will provide you with the name of the BADI that is available in your SAP transaction code.

### **Use SAP method GET\_INSTANCE of class CL\_EXITHANDLER to find BADI**

Another way to find which BADI's are executed from a specific transaction is to place a break-point within method 'GET\_INSTANCE' of class 'CL\_EXITHANDLER'. To do this use the following steps

1. Execute the class builder transaction SE24
2. Enter the class name 'CL\_EXITHANDLER' and press display

3. Once within the class simply double click on the method GET\_INSTANCE
4. Place a session breakpoint on the first executable line of ABAP code.  
i.e. CALL METHOD cl\_exithandler=>get\_class\_name\_by\_interface
5. Execute the transaction you want to find a BADI in
6. For example if you now execute PA30 the code will stop at the break point and display the following information with variable HRPADAUTH\_AC\_UNIT containing the name of your BADI.



```

14 CALL METHOD cl_exithandler=>get_class_name
15 EXPORTING
16 instance = instance
17 IMPORTING
18 class_name = class_n
19 CHANGING
20 exit_name = exit_na
21 EXCEPTIONS
22 no_reference = 1
23 no_interface_reference = 2
24 no_exit_interface = 3
Scope \METHOD get_instance

```

Variables 1   Variables 2   Locals   Globals   Auto   Memory A

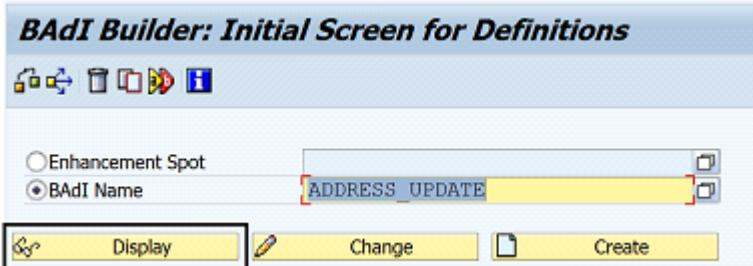
| S... | Variable   | V... | Val.              | C...                                | H... |
|------|------------|------|-------------------|-------------------------------------|------|
|      | INSTANCE   |      | (0:INITIAL)       |                                     |      |
|      | CLASS_NAME |      |                   | <input type="button" value="Edit"/> | 0C   |
|      | EXIT_NAME  |      | HRPADAUTH_AC_UNIT | <input type="button" value="Edit"/> | 0C   |

7. To find more in this transaction simply press the execute(F8) button and the breakpoint will be triggered again if a second BADI is called, keep doing this until all have been found.

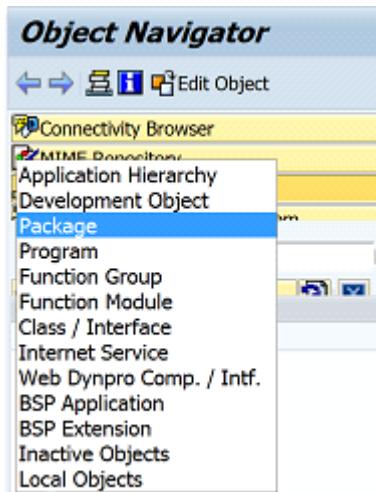
## Help finding SAP Transactions a BADI may be triggered from

This is not an exact science but may help you locate where a BADI is triggered from

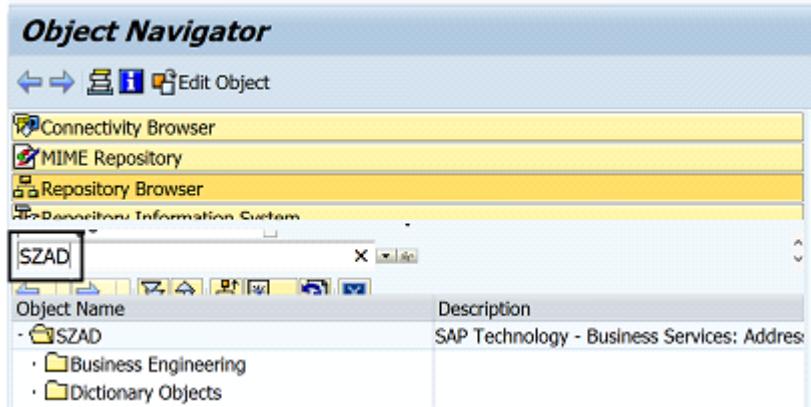
1. Execute the BADI transaction SE18, enter BADI name and press display



2. Within the properties tab you should see the package associated with the BADI (i.e. SZAD). Simply copy it or remember it.
3. Now go to tcode SE80 and select package as the repository browser object type



4. Enter the package name from the BADI properties (i.e. SZAD)



5. Now expand the transactions node and you will see all the tcodes associated with this package, one of which will probably execute this BADI.

| Object Name            | Description                                 |
|------------------------|---------------------------------------------|
| - SZAD                 | SAP Technology - Business Services: Address |
| · Business Engineering |                                             |
| · Dictionary Objects   |                                             |
| · Class Library        |                                             |
| · Programs             |                                             |
| · Function Groups      |                                             |
| · Includes             |                                             |
| · Transactions         |                                             |
| · OVK2                 | C SD Table T005S "Regions"                  |
| · OY07                 | C Configure Countries (T005 - Basis)        |
| · OY09                 | Countries: Mobile Phone Properties          |
| · RSADR7TC70TOADR11    | Conversion of table TC70 in ADR11           |
| · SA01                 | Number range maintenance: ADRNR             |
| · SA02                 | Academic Title (Bus. Addr. Services)        |
| · SA03                 | Titles (Business Address Services)          |
| · SA04                 | Name Prefixes (Bus. Addr. Services)         |
| · SA05                 | Name Suffix (Bus. Address Services)         |
| · SA06                 | Address or personal data source             |

6. Also note all the other objects within this package including programs, includes, function modules etc as well as a full list of other classic BADI's and enhancement spots.

| SAP Technology - Business Services: Address |                                            |
|---------------------------------------------|--------------------------------------------|
| ·  Business Engineering                     |                                            |
| ·  Dictionary Objects                       |                                            |
| ·  Class Library                            |                                            |
| ·  Programs                                 |                                            |
| ·  Function Groups                          |                                            |
| ·  Includes                                 |                                            |
| ·  Transactions                             |                                            |
| ·  SET/GET Parameters                       |                                            |
| ·  Message Classes                          |                                            |
| ·  Switch Framework Objects                 |                                            |
| ·  Authorization Obj's                      |                                            |
| ·  Enhancements                             |                                            |
| ·  Classic BAdIs (Def.)                     |                                            |
| · ADDRESS_CHECK                             | Business Address Services Checks           |
| · ADDRESS_SEARCH                            | Business Address Services Search Calls     |
| · ADDRESS_SUBSCREEN                         | Implementation of Application-Defined Subs |
| · ADDRESS_UPDATE                            | Business Address services Updates          |
| · ADDR_BUPA_TD_READ                         | Read Time-Dependent BUT00 Fields           |
| · ADDR_LANGU_TO_VERS                        | Map Languages to International Address Ver |
| · ADDR_PRINTFORM_SHORT                      | Override short forms in FM ADDRESS_INTO    |
| · ADDR_TXJCD_CHECK                          | Override Address Fields for TXJCD Determin |
| ·  Enhancement Spots                        |                                            |
| ·  Composite Enhancement Spots              |                                            |

## BADI related articles

[Find which BADI's are triggered](#) within a SAP transaction

[Classic BADI enhancement](#)

[Multiple Use BADI's](#)

[Classic BADI with filter](#)

[Migrated BADI to enhancement](#)

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- Enhancement Framework – Introduction

#### [Enhancement Framework – Introduction](#)

By [Naimesh Patel](#) | March 26, 2014 | [Enhancement Implementation](#) | 52,784 | [1](#)

ABAP Enhancement Implementations concept which allows you to easily enhance the standard SAP delivered functionality with your desired one. With this series let's see more about the Enhancement Framework.

### Preface

ABAP Enhancement Implementations concepts are there for a while in SAP. I'm haven't written much about them yet. One of the reader, Hannes Rempel reminded me about the fact. So, I take the opportunity to start writing about this.

I have planned for bunch of articles in this series. Hope you would find something new here.

- [Enhancement Framework – Introduction](#)
- [Enhancement Framework – Explicit Enhancement-POINT Implementation](#)
- [Enhancement Framework – Debugging Implementation](#)
- [Enhancement Framework – Explicit Enhancement-SECTION Implementation](#)
- [Enhancement Framework – Implicit Enhancement Options](#)
- [Enhancement Framework – Class Enhancement](#)
- [Enhancement Framework – Class Enhancement – How designed](#)
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- [Enhancement Framework – Table Enhancement Category](#)
- [Enhancement Framework – Table Enhancement – Append Structure](#)
- [Enhancement Framework – Append Search Help](#)
- [Enhancement Framework – Extension Index](#)
- [Enhancement Framework – Fixed Value Append](#)

### What is an Enhancement

Let's start with very basics. Enhancement is used when you need to enhance the any standard SAP delivered functionality by introduced new code. There are certain ways to achieve the enhancements:

- **Core Modification** – You obtain the access key by registering the object with SAP and make the necessary changes. This is more dangerous and thus least preferable among other techniques. What makes it more dangerous is when SAP provides any OSS note, or while upgrade, there is a great chance of losing the functionality if you don't perform proper SPAU activities.
- **User Exits** – You find SAP delivered Subroutines (PERFORM) which begins with `USEREXIT_` in the std SAP programs. Those Subroutines would be collected in a program. To implement the user exit, you would need to also register the object once. They are little bit safer from upgrade point of view as they are in a separate include.
- **Customer Exits** – You find SAP provided function exits with `CALL CUSTOMER FUNCTION '001'`. This would be a FM with an include. This include would not be delivered by SAP. If you need your new functionality, you need to create the include and implement your code. You would need to create Customer Enhancement Project in CMOD using the Enhancement which houses the Exit function SMOD.
- **BADI (Business Add Ins)** – are the based on Object Oriented Concept. Similarly Std SAP would provide you the BADI calls. You would need to Create the BADI implementation based on the BADI definition. Then you can add your code in the implementation which is essentially a method in the class. You can implement the same BADI multiple times, if the BADI is multiple implementation.

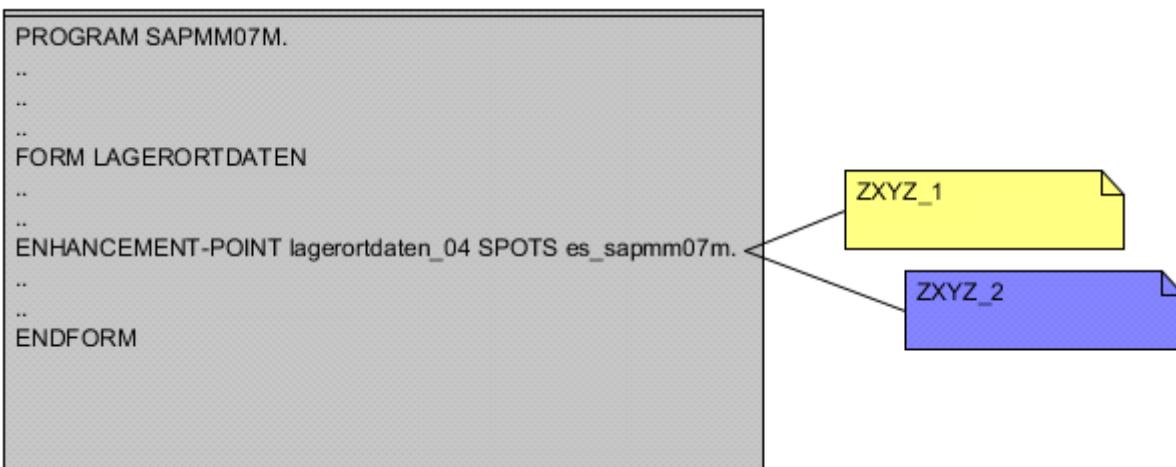
## New Enhancements Technique

Generally [Enhancements Framework](#) enhancements are referred as New Enhancements.

They provide more flexibility compared all of its predecessors. Few advantages are:

- Easy maintenance
- SAP can deliver more than one business processes in the same code
- Customer can activate the business processes
- Upgrade Support

We would learn more about the course of various articles.



## Various Types of Enhancements

There are these new enhancement concepts:

- **Explicit Enhancements** – Explicit enhancements are similarly provided by SAP at various point of the code. They are provided with ENHANCEMENT-POINT and ENHANCEMENT-SECTION. We will learn more about both of them in upcoming articles, but the basic is ENHANCEMENT-POINT is the empty placeholder for the code where as ENHANCEMENT-SECTION is the placeholder with default code.
- **Implicit Enhancements** – Implicit enhancements are not delivered by SAP in the code, but SAP has given flexibility to implement them at various locations
  - Beginning of the Subroutine/Method/FM/Include
  - End of the subroutine/Method/FM/Include
  - Class Enhancements – Pre/Post/Overwrite method
  - FM Enhancements – Additional Parameters

## Enhancement Implementation

In order to put your code in to any of the enhancement, you would need to create an implementation for that. If you found an explicit point, you can create the implementation for that point. You implement the logic in your implementation. At run time, system determines how many active implementation exist in the system for that point and executes them.

You can navigate from your implementation or open an implementation in the [Enhancement Builder](#). Enhancement Builder is an integrated tool in SE80 to help you with Enhancement implementations.

### Next article

[Enhancement Implementations – Implementing Explicit Enhancement Point](#)

## Table of Content – Enhancement Framework

- [Enhancement Framework – Introduction](#)
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I'm SAP ABAP Consultant for more than a decade. I like to experiment with ABAP especially OO. I have been [SDN Top Contributor](#).

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[Enhancement Framework – Debugging Implementation](#)

Before moving to further into other enhancement implementations in ABAP Enhancement Framework, let me show you how would program be displayed during Debugging. Debug the Implementation Once you have implemented the enhancement implementation, you would be able to see it in action. To be able to debug it: Put a break-point just before the

implementation...

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### [\*\*Enhancement Framework – Explicit Enhancement-SECTION Implementation\*\*](#)

Let's see more on Explicit Enhancement SECTION implementation in ABAP Enhancement Framework with step-by-step guide. ENHANCEMENT-SECTION Enhancement Section has same properties as the Enhancement Point, with "default" code. The SECTION is also a hook available in Std SAP Codes which can be implemented. Section can also be INCLUDE BOUND and STATIC. Refer to for more...

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## 1 Comment



### Bibinghosh Sasidharan

# March 27th, 2014 at 9:36 am

Excellent start ! i was waiting for some of tutorials on Enhancements



Waiting for the next parts

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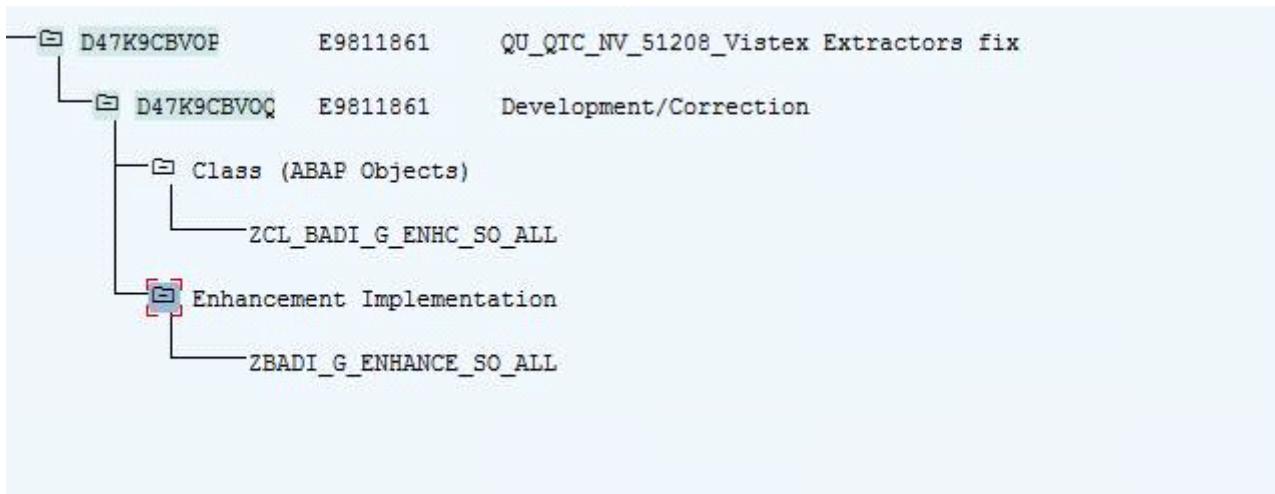
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# Example BADI Vistex I created

Friday, April 3, 2020 8:39 PM



Vistex BW  
Extractors...

- 1) Create implementation class
  - a. Select package Z\_UNITY
- 2) Select interface selected
- 3) Create BADI
  - a. Select package Z\_UNITY
- 4) Create BADI implementation

# Implicit enhancement

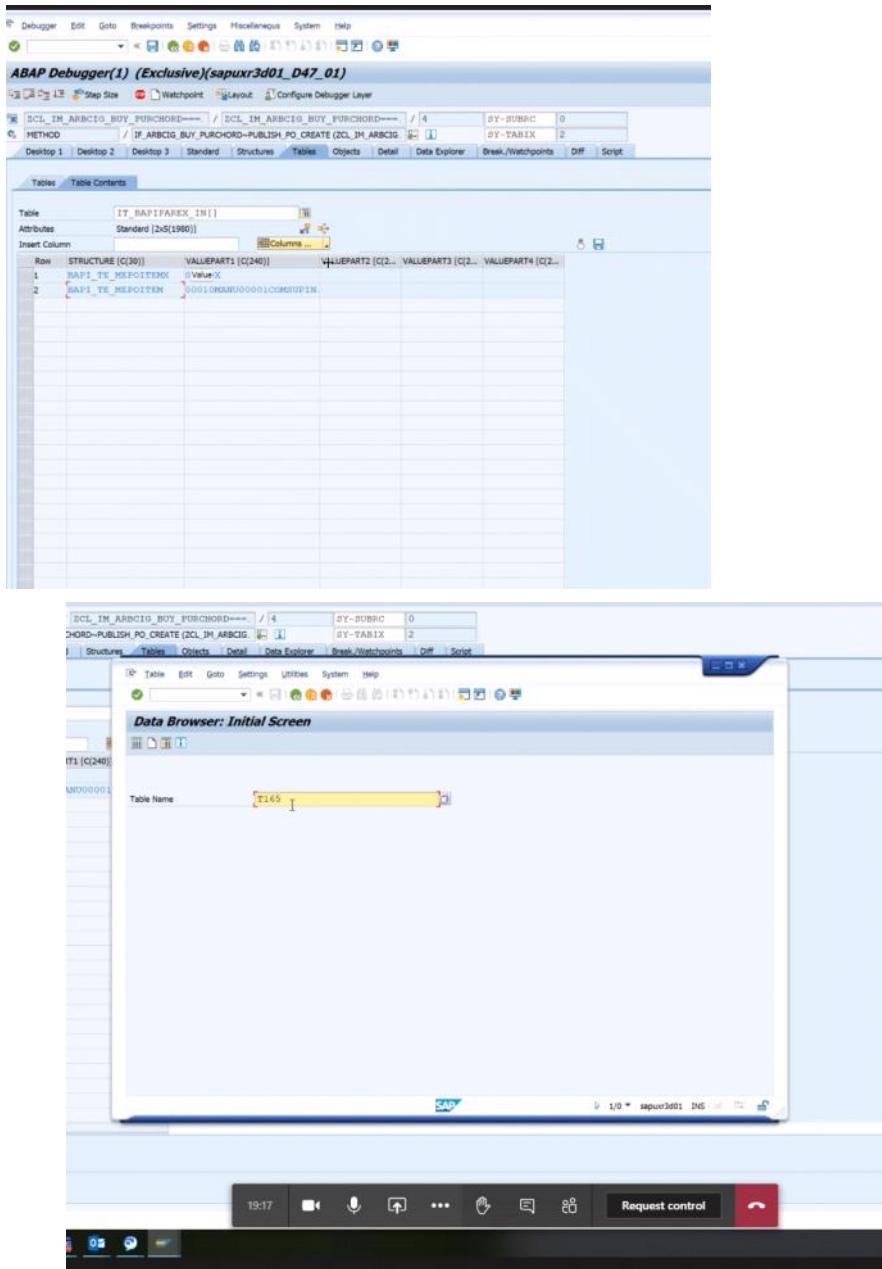
Wednesday, April 22, 2020 1:06 PM

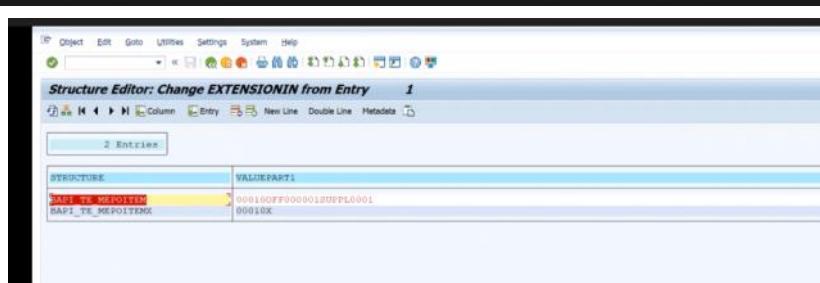
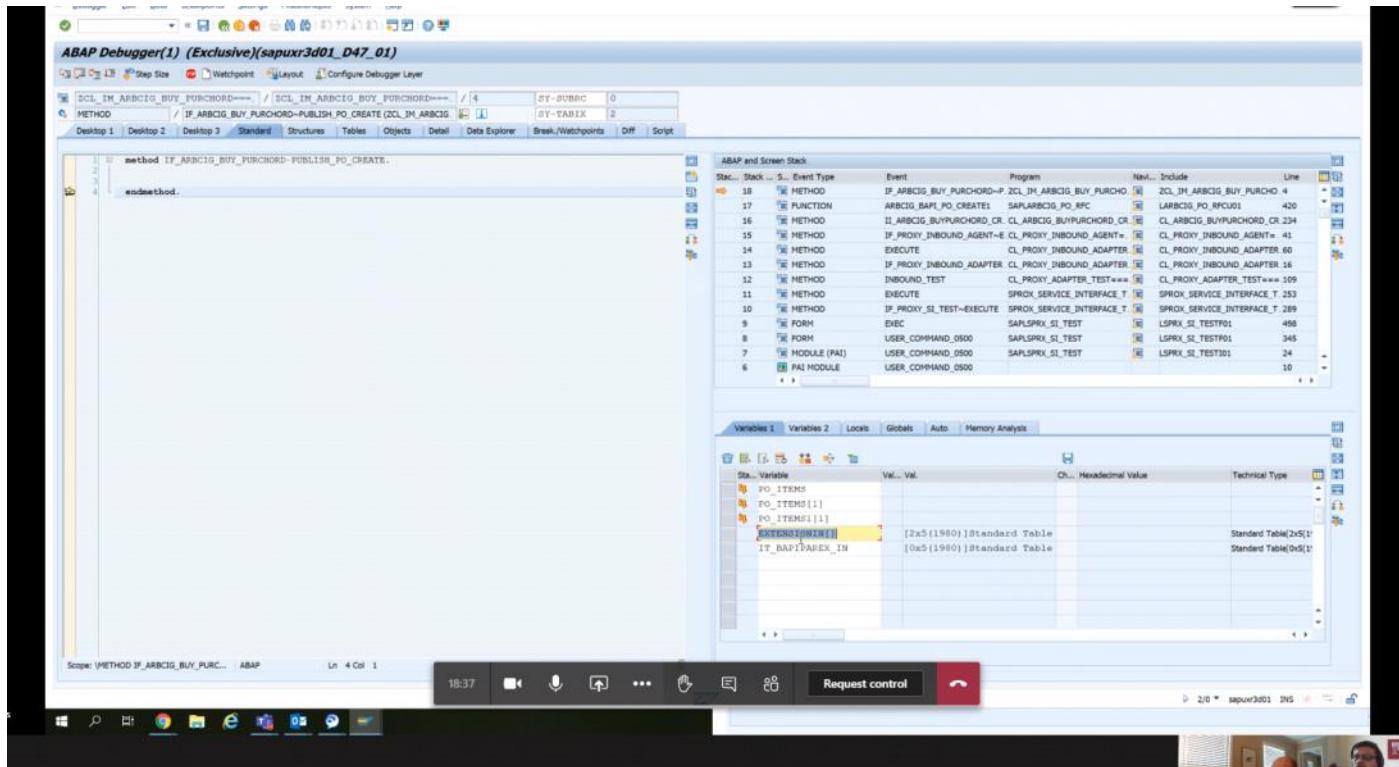
[FSID 2059 v2.0](#)

Implicit enhancement

ARBCIG\_BUY\_PURCHORD\_BADI Encampment spot interface

|                                |                            |                               |                                |
|--------------------------------|----------------------------|-------------------------------|--------------------------------|
| BD_SRA016_USR_TO_CUSTOMER      | Standard BADI interface    | ARBCIG_BUY_PURCHORD_BADI      | ARBCIG_BUY_ORDCHANGE_BADI      |
| ZQTC_BD_SRA016_USR_TO_CUSTOMER | Enhancement Implementation | ZRTC_ARBCIG_BUY_PURCHORD_BADI | ZRTC_ARBCIG_BUY_ORDCHANGE_BADI |
| ZCL_IM_BD_SRA016_USR_TO_CUST   | class                      | ZCL_IM_ARBCIG_BUY_PURCHORD    |                                |





|                  |                         |            |                   |                  |                                                            |        |  |
|------------------|-------------------------|------------|-------------------|------------------|------------------------------------------------------------|--------|--|
| EXTENSIONIN      | ARBCIG_BAPIPREXT        | Table type | ARBCIG_BAPIPREX   | Structure        | ARBCIG_BAPI_PAREX_IN                                       | Active |  |
|                  |                         |            |                   | Attributes       | Ref. structure for BAPI parameter ExtensionIn/ExtensionOut |        |  |
|                  |                         |            |                   | Components       |                                                            |        |  |
|                  |                         |            |                   | Entry help/check |                                                            |        |  |
| POITEM           | ARBCIG_BAPIPOITEM_T     | Table type | ARBCIG_BAPIPOITEM | Structure        | ARBCIG_BAPIPOITEM                                          | Active |  |
|                  |                         |            |                   | Attributes       | Transfer Structure: Bapi PO Create Item                    |        |  |
|                  |                         |            |                   | Components       |                                                            |        |  |
|                  |                         |            |                   | Entry help/check |                                                            |        |  |
| IT_BAPI_PAREX_IN | ARBCIG_IT_BAPIITEMSHIPX | Table type | BAPIPAR           | Structure        | BAPIPAR                                                    | Active |  |
|                  |                         |            |                   | Attributes       |                                                            |        |  |
|                  |                         |            |                   | Components       |                                                            |        |  |
|                  |                         |            |                   | Entry help/check |                                                            |        |  |



## User exit tables

Friday, April 24, 2020 1:03 PM

Zqtcuserexit

ZBASUSEREXIT  
ZEDIUSEREXIT  
ZFIUSEREXIT  
ZPTPUSEREXIT  
ZQTCUSEREXIT  
ZRTCUSEREXIT  
ZTESTRTCUSEREXIT

Repository Info System: Tables Find (7 Hits)

| Table Name       | Short text                            |
|------------------|---------------------------------------|
| ZBASUSEREXIT     | Make Basis User Exits Active/Inactive |
| ZEDIUSEREXIT     | EDI USEREXIT ACTIVATION TABLE.        |
| ZFIUSEREXIT      | FICO Userexit                         |
| ZPTPUSEREXIT     | PTP Userexit                          |
| ZQTCUSEREXIT     | QIC USEREXIT ACTIVATION TABLE.        |
| ZRTCUSEREXIT     | RIC Userexit                          |
| ZTESTRTCUSEREXIT | RIC Userexit                          |

# Useful Transactions in SAP Workflow - ABAP Development - Community Wiki

Thursday, April 9, 2020

## Useful Transactions in SAP Workflow

- [Skip to end of metadata](#)  
– Created by [Chidanand Chauhan](#), last modified by Former Member on [May 23, 2013](#)  
[Go to start of metadata](#)

**Objective:** This wiki will tell you the basic transactions which are being used in the SAP Workflow.

|                 |                                                                    |
|-----------------|--------------------------------------------------------------------|
| OOAW            | Evaluation paths                                                   |
| PFAC            | Create and maintain Rules                                          |
| PFOM            | Maintain assignment to SAP organizational objects                  |
| PFOS            | Display assignment to SAP organizational objects                   |
| PFSO            | Organizational environment of a user                               |
| PFTC            | Create and maintain tasks                                          |
| PPOCW           | Create organizational plan                                         |
| PPOMW           | Maintain organizational plan                                       |
| PPOSW           | Display organizational plan                                        |
| SWDA            | Workflow Builder (Calls the Workflow Builder in alphanumeric mode) |
| SWDD            | Workflow Builder                                                   |
| SWDS            | Workflow Builder (Selection)                                       |
| SWDD_CONFIG     | Workflow configuration                                             |
| SBWP            | The Business Workplace                                             |
| SWDC_DEFINITION | Workflow Builder administration data                               |
| SWDC_RUNTIME    | Workflow runtime administration data                               |
|                 | Extended notifications for business workflow                       |

| SWNCONFIG               |                                                                  |
|-------------------------|------------------------------------------------------------------|
| SWDM                    | Business Workflow Explorer                                       |
| SWEINST                 | Evaluation and maintenance of instance linkages                  |
|                         |                                                                  |
| SWEINSTVC               | Evaluation and maintenance of instance linkages                  |
| SWE2                    | Evaluation and maintenance of type linkages                      |
| SWE3                    | Evaluation and maintenance of instance linkages                  |
| SWE4                    | Switch event trace on/off                                        |
| SWEL                    | Display event trace                                              |
| RSWELOGD                | Delete event trace                                               |
| SWEC                    | Link change documents to events                                  |
| SWED                    | Assign change document objects to object types                   |
| SWEQADM_1               | Event queue administration                                       |
| SWEQBROWSER             | Administration of event queue browser                            |
| SWETYPV                 | Evaluation and maintenance of type linkages                      |
| SWI1                    | Selection report for work items                                  |
| SWI2_FREQ               | Work items per task                                              |
| SWI2_DEAD               | Work items with monitored deadlines                              |
| SWI2_DURA               | Work items by processing duration                                |
| SWI11                   | Tasks in workflows                                               |
| SWI13                   | Task profile                                                     |
| SWI5                    | Workload analysis                                                |
| SWL1                    | Settings for dynamic columns                                     |
| SWLV                    | Maintain work item views                                         |
| SWFVISU                 | Parameters for Work Item Visualization in the UWL                |
| SWO1                    | Business Object Builder                                          |
| SWO6                    | Customizing object types                                         |
| SWR_WEB SERVER          | Customizing Web server                                           |
| SWU_CONT_PERSISTENCE    | Administration of container persistence                          |
| SWU_EWCD                | Wizard for event creation using change documents                 |
| SWU_EWLIS               | Wizard for event creation using the Logistics Information System |
| SWU_BTE                 | Wizard for event creation using Business Transaction Events      |
| SWU0                    | Event simulation                                                 |
| SWU2                    | RFC monitor                                                      |
| SWU3                    | Automatic Workflow Customizing                                   |
| SWU4                    | Consistency check for standard tasks                             |
| SWU5                    | Consistency check for customer tasks                             |
| SWU6                    | Consistency check for workflow tasks                             |
| SWU7                    | Consistency check for workflow templates                         |
| SWU8                    | Switch workflow trace on/off                                     |
| SWU9                    | Display workflow trace                                           |
| SWU10                   | Delete workflow trace                                            |
| <b>Transaction Code</b> | <b>Description</b>                                               |
|                         | Diagnostic tools                                                 |

|                 |                                                                 |
|-----------------|-----------------------------------------------------------------|
| SWUD            |                                                                 |
| SWUE            | Trigger event                                                   |
| SWUI            | Start workflows/tasks                                           |
| SWUS            | Testing workflows/tasks                                         |
| SWXML           | Display XML documents                                           |
| SWUY            | Wizard for linking messages to workflows                        |
| SWWCOND_INSERT  | Schedule background job for work item deadline monitoring       |
| SWWCLEAR_INSERT | Schedule background job for clearing tasks                      |
| RSWWCOND        | Execute single background job for work item deadline monitoring |
| RSWWCLEAR       | Execute work item clearing work once                            |
| WF_HANDCUST     | WebFlow service handler maintenance                             |
| WF_EXTSRV       | Maintain Web Service Repository                                 |
| WFWS            | Import WSDL files                                               |
| SWIA            | WI Administration Report                                        |

Inserted from <<https://wiki.scn.sap.com/wiki/display/ABAP/Useful+Transactions+in+SAP+Workflow>>

# Adobe forms

Wednesday, April 29, 2020 10:57 AM

Transaction : **SFP**

PTP

EX : ZPTPF\_SUPPLIER\_NOTFN\_8D\_REPS

The screenshot shows the SAP Form Builder: Entry Point interface. On the left, there is a toolbar with icons for New, Edit, Goto, Utilities, and others. Below the toolbar, there are two radio buttons: 'Form' (selected) and 'Interface'. The text 'zptpf\*' is entered into a search field. At the bottom are 'Display' and 'Change' buttons. A modal window titled 'Name of Form (1) 5 Entries found' is open, displaying a table with columns 'Name', 'Description', and 'Status'. The table contains five entries, all of which are highlighted in yellow.

| Name                           | Description        | Status |
|--------------------------------|--------------------|--------|
| ZPTPF_SUPPLIER_NOTFN_8D_REPS   | Form for 8D Report | Active |
| ZPTPF_SUPPLIER_NOTFN_8D_REPS_1 | Form for 8D Report | Active |
| ZPTPF_SUPPLIER_NOTFN_8D_REPS1  | Form for 8D Report | Active |
| ZPTPF_SUPPLIER_NOTFN_8D_REPSBK | Form for 8D Report | Active |
| ZPTPF_SUPPLIER_NOTFN_8D_REPSCP | Form for 8D Report | Active |

QTC

The screenshot shows the SAP Form Builder: Entry Point interface. On the left, there is a toolbar with icons for New, Edit, Goto, Utilities, and others. Below the toolbar, there are two radio buttons: 'Form' (selected) and 'Interface'. The text 'zqtcF\*' is entered into a search field. A blue arrow points from the text 'zqtcF\*' to the search field. At the bottom are 'Display' and 'Change' buttons. A modal window titled 'Name of Form (1) 16 Entries found' is open, displaying a table with columns 'Name', 'Description', and 'Status'. The table contains 16 entries, all of which are highlighted in yellow.

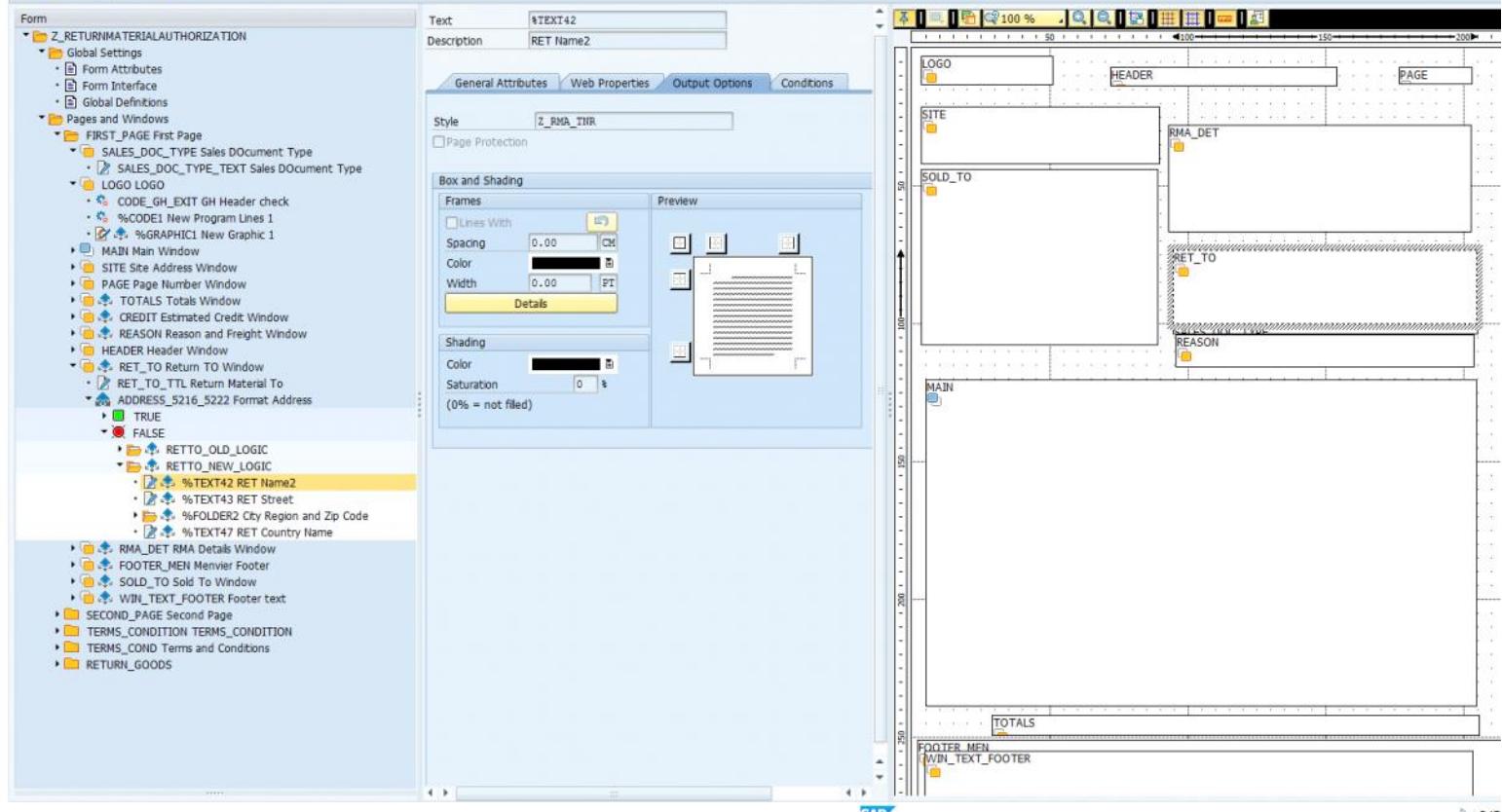
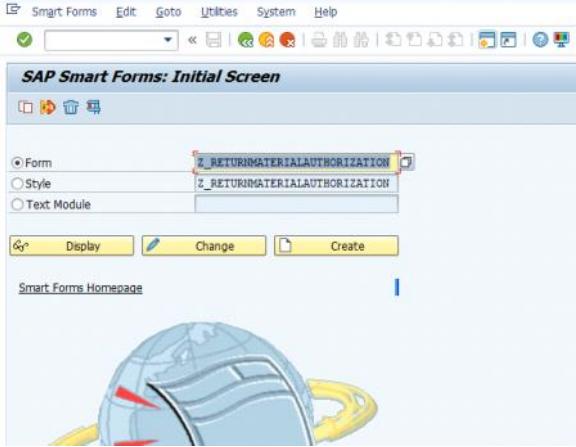
| Name                         | Description                                    | Status |
|------------------------------|------------------------------------------------|--------|
| ZQTCF_ARG_INVOICE            | Argentina Invoice Form                         | Active |
| ZQTCF_ARG_INVOICE_BACKUP     | Argentina Invoice Form                         | Active |
| ZQTCF_ARG_INVOICE_TABLE_SPAN | Argentina Invoice Form                         | Active |
| ZQTCF_ARG_ORDER01            | Argentina Order Confirmation Form              | Active |
| ZQTCF_ARG_REMITO             | Argentina Remito Form                          | Active |
| ZQTCF_ARG_RESH_BKCP          | Argentina Invoice Form                         | Active |
| ZQTCF_ARG_RESH_BKCP1         | Argentina Invoice Form                         | Active |
| ZQTCF_COMMERCIAL_INV         | Output form for Middle East Commercial Invoice | Active |
| ZQTCF_EDO_CO_CREDIT_NOTE     | eDocument Colombia: Invoice printout           | Active |
| ZQTCF_EDO_CO_DEBIT_NOTE      | eDocument Colombia: Invoice printout           | Active |
| ZQTCF_EDO_CO_INVOICE         | eDocument Colombia: Invoice PDF form           | Active |
| ZQTCF_EDO_IT_INVOICE         | eDocument Italy: Invoice printout              | Active |
| ZQTCF_INVOICE_ADOBE_PRINT    | Invoice Print                                  | Active |
| ZQTCF_INVOICEARG             | PQ Argentina Invoice Form                      | Active |
| ZQTCF_ME_DELIVERY_ADVICE     | Middle East Delivery Advice Form               | Active |
| ZQTCF_QUOTEARG               | Argentina Quote Form                           | Active |

## Smart forms

Monday, May 11, 2020 3:26 PM

Transaction : smarforms  
Dependent transaction: smartstyle

|                                   |            |
|-----------------------------------|------------|
| Ex: Z_RETURNMATERIALAUTHORIZATION | Smartform  |
| Z_RETURNMATERIALAUTHORIZATION     | Smartstyle |



SAP Form Builder: Display Text %TEXT42

The screenshot shows two SAP application windows. The top window is 'SAP Form Builder: Display Text %TEXT42'. It displays a tree view of form components under 'Z\_RETURNMATERIALAUTHORIZATION' and a detailed view of a text element named '%TEXT42' with description 'RET Name2'. The bottom window is 'Function Builder: Display /1BCDWB/SF00001903'. It shows the function module details, including the program name '/1BCDWB/SF00001903' circled in blue.

**SAP Form Builder: Display Text %TEXT42**

Form

- Z\_RETURNMATERIALAUTHORIZATION
  - Global Settings
  - Form Attributes
  - Form Interface
  - Global Definitions
  - Pages and Windows
    - FIRST\_PAGE First Page
      - SALES\_DOC\_TYPE Sales Document Type
        - %CODE1 New Program Lines 1
        - %GRAPHIC1 New Graphic 1
    - LOGO LOGO
      - CODE\_GH\_EXIT GH Header check
      - %CODE1 New Program Lines 1
      - %GRAPHIC1 New Graphic 1
    - MAIN Main Window
    - SITE Site Address Window
    - PAGE Page Number Window
    - TOTALS Totals Window
    - CREDIT Estimated Credit Window
    - REASON Reason and Freight Window
    - HEADER Header Window
    - RET\_TO Return TO Window

Text: %TEXT42  
Description: RET Name2

General Attributes Web Properties Output

Style: Z\_RMA\_TIR  
Page Protection

Box and Shading

Frames: Lines With: 0.00 CM  
Spacing: 0.00 CM  
Color: Black  
Width: 0.00 PT

Shading: Color: Black

Information

1BCDWB/SF00001903

Details

Information

TRUE  
FALSE  
RETTO\_OLD\_LOGIC  
RETTO\_NEW\_LOGIC  
%TEXT42 RET Name2  
%TEXT43 RET Street  
%FOLDER City Region and Zip Code  
%TEXT47 RET Country Name

RMA\_DET RMA Details Window  
FOOTER\_MEN Menvier Footer  
SOLD\_TO Sold To Window  
WIN\_TEXT\_FOOTER Footer text

SECOND\_PAGE Second Page

**Function Builder: Display /1BCDWB/SF00001903**

Function module: /1BCDWB/SF00001903 Active

Attributes Import Export Changing Tables Exceptions Source code

Classification

Function Group: /1BCDWB/SF00001903 Smart Form Z\_RETURNMATERIALAUTHOR...  
Short Text: Smart Form Z\_RETURNMATERIALAUTHORIZATION

Processing Type

Normal Function Module (radio button selected)  
Remote-Enabled Module  
Update Module  
Start immed.  
Immediate Start, No Restart  
Start Delayed  
Coll.run

General Data

Person Responsible: C9931868  
Last Changed By: C9931868  
Changed on: 10/01/2019  
Package: /1BCDWB/SAPLSF00001903  
Program Name: /1BCDWB/SAPLSF00001903001  
INCLUDE Name: /1BCDWB/LSF00001903001  
Original Language: Not released  
Edit Lock: Global

Program Edit Goto Utilities Environment System Help

ABAP Editor: Display Function Group /1BCDWB/SAPLSF00001903

Function Group /1BCDWB/SAPLSF00001903 Active

```

1: *-----*
2: * System-defined Include-files. *
3: *-----*
4: INCLUDE /1BCDWB/LSF00001903TOP. " Global Data
5: INCLUDE /1BCDWB/LSF00001903UXX. " Function Modules
6:
7: *-----*
8: * User-defined Include-files (if necessary). *
9: *-----*
10: * INCLUDE /1BCDWB/LSF00001903F... " Subroutines
11: * INCLUDE /1BCDWB/LSF00001903O... " PBO-Modules
12: * INCLUDE /1BCDWB/LSF00001903I... " PAI-Modules
13: * INCLUDE /1BCDWB/LSF00001903E... " Events
14: * INCLUDE /1BCDWB/LSF00001903P... " Local class implement.
15: * INCLUDE /1BCDWB/LSF00001903J... " ABAP Unit tests
16: INCLUDE /1BCDWB/LSF00001903F01
17:

```

Program Edit Goto Utilities Environment System Help

ABAP Editor: Display Include /1BCDWB/LSF00001903F01

Include /1BCDWB/LSF00001903F01 Active

```

564: CLEAR V_GRL_FLG.
565: CLEAR V_FLG_POSNR.
566: CLEAR V_CREDIT_PLANT.
567: CLEAR V_FREIGHT_PLANT.
568: CLEAR V_FREIGHT_PRINTP.
569: CLEAR V_TAB_TOT.
570: CLEAR V_TAB_IDX.
571: CLEAR V_NEW_HEADER.
572: CLEAR V_FLG_REMOVE.
573: CLEAR V_EXECUTE_SPL_INST.
574: CLEAR V_SPL_INST_TEXT.
575:
576: ENDFORM. " #GLOBAL_CLEAR
577:
578: * FORM #GLOBAL_INIT
579:
580:
581:
582: FORM #GLOBAL_INIT.
583: TABLES : konv. "D47K9C13U4+ changes.
584: CONSTANTS: c_comma TYPE c VALUE ','." "D47K9CBBDA+
585: data: w_execute(1) type c,
586: lv_wildcard TYPE ZQTCUSEREXIT-WILDCARD, "D47K9CBBDA+
587: v_zrbx_desc LIKE t685t-vtext, "D47K9C13U4+ changes.
588: w_value like zqtcuserexit-description.
589: DATA: LV_PROG TYPE ZQTCUSEREXIT-PROGRAMM VALUE 'ZQTC_RMA_DOC_TYPE' .
590: *Begin of Insert D47K9CBBNO
591: DATA: lv_zqtc_rma_label_desc TYPE zqtcuserexit-description,
592: lv_no_days_expiry TYPE char2.
593: CONSTANTS: lc_0 TYPE c VALUE '0'.
594: CLEAR: lv_zqtc_rma_label_desc,lv_no_days_expiry.
595: *End of Insert D47K9CBBNO
596: ->Get the footer text for the RMA
597: call function 'ZUSEREXIT_QTC'
598: exporting
599: zprogramm = 'ZRET_FOOTER_TEXT'
600: zvkorg = 'return_mat_authorz-vkorg'
601: zvtweg = 'space'
602: zwildcard = space
603: importing
604: value = w_value
605: changing
606: execute = w_execute.
607: if w_execute = 'X'.
608: w_footer_text = w_value.
609: endif.
610: call function 'ZUSEREXIT_QTC'
611:

```

Find dialog box:

|                                                                                                                                 |                                                                                                                                                                           |           |
|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| Find what:                                                                                                                      | <input type="text" value="W_RETURN_MAT_AUTHORZ"/>                                                                                                                         | Find Next |
| Options                                                                                                                         | <input type="checkbox"/> Match Whole Word<br><input type="checkbox"/> Match Case<br><input type="checkbox"/> Regular Expression                                           |           |
| Search                                                                                                                          | <input type="checkbox"/> Search Up<br><input type="checkbox"/> Search Hidden Text<br><input type="checkbox"/> Incremental Search<br><input type="checkbox"/> In Selection |           |
| <input type="button" value="Replace..."/><br><input type="button" value="Select All"/><br><input type="button" value="Cancel"/> |                                                                                                                                                                           |           |

# smartform - ZCANADA\_CUSTOMS\_INVOICE

Monday, May 11, 2020 3:39 PM

**SAP Form Builder: Display Program Lines SO10\_BOX1**

Form      Program Lines: SO10\_BOX1      Description: Get SO10 text for Box 1

General Attributes      Conditions

| Input Parameters |  | Output Parameters |  |
|------------------|--|-------------------|--|
| T001W            |  | V_EXEC            |  |
| V_VKORG          |  | I_TLINE           |  |
| V_VTWIV          |  | V_LINE1           |  |

```

1 DATA: lv_name TYPE tname.
2
3 CLEAR: v_exec, v_prog, v_desc, v_line1, v_line2, v_line3,
4 v_line4.
5 REFRESH: i_tline.
6
7 CONCATENATE 'ZCIN_BOX1_ ' t001w-works INTO v_prog.
8
9 CALL FUNCTION 'ZUSEREXIT_QTC'
10 EXPORTING
11 zprogramm = v_prog
12 zkorg = v_vkorg
13 zvtweg = v_vtwiv
14 zwildcard = space
15 IMPORTING
16 value = v_desc
17 CHANGING
18 execute = v_exec.
19
20 IF v_exec EQ 'X'.
21 lv_name = v_desc.
22
23 CALL FUNCTION 'READ_TEXT'
24 EXPORTING
25 client = sy-mandt
26 id = 'ST'
27 language = 'E'
28 name = lv_name
29 object = 'TEXT'
30 TABLES
31 lines = i_tline
32 EXCEPTIONS
33 id = 1
34 language = 2

```

ABAP      Ln 7 Col 34      NUM

Form Tree:

- ZCANADA\_CUSTOMS\_INVOICE
  - Global Settings
    - Form Attributes
    - Form Interface
    - Global Definitions
  - Pages and Windows
    - PAGE1 Page1
      - LOGO Logo
      - HEADER Header Window
      - VENDOR\_ADDRESS Vendor (Name and Address)
        - SO10\_BOX1 Get SO10 text for Box 1
        - SO10\_BOX1 Get SO10 text for Box 1
          - ADDRESS\_TXT1 Address Text
          - BOX1\_LINE1 Line1
          - BOX1\_LINE2 Line2
          - BOX1\_LINE3 Line3
          - BOX1\_LINE4 Line4
        - ADDRESS Address
          - ADDRESS\_TXT Address Text
          - NAME2 Vendor Name 2
          - STREET Vendor Street
          - CITY City
          - REGION Region
          - ZIPCODE ZipCode
          - LAND Country
          - %TEXT31 New Text 31
          - GET\_PHONE\_EMAIL New Program Lines 5
          - PHONE Phone
          - FAX Fax number
          - EMAIL Email
        - DATE\_OTHER\_REF Date and Other References
        - CONSIGNEE Consignee Name and Address
        - PURCHASERS\_NAME Purchasers Address
        - TRANSPORTATION Transportation
        - PAYMENT\_TERMS Sales and terms of Payments
        - MAIN Main Window
        - FOOTER Footer
        - FOOTER1 Footer1
        - FOOTER2 Footer2
        - EXPORTER Exporters name and address
        - ORIGINATOR Originator
        - DEPMT\_RULE\_LINE Department Ruling
        - AMOUNT Amount
      - PAGE2 Next Page

**Data Browser: Table ZQTCUSEREXIT: Selection Screen**

Number of Entries

|             |       |    |  |  |
|-------------|-------|----|--|--|
| PROGRAMM    | ZCIN* | to |  |  |
| VKORG       |       | to |  |  |
| VTWEG       |       | to |  |  |
| WILDCARD    |       | to |  |  |
| DESCRIPTION |       | to |  |  |
| PARAM2      |       | to |  |  |
| PARAM3      |       | to |  |  |
| PARAM4      |       | to |  |  |
| PARAM5      |       | to |  |  |
| PARAM6      |       | to |  |  |

Width of Output List  Maximum No. of Hits

**Data Browser: Table ZQTCUSEREXIT Select Entries 13**

Check Table...

Table: ZQTCUSEREXIT  
Displayed Fields: 5 of 11 Fixed Columns: 5 List Width 0250

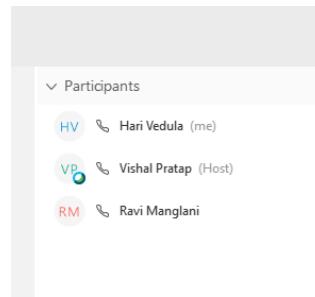
| MANDT | PROGRAMM              | VKORG | VTWEG | WILDCARD |
|-------|-----------------------|-------|-------|----------|
| 200   | ZCIN_BOX19_4650       | 4615  | 30    |          |
| 200   | ZCIN_BOX19_4660       | 4616  | 30    |          |
| 200   | ZCIN_BOX19_4661       | 4616  | 30    |          |
| 200   | ZCIN_BOX19_4662       | 4616  | 30    |          |
| 200   | ZCIN_BOX1_4650        | 4615  | 30    |          |
| 200   | ZCIN_BOX1_4660        | 4616  | 30    |          |
| 200   | ZCIN_BOX1_4661        | 4616  | 30    |          |
| 200   | ZCIN_BOX1_4662        | 4616  | 30    |          |
| 200   | ZCIN_CO_COMMODITYCODE | 1001  |       |          |
| 200   | ZCIN_CO_COMMODITYCODE | 1006  |       |          |
| 200   | ZCIN_CO_COMMODITYCODE | 1023  |       |          |
| 200   | ZCIN_CO_COMMODITYCODE | 1027  |       |          |
| 200   | ZCIN_CO_COMMODITYCODE | 1052  |       |          |

# Ignio Project

Wednesday, April 22, 2020 11:18 AM

digitate ignio  
spring 1 2 3

Omkar  
Anu  
project number?



Spring 1

**Ignio use cases from all Sprints - Microsoft Excel**

| Sr. No. | Sprint 1 Use Cases                         | Usecase Type | Release for UAT     | Notes                                                                                                                                                 |
|---------|--------------------------------------------|--------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2       | Create Product Hierarchy                   | OOB          | 1-Apr               |                                                                                                                                                       |
| 3       | Create Commodity Code                      | OOB          | 3-Apr               |                                                                                                                                                       |
| 4       | Create Accounting Clerk                    | OOB          | 3-Apr               |                                                                                                                                                       |
| 5       | Change Accounting Clerk                    | OOB          | 3-Apr               |                                                                                                                                                       |
| 6       | Create Sales Group                         | OOB          | 6-Apr               |                                                                                                                                                       |
| 7       | Assign Sales Group to Sales Office         | OOB          | 6-Apr               |                                                                                                                                                       |
| 8       | Create Cost Center                         | OOB          | 8-Apr               |                                                                                                                                                       |
| 9       | Change Cost Center                         | OOB          | 8-Apr               |                                                                                                                                                       |
| 10      | Create/Change trading partner              | OOB          | 15-Apr              | This Sprint2 use case was swapped with Storage Location                                                                                               |
| 11      | Create/Change trading partner              | OOB          | 15-Apr              | This Sprint2 use case was swapped with Storage Location                                                                                               |
| 12      | Factory Calendar                           | Custom       | 13-Apr              |                                                                                                                                                       |
| 14      | <b>Moved from Sprint1 to next Sprint2:</b> |              |                     |                                                                                                                                                       |
| 15      | Usecases moved from Sprint1 to Sprint2     | Usecase Type | Release for UAT     | Notes                                                                                                                                                 |
| 16      | Change Product Hierarchy                   | OOB          | Part of Sprint2 UAT | Multilanguage feature to be ready for this use case by 30-Apr. Hence it moved to next Sprint2.                                                        |
| 17      | Change Commodity Code                      | OOB          | Part of Sprint2 UAT | Multilanguage feature to be ready for this use case by 30-Apr. Hence it moved to next Sprint2.                                                        |
| 18      | Change Sales Group                         | OOB          | Part of Sprint2 UAT | Multilanguage feature to be ready for this use case by 30-Apr. Hence it moved to next Sprint2.                                                        |
| 19      | Create Lab Office                          | OOB          | Part of Sprint2 UAT | Multilanguage feature to be ready for this use case by 30-Apr. Hence it moved to next sprint2 and got swapped with Accounting clerk use case.         |
| 20      | Change Lab Office                          | OOB          | Part of Sprint2 UAT | Multilanguage feature to be ready for this use case by 30-Apr. Hence it moved to next sprint2 and got swapped with Accounting clerk use case.         |
| 21      | Create Storage Location                    | OOB          | Part of Sprint2 UAT | This use case is available at Ignio.                                                                                                                  |
| 22      | Change Storage Location                    | OOB          | Part of Sprint2 UAT | This use case is available at Ignio.                                                                                                                  |
| 23      | Change Storage Location Address            | OOB          | New Development     | Maintain or Create Storage Location Address** use case is not handled at Ignio. Hence this entire use case got swapped with Trading Partner use case. |

Spring 2

**Gantt Chart Tools Project\_Plan\_MPP\_22Apr20\_AddResource - Project Professional**

Manglani, Ravi

File Task Resource Report Project View Help Format

Calibri 9 Mark on Track Respect Links Inactivate Manually Schedule Auto Schedule Move Mode Summary Milestone Deliverable Information Planner Scroll to Task

WBS Task Name % Work Completeness Start Finish Duration Pre Work Resources Names Completeness Add New

March 2020 11 16 21 26 7 12 17

**Gantt Chart Tools** Project\_Plan\_MPP\_22Apr20\_AddResource - Project Professional Manglani, Ravi

**File Task Resource Report Project View Help Format**

**Schedule Tasks Insert Properties Link To Editing**

**Manually Schedule Auto Schedule Task Milestone Deliverable**

**Information Planner Scroll to Task**

**WBS Task Name % Work Complet Start Finish Duration Prev Work Resource % Complet Add N**

| 151 | 00     | SPRINT2                                  | 4%  | Mon 3/30/20 | Thu 6/18/20 | 59 days? | 2,628 hrs             | 14%                  |     |
|-----|--------|------------------------------------------|-----|-------------|-------------|----------|-----------------------|----------------------|-----|
| 152 | 15.1   | Phase 1 Project Initiation               | 10% | Mon 3/30/20 | Wed 4/1/20  | 3 days?  | 150                   | 24 hrs Digitate / E. | 99% |
| 160 | 15.2   | Phase 2 Definition Phase                 | 43% | Mon 3/30/20 | Fri 4/10/20 | 10 days? | 152                   | 248 hrs Eaton        | 55% |
| 182 | 15.3   | Phase 3 Development Phase                | 0%  | Fri 4/17/20 | Fri 6/5/20  | 36 days? | 160                   | 1,556 hrs Digitate   | 0%  |
| 183 | 15.3.1 | Design - Solution document               | 0%  | Fri 4/17/20 | Wed 5/6/20  | 14 days  | 160,176               | 112 hrs Digitate     | 0%  |
| 184 | 15.3.2 | Design - Document Review Activity        | 0%  | Thu 5/7/20  | Fri 5/15/20 | 7 days   | 183                   | 56 hrs Eaton         | 0%  |
| 185 | 15.3.3 | Set 1 - Build and Unit Test              | 0%  | Mon 5/4/20  | Tue 5/12/20 | 7 days?  | 184                   | 128 hrs Digitate     | 0%  |
| 192 | 15.3.4 | Set 2 - Build and Unit Test              | 0%  | Fri 4/17/20 | Tue 5/19/20 | 23 days  | 436 hrs Digitate / E. | 0%                   |     |
| 202 | 15.3.5 | Set 3 - Build and Unit Test              | 0%  | Tue 5/12/20 | Tue 6/2/20  | 16 days  | 464 hrs Digitate / E. | 0%                   |     |
| 211 | 15.3.6 | SAP usecase configuration in Ignio (UAT) | 0%  | Wed 6/3/20  | Fri 6/5/20  | 3 days   | 24 hrs Dhiraj         | 0%                   |     |
| 212 | 15.3.7 | Project Control                          | 0%  | Thu 6/4/20  | Fri 6/5/20  | 2 days   | 48 hrs Ravi           | 0%                   |     |
| 217 | 15.4   | Phase 4 Validation                       | 0%  | Wed 5/6/20  | Fri 6/12/20 | 28 days? | 185                   | 704 hrs Eaton        | 0%  |
| 218 | 15.4.1 | Set 1 - UAT and Validation               | 0%  | Wed 5/6/20  | Tue 5/12/20 | 5 days   | 80 hrs Eaton          | 0%                   |     |
| 224 | 15.4.2 | Set 2 - UAT and Validation               | 0%  | Mon 5/11/20 | Fri 5/22/20 | 10 days  | 168 hrs Eaton         | 0%                   |     |
| 232 | 15.4.3 | Set 3 - UAT and Validation               | 0%  | Mon 5/18/20 | Fri 6/5/20  | 15 days  | 196 hrs Eaton         | 0%                   |     |
| 238 | 15.4.4 | UAT Bug fix and Resolution               | 0%  | Fri 6/5/20  | Thu 6/11/20 | 5 days   | 20 hrs Digitate       | 0%                   |     |
| 239 | 15.4.5 | Project Control                          | 0%  | Wed 6/10/20 | Thu 6/11/20 | 2 days   | 16 hrs Ravi           | 0%                   |     |
| 244 | 15.5   | Phase 5 Production                       | 0%  | Fri 6/12/20 | Thu 6/18/20 | 5 days   | 217                   | 96 hrs Digitate      | 0%  |
| 254 | 00     | SPRINT3                                  | 0%  | Fri 5/1/20  | Mon 8/10/20 | 72 days? | 2,792 hrs             | 0%                   |     |
| 255 | 16.1   | Phase 1 Project Initiation               | 0%  | Fri 5/1/20  | Mon 5/4/20  | 2 days?  | 150                   | 32 hrs Digitate / E. | 0%  |

Ready New Tasks : Manually Scheduled

Windows taskbar: File Explorer, Edge, Mail, Photos, OneDrive, Power BI, Word, Excel, Google Chrome, Ignio, Task View, Taskbar settings.

System tray: Volume, Network, Battery, Date/Time (9:25 PM, 4/22/2020).

Ignio use cases from all Sprints - Microsoft Excel

| Sr. No.                            | Use Case Description                                    | Resource     | Build Start | Build Finish | Duration | Excel Prepared by | FS Ready (Y/N)? | FS Reviewed (Y/N)? | Development % Complete | Unit Testing % Complete |
|------------------------------------|---------------------------------------------------------|--------------|-------------|--------------|----------|-------------------|-----------------|--------------------|------------------------|-------------------------|
| 1                                  | SPRINT2 Use Case                                        |              |             |              |          | Akshay            |                 |                    |                        |                         |
| <b>Set 1 - Build and Unit Test</b> |                                                         |              |             |              |          |                   |                 |                    |                        |                         |
| 3                                  | 1 Excel Development                                     | Akshay       | Fri 4/17/20 | Mon 5/11/20  | 17 days? |                   |                 |                    |                        |                         |
| 4                                  | 2 Custom: Alternate G/L account creation and assignment | Dhiraj       | Fri 4/17/20 | Fri 4/24/20  | 6 days   |                   |                 |                    |                        |                         |
| 5                                  | 3 Custom: MRP controller - Create and Change            | Rahul V      | Tue 4/21/20 | Mon 4/27/20  | 5 days   |                   |                 |                    |                        |                         |
| 6                                  | 4 Custom: PTS Records                                   | Dhiraj       | Mon 4/27/20 | Thu 4/30/20  | 4 days   |                   |                 |                    |                        |                         |
| 7                                  | 5 Custom: Tranding Partner - Change                     | Dhiraj       | Mon 5/4/20  | Mon 5/11/20  | 6 days   |                   |                 |                    |                        |                         |
| 8                                  | 6 Product Hierarchy - Change                            | Neel / Ankur | Mon 5/4/20  | Mon 5/4/20   | 1 day    |                   |                 |                    |                        |                         |
| 9                                  | 7 Commodity Code - Change                               | Neel / Ankur | Tue 5/5/20  | Tue 5/5/20   | 1 day    |                   |                 |                    |                        |                         |
| 10                                 | 8 Special Procurement key setup                         | Neel / Ankur | Tue 5/5/20  | Wed 5/6/20   | 2 days   |                   |                 |                    |                        |                         |
| 11                                 | 9 Sales Group - Change                                  | Neel / Ankur | Wed 5/6/20  | Thu 5/7/20   | 2 days   |                   |                 |                    |                        |                         |
| 12                                 | 10 Lab Office - Create and Change                       | Neel / Ankur | Thu 5/7/20  | Fri 5/8/20   | 2 days   |                   |                 |                    |                        |                         |
| <b>Set 2 - Build and Unit Test</b> |                                                         |              |             |              |          |                   |                 |                    |                        |                         |
| 14                                 | 11 Excel Development                                    | Akshay       | Mon 5/11/20 | Fri 5/15/20  | 5 days   |                   |                 |                    |                        |                         |
| 15                                 | 12 Material Group - Create                              | Neel / Ankur | Mon 5/11/20 | Wed 5/13/20  | 3 days   |                   |                 |                    |                        |                         |
| 16                                 | 13 Purchasing Group - Create and Change                 | Neel / Ankur | Thu 5/14/20 | Tue 5/19/20  | 4 days   |                   |                 |                    |                        |                         |
| 17                                 | 14 Payment Term - Create and Change                     | Neel / Ankur | Fri 5/8/20  | Wed 5/13/20  | 4 days   |                   |                 |                    |                        |                         |
| 18                                 | 15 Custom: Production Scheduler - Create and Change     | Rahul V      | Tue 4/28/20 | Tue 5/12/20  | 11 days  |                   |                 |                    |                        |                         |
| <b>Set 3 - Build and Unit Test</b> |                                                         |              |             |              |          |                   |                 |                    |                        |                         |
| 20                                 | 16 Excel Development                                    | Akshay       | Mon 5/18/20 | Thu 5/21/20  | 4 days   |                   |                 |                    |                        |                         |
| 21                                 | 17 Storage Location - Create and Change                 | Neel / Ankur | Wed 5/20/20 | Thu 5/21/20  | 2 days   |                   |                 |                    |                        |                         |
| 22                                 | 18 Custom: Storage Location Address - Create and Change | Rahul V      | Wed 5/13/20 | Mon 5/18/20  | 4 days   |                   |                 |                    |                        |                         |
| 23                                 | 19 Custom: MRP Group - Create and Change                | Dhiraj       | Tue 5/12/20 | Tue 5/26/20  | 11 days  |                   |                 |                    |                        |                         |
| 24                                 |                                                         |              |             |              |          |                   |                 |                    |                        |                         |

Spring 3

Viewing Ravi Manghani's scr...

Ignio use cases from all Sprints - Microsoft Excel

The screenshot shows a Microsoft Excel spreadsheet titled "Viewing Ravi Manghani's scr...". The window title is "Ignio use cases from all Sprints - Microsoft Excel". The ribbon tabs include File, Home, Insert, Page Layout, Formulas, Data, Review, View, and Developer. The Home tab is selected.

The spreadsheet contains data for 15 rows, starting from row 12. Column A is labeled "Sr. No." and "SPRINT3 Use Case". Column B contains descriptions of use cases, such as "Custom: F110 Setup", "Custom: Material Price Group - Create and Change", etc. Column C is labeled "Resource". Columns D through K represent dates and progress metrics:

- D**: Build Start (e.g., Tue 5/19/20)
- E**: Build Finish (e.g., Tue 6/9/20)
- F**: Duration (e.g., 16 days?)
- G**: Excel Prepared (checkbox)
- H**: Ready (checkbox)
- I**: Reviewed (checkbox)
- J**: Developed % (e.g., 0%)
- K**: Testing % (e.g., 0%)

The status bar at the bottom shows "Ready", the taskbar has multiple tabs including "List of use cases - Modified", "Sprint1 use-cases-Modified", "Sprint2 use cases ans status", "Sprint3 use cases and status" (which is active), "Sprint2 use-cases-Modified", and "Sprint3 use-cases-Modified". The system tray shows the date and time as "9:15 PM 4/22/2020".

| Sr. No. | SPRINT3 Use Case                                    | Resource | Build Start | Build Finish | Duration | Excel Prepared | Ready | Reviewed | Developed % | Testing % |
|---------|-----------------------------------------------------|----------|-------------|--------------|----------|----------------|-------|----------|-------------|-----------|
| 1       | SPRINT3 Use Case                                    |          | Tue 5/19/20 | Tue 6/9/20   | 16 days? |                |       |          |             |           |
| 2       | Set 1 - Build and Unit Test                         |          |             |              |          |                |       |          |             |           |
| 3       | 1 Custom: F110 Setup                                |          | Tue 5/19/20 | Tue 5/26/20  | 6 days   |                |       |          |             |           |
| 4       | 2 Custom: Material Price Group - Create and Change  |          | Wed 5/27/20 | Thu 6/4/20   | 7 days   |                |       |          |             |           |
| 5       | 3 Custom: Printer Setup                             |          | Wed 6/3/20  | Tue 6/9/20   | 5 days   |                |       |          |             |           |
| 6       | Set 2 - Build and Unit Test                         |          | Wed 6/10/20 | Wed 6/24/20  | 11 days? |                |       |          |             |           |
| 7       | 4 Custom: Version                                   |          | Wed 6/10/20 | Mon 6/15/20  | 4 days   |                |       |          |             |           |
| 8       | 5 Custom: Tax Code - Create and Change              |          | Tue 6/16/20 | Wed 6/24/20  | 7 days   |                |       |          |             |           |
| 9       | 6 Custom: Create route                              |          | Fri 6/5/20  | Wed 6/10/20  | 4 days   |                |       |          |             |           |
| 10      | 7 Custom: Maintain route determination for Delivery |          | Thu 6/11/20 | Wed 6/17/20  | 5 days   |                |       |          |             |           |
| 11      | Set 3 - Build and Unit Test                         |          | Thu 6/18/20 | Mon 7/27/20  | 28 days? |                |       |          |             |           |
| 12      | 8 Custom: HS Code                                   |          | Thu 6/25/20 | Thu 7/2/20   | 6 days   |                |       |          |             |           |
| 13      | 9 Custom: FSV Update                                |          | Fri 7/3/20  | Fri 7/10/20  | 6 days   |                |       |          |             |           |
| 14      | 10 Custom: Factory Calendar - Create and Change     |          | Mon 7/13/20 | Mon 7/20/20  | 6 days   |                |       |          |             |           |
| 15      | 11 Custom: User Group Creation - Create and Display |          | Thu 6/18/20 | Tue 6/30/20  | 9 days   |                |       |          |             |           |
| 16      |                                                     |          |             |              |          |                |       |          |             |           |
| 17      |                                                     |          |             |              |          |                |       |          |             |           |
| 18      |                                                     |          |             |              |          |                |       |          |             |           |
| 19      |                                                     |          |             |              |          |                |       |          |             |           |
| 20      |                                                     |          |             |              |          |                |       |          |             |           |
| 21      |                                                     |          |             |              |          |                |       |          |             |           |
| 22      |                                                     |          |             |              |          |                |       |          |             |           |

# FW: [EXTERNAL] FW: Ignio Project - SPRINT3- SOP-FICO-F110 Setup - Unity SAP Support

Monday, May 11, 2020 8:46 AM

|             |                                                                                                                 |
|-------------|-----------------------------------------------------------------------------------------------------------------|
| Subject     | <b>FW: [EXTERNAL] FW: Ignio Project - SPRINT3- SOP-FICO-F110 Setup - Unity SAP Support</b>                      |
| From        | <a href="#">Goel, Ribha</a>                                                                                     |
| To          | Vedula, Hari                                                                                                    |
| Sent        | Monday, May 11, 2020 8:42 AM                                                                                    |
| Attachments | <br>SOP-FICO-F<br>110 Setup... |

Thanks & Regards

**Ribha Goel**

SAP ABAP Consultant

**ADQS CoE Development**

From TCS for Eaton's Electrical Sector

Tata Consultancy Services Limited

B 5, Block B, Industrial Area, Sector 62,

Noida, Uttar Pradesh 201301

Mobile: : +91-9711763497

[ribhagoel@eaton.com](mailto:ribhagoel@eaton.com)

**From:** Barapatre Dhiraj [<mailto:barapatre.dhiraj@digitate.com>]

**Sent:** Tuesday, May 5, 2020 6:02 PM

**To:** Goel, Ribha

**Cc:** Pratap, Vishal; Manglani, Ravi; Patil, Omkar K

**Subject:** [EXTERNAL] FW: Ignio Project - SPRINT3- SOP-FICO-F110 Setup - Unity SAP Support

Dear Ribha,

Kindly start this F110 development. Effort estimation for this development is around 5 days but please check your availability and based on it please provide us the delivery date.

As discussed, please create one task for "Sprint 3" and use this task for your this development.

|            |          |                                        |
|------------|----------|----------------------------------------|
| D47K9CBW3W | C9937918 | CA_ALL_DB-51602-DNT: Ignio Development |
| D47K9CBW3X | C9937918 | Development/Correction                 |
| D47K9CBWDS | C9937918 | Development/Correction                 |
| D47K9CBWMF | E0506898 | Development/Correction                 |

Best Regards,

Dhiraj Barapatre.

**From:** Manglani, Ravi [<mailto:RaviManglani@Eaton.com>]  
**Sent:** 05 May 2020 17:24  
**To:** Barapatre Dhiraj <[barapatre.dhiraj@digitate.com](mailto:barapatre.dhiraj@digitate.com)>  
**Subject:** FW: Ignio Project - SPRINT3- SOP-FICO-F110 Setup - Unity SAP Support

**Best Regards,**  
Ravi Manglani

Manager – Ignio Implementation  
From TCS for Eaton  
Pune, India 411057  
Cell: +91 88063 77093  
Email: [ravimanglani@eaton.com](mailto:ravimanglani@eaton.com)

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**From:** Garje, Ashwini V  
**Sent:** Thursday, April 30, 2020 11:01 AM  
**To:** Patil, Omkar K  
**Cc:** Kaneria, Gaurav; Kulkarni, Sandip R; Manglani, Ravi  
**Subject:** Ignio Project - SPRINT3- SOP-FICO-F110 Setup - Unity SAP Support

Hi Omkar,

Find attach SOP-FICO-F110 Setup - Unity SAP Support.

Thanks & Regards

**Ashwini Garje**  
Sr. Analyst IT, FICO-SAP Support APAC  
Eaton Technologies Private limited  
Cluster C, 3rd Floor, EON IT Park,  
Kharadi, Pune, MH 411014

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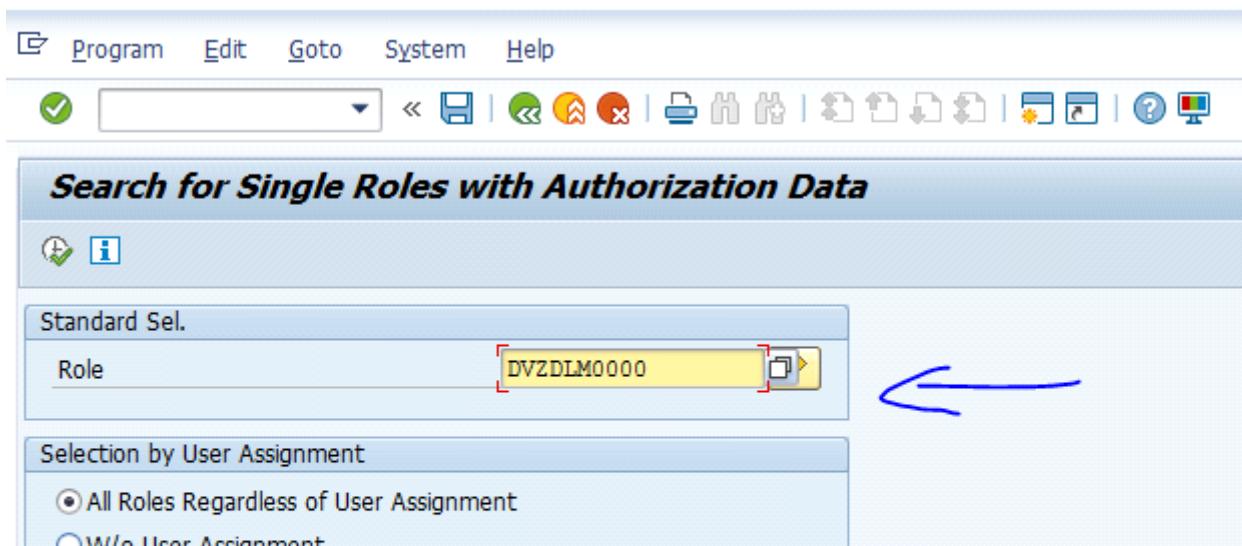
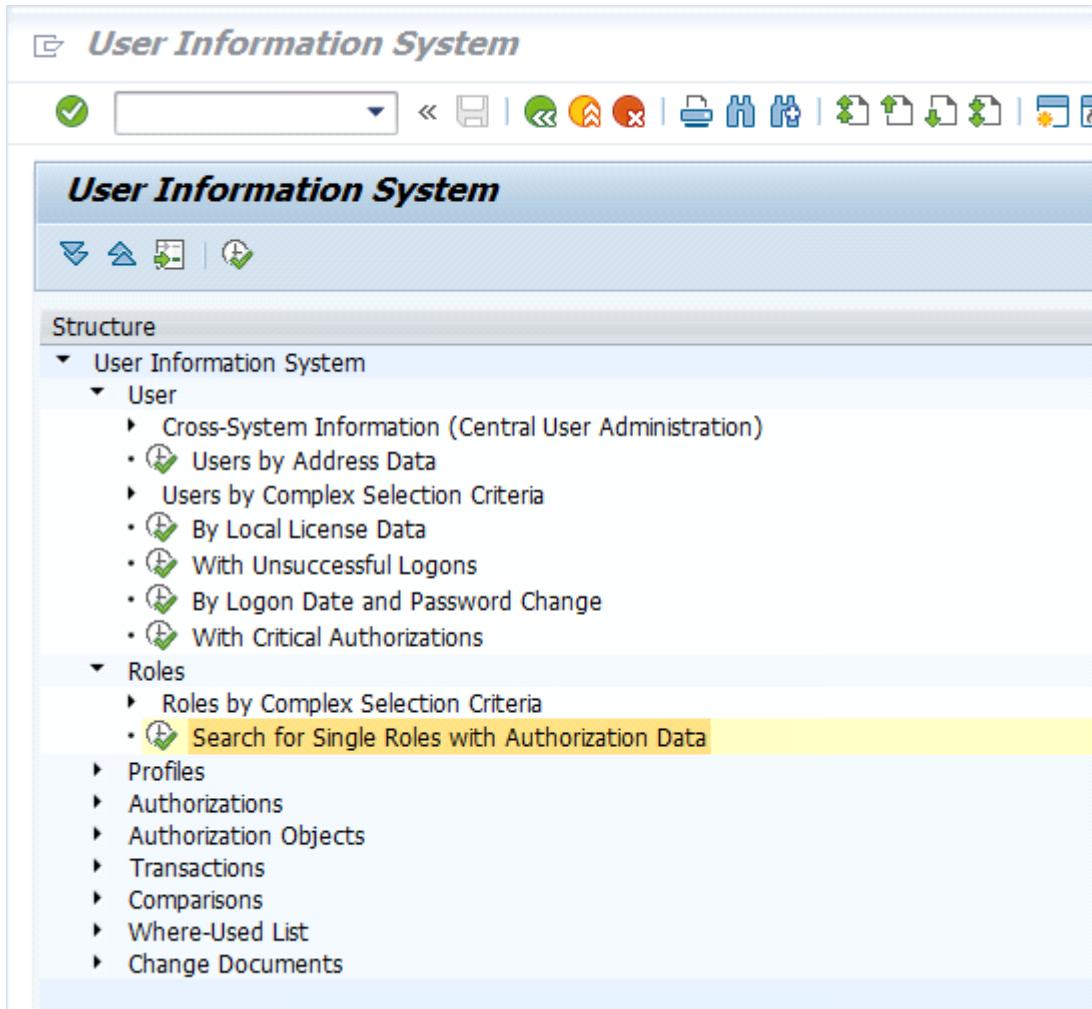
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and any attachments. Thank you

# How to display role

Wednesday, May 20, 2020 8:06 AM

Transaction SUIM



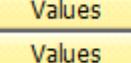
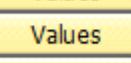
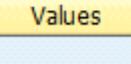
**Selection by User Assignment**

All Roles Regardless of User Assignment  
 W/o User Assignment  
 With Valid Assignment Of  
User(s)  

**Selection by Maintenance Status**

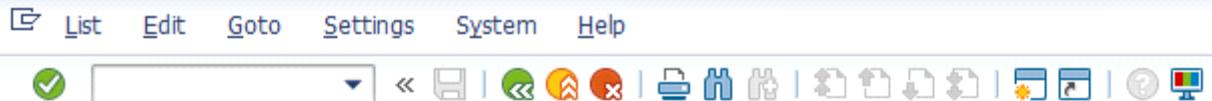
Active/Inactive Authorizations   
 Maintenance Status for Authorizations   
 Maintenance Status for Auth. Fields 

**Selection by Authorization Values**

|                                                                                   |                      |                      |                                                                                   |
|-----------------------------------------------------------------------------------|----------------------|----------------------|-----------------------------------------------------------------------------------|
|  | Authorization Object | <input type="text"/> |  |
|  | Authorization Object | <input type="text"/> |  |
|  | Authorization Object | <input type="text"/> |  |
|  | Authorization Object | <input type="text"/> |  |
|  | Authorization Object | <input type="text"/> |  |

**List Format**

Title   
Layout   
 Display All Selection Criteria  
 Display List with Role Name 



### Search for Single Roles with Authorization Data



Number of Selected Single Roles : 1

Release / System ID / Client 740 / D47 / 200

Executed By: E9811861

Executed On: 05/20/2020 / 09:07:18

#### Standard Selection Criteria

Role I EQ DVZDLM0000  
All Roles Regardless of User Assignment X

| Role       | Type | Short Role Description                         |
|------------|------|------------------------------------------------|
| DVZDLM0000 | ⊕    | DV - DATA LOAD AND MIGRATION - DEV AND QA ONLY |