1 GUIDE TO SETUP COSMAS AND IORDER IDOCS FOR TREMCO

1.1 Purpose

This document describes the setup of the COSMAS and IORDER IDOCS for Tremco. It will not document the setup of ALE and EDI in SAP. For documentation about ALE and EDI please use general available SAP books (SAP Press), articles and the web.

1.2 General Activation

To be able to use change pointers in an SAP system first check if the general change pointer function is set. Use the t-code 'SPRO' and look for 'Activate ALE change Pointer Generally' (see below). Make sure the checkbox is set.

 Change Transfer 	Activete Change Deletere Concerlle
 Change Transfer for Master Data 	Activate Change Pointers Generally
🔹 🔂 Configure Change Transfer for Master Data	
 Schedule Periodic Transfer Using ALE Change Pointers 	
🔆 🗟 🕒 Activate ALE Change Pointers Generally 🔵	
 Activate ALE Change Pointers for Message Types 	Activation status
 Reorganize ALE Change Pointers 	
 Activate Change Pointers for Production Process Models 	Cange pointers activated - generally
 Enhancements 	
 Change Transfer for Transaction Data 	
 Enhancement for the CIF Comparison/Reconciliation 	

1.3 Activate COSMAS and IORDERS change pointers

To be able to use change pointers for Cost Centers and Maintenance Orders they need to be activated using t-code SPRO. Search for 'Activate ALE Change Pointers for Message Types' (see below).

	arcentere ene perce renegements
- 🕞	Integration with Other mySAP.com Components
•	Advanced Planning and Optimization
•	Basic Settings for Setting Up the System Landscape
	Basic Settings for the Data Transfer
	• 🗟 🕒 Set User Parameters
	 B O Configure Application Log
	 Reorganize Entries in the Application Log
	 Initial Data Transfer
	 Change Transfer
	 Change Transfer for Master Data
	🔹 📴 🕒 Configure Change Transfer for Master Data
	 Schedule Periodic Transfer Using ALE Change Pointers
	• 🛃 🕀 Activate ALE Change Pointers Generally
	• 🛃 🕼 Activate ALE Change Pointers for Message Types
	 Reorganize ALE Change Pointers
	Activate Change Pointers for Production Process Models
	 Enhancements

Activate both the COSMAS and IORDER change pointers by checking the checkbox.

Change View "Activa	te Change pointe	Change View "Activ	ate Change pointe
🎾 New Entries 👔 📑 🖒		💅 New Entries 🛍 🖬 🗠	
Activate Change pointers for Me	essage Type		1
Messg.Type	active 🛅	Activate Change pointers for I	Message Type
COSCOR		Messg, Type	active
COSMAS		INTERNAL OPDER	
CRECOR			
CREMAS		IORDER	
DANGEROUSGOOD		KNOMAS	
DEBCOR		LAYMOD	

1.4 Setup of Partner profiles, Ports and RFC destination

The next step is to setup the partner profiles/logical systems, ports and RFC destinations. Below a description for setting this up for both the COSMAS and IORDER IDOCS. The setup is not sequential but sometimes a second session need to be opened to create another setup piece. We can use the t-code WEDI to setup all 3 items.



1.4.1 Partner profiles/Logical systems

First check if the logical system for the SAP system itself is setup. Ask your Basis person what the logical system for SAP is and if it is setup already. Normally you don't have access to set this up. In this case Tremco did define the systems logical system. In this case it has the name '34001461'.



Next is the process of setting up the partner profile(s) for COSMAS and IORDER. Because they are both outbound only 1 partner type would be setup. In this case it got the name 'SSCLNT300'.

Partner profiles					
0 % & 0 0 3	°c 🖧 🚺 🔽 🗖	1			
Partner	Description	Partner No.	SSPCLNT300	Sandbox 300	
 Partner Profiles 		Partn Tyne	LS	Logical system	
• 🗀 Partner Type B	Bank	i di cita i pe		Logical system	
• 🗀 Partner Type B	Benefits provider				
• 🗀 Partner Type G	Business Partner	Post pro	cessing: permitted	agent Classification T. C. D.G.	
Partner Type K	L Customer				
Partner Type L	Vendor		me		
Partner Type I	SLogical system	12.	05	Lig User	
· 34001461	Tremco Duns pur	Agent	X_BAKKERHE	Henk Bakker	
 APOCLNT300 	APOCINT300 PRD Client 300		EN	English	
 BWHCLNT300 	PRD Client 300				
 PRDCLNT300 	prd				
 OASCLNT300 	QAS				
SSPCLNT300	Sandbox 300				
Partner Type U	SUser (first 10 char;	Outbound par	mtrs.		

1.4.1.1 Setup Partner profile message types

Part of the setup is the setup of both the message types. Part of this setup requires that other items are already be available. They could be created in a separate transaction.

Partner profiles				
0%6013	ù # 🖬 🗖 🕻	3		
Partner Partner Profiles Partner Type B Partner Type BF Partner Type GF Partner Type KL Partner Type LI	Description Bank Benefits provider Business Partner Customer Vendor	Partner No. Partn.Type Post proce	SSPCLNT300 LS ssing: permitted	Sandbox 300 Logical system agent Classificatio
 Partner Type LS 34001461 APOCLNT300 BWHCLNT300 PRDCLNT300 QASCLNT300 SSPCLNT300 	Logical system Tremco Duns num PRD Client 300 PRD Client 300 prd QAS Sandbox 300	Agent Lang.	X_BAKKERHE EN	Henk Bakker English
- Partner Type Us	oser (nisc 10 chan	Partner Role	Message Type COSMAS IORDER	Message va Me

The setup of the COSMAS message type with an already defined receiver port 'CONCURPORT' and COSMAS base IDOC type COSMAS01 (standard SAP).

Partner profiles:	Outbound p	parameters	
*2			
Partner No.	SSPCLNT300	Sandbox 300	
Partn.Type	LS	Logical system	
Partner Role			
불 Message Type	COSMAS		Master cost center
Message code			
Message function		Test	
Outbound Options	Message Control	Post Processing: P	ermitted Agent Tel
Receiver port	CONCURPORT	File	PORT FOR CONCUR FILE
Output Mode			
 Transfer IDoc Immed. 	<u></u> s	tart subsystem	Output Mode
O Collect IDocs	• D	o not start subsystem	
IDoc Type			
Basic type 🧹	COSMAS01		Master cost center
Extension			
View			
Cancel Processing After	Syntax Error		
Seg. release in IDoc type		Segment Appl. I	Rel.

The setup of the IORDER message type with an already defined receiver port 'CONCURPORT', the IORDER base IDOC type IORDER01 (standard SAP) and the too be created IDOC extension ZORDER01.

Ø			
artner No.	SSPCLNT300	Sandbox 300	
artn. Type	LS	Logical system	
artner Role			
Message Type	IORDER		SM / PM order
essage code			
essage function		🛄 Test	
Receiver port	CONCURPORT		PORT FOR CONCUR FILE
Receiver port Output Mode Transfer IDoc Imme Collect IDocs	CONCURPORT	Start subsystem	PORT FOR CONCUR FILE Output Mode
Receiver port Output Mode Transfer IDoc Immo Collect IDocs IDoc Type	concurport	Start subsystem	PORT FOR CONCUR FILE Output Mode
Receiver port Output Mode Transfer IDoc Imme Collect IDocs IDoc Type Basic type	CONCURPORT	Start subsystem	PORT FOR CONCUR FILE Output Mode m SM/PM order IDoc
Receiver port Output Mode Transfer IDoc Imme Collect IDocs IDoc Type Basic type Extension	CONCURPORT	Start subsystem	PORT FOR CONCUR FILE Output Mode m SM/PM order IDoc IDOC order enhancemen
Receiver port Output Mode Transfer IDoc Immo Collect IDocs IDoc Type Basic type Extension View	CONCURPORT	Start subsystem	PORT FOR CONCUR FILE Output Mode m SM/PM order IDoc IDOC order enhancemen
Receiver port Output Mode Transfer IDoc Imme Collect IDocs IDoc Type Basic type Extension View Cancel Processing A	CONCURPORT	Start subsystem	PORT FOR CONCUR FILE Output Mode m SM/PM order IDoc IDOC order enhancemen

1.4.2 Setup of the port definitions

To be able to create both output files with IDOC data from COSMAS and IORDER it is required to setup a 'File' port.



For the Concur interfaces the file port is called 'CONCURPORT'. This port is specifically created for the Concur interfaces and should only be used for concur.



To be able to setup this port a number of other items in SAP should already be setup, available (see below). Ask the Basis person to setup a special directory on the application server in which the IDOC files will be stored. Make sure the directory is accessible by the SAP processes by checking the access <ACCESS TEST>. Also a function is required that specifies the file format (name). SAP did created a number of standard functions but if needed a 'Z' function module could be create to give the file a different name.

orts	Description	Port	CONCURPORT		
Ports	Ports		Description PORT FOR CONCUR FILE		1
 Image: Image: Transactional Ri Transactional Ri File 	F		6		-1
 AS2_EDI_60 	SAP EDI Interface	Version System Setting			System Setting
CONCURPORT PORT FOR CONCU EDIPORT EDIPORT FTP_EDI_60 SAP EDI Interface SAPDEV SAP Dev Port SAP_EDI_00 SAP EDI Interface	 Doc rec. Doc rec. Doc reco 	○ IDoc rec.types SAP Release 2.0/2.1 ✓ Unicode format ○ IDoc rec.types SAP Release 3.0/3.1 ○ Continue despite conversion ● IDoc record types SAP Release 4.x Replacement char.		Continue despite conversion error Replacement char.	
 SAP_EDI_45 SAP_EDI_60 SAP_LBMX60 USA_EDI_60 	SAP_EDI_45 SAP_EDI_60 SAP_EDI_60 SAP_LBMX60 SAP_EDI Interface USA_EDI_60 SAP_EDI Interface		nd file Outbour	nd: Trigger Inb	ound file Status file
· CPI-C		OL ogical di	rectory	Access	Test
ABAP-PI		Ophysical d	lirectory		
		Directory	/data xfer/inte	rface/outbound/co	ncur/
		Function mo	dule	Z_PATH_CREAT	E_MESTYP_DATTIM
		Description		Directory - IDO	C type - date - IDOC number
		Outbound fi	le		

The directory created especially for concur interfaces:

/data_xfer/inter/i	erface/outbou	nd/concur	
/data_xfer/i	.nterface/out	tbound/concur	
root@bsapsnd	l:outbound/co	oncur> 11	
total O			
-rw-rr	1 sndadm	sapsys	0 Feb 21 08:30 test.dat
-rw-rr	1 sndadm	sapsys	0 Feb 21 08:30 test.txt
root@bsapsnd	l:outbound/co	oncur>	

The function module to name the file. Use t-code se37.



Also use t-code WE54 to connect available function modules for naming files (see below).

Expand <-> Collapse New Entries	s 🔃 🗊 Delimit 🕼 🔜 🖳 🖳 🖓 Variable List 🖃	Fo
IDoc: Function Modules for File Names	vi de la companya de	
Name of function module	Description	
DX_PATH_CREATE	File name determination for the DX Workbench	-
EDI_LPATH_CREATE_CLIENT_DOCNUM	Logical directory, file name in format T_client_docnum	*
EDI_LPATH_CREATE_USERNAME	Logical directory, file name in SY-UNAME format	-
EDI_PATH_CREATE_CLIENT_DOCNUM	Directory + file name in format T_Client_Docnum	
EDI_PATH_CREATE_DATE_TIME	Directory + file name in format T_CCYYMMDD_HHMMSS	
EDI_PATH_CREATE_LENGTH_LE_8	Directory + file name in format NTHHMMSS.T	
EDI_PATH_CREATE_MESTYP_DOCNUM	Directory + <message type="">_<last 8="" characters="" docnum<="" of="" td=""><td></td></last></message>	
EDI_PATH_CREATE_POS_UNIX_DOS	Directory + file name (name last 8 characters of DOCNUM)	
EDI_PATH_CREATE_RETAIL_STORE	Directory + file name in format T_Store_ <docnum 16="" char.<="" td=""><td></td></docnum>	
EDI_PATH_CREATE_USERNAME	Directory + file name in format SY-UNAME	
EDI_PATH_CREATE_USERNAME_DT_TM	Directory + file name in format T_SY-UNAME_CCYYMMDD_H	i.
JBD_EXP_GET_OUTPUT_FILENAME	SEM-PA Export File Names	
2 PATH_CREATE_MESTYP_DATTIM	Directory - IDOC type - date - IDOC number	-
	4.5	*

1.4.3 The setup of RFC destination

The RFC destination has the same name as the partner profile 'SSCLNT300'. Goto ABAP Connections and define an RFC connection.

Step 1:	Configuration of RFC Connections							
	ARC Connections 19							
	HTTP Connections to External Server G							
	Internal Connections							
Ctor 2.								
Step 2:	Configuration of RFC Connections							
	RFC Connections Ty Comment							
	PRDCLNT300 3 EHS ALE transfer of master data D OAS - Client 300 OAS(300) - OA and Training							
	B SAPOSS SA SAPOSS SAPOSS SAPOSS							
	B SDCC_OSS Automatically generated Destination to SAP B SM SMPCI NT001 BACK Generated Destination							
	• SM_SMPCLNT001_TRUSTED 3							
	E SM_SMP_TRUSTED_BACK Generated Destination SM_SMOCLNT001_BACK Generated Destination							
	SM_SMQCLNT300_BACK 3 Generated Destination							
	Image: SM_SMQCLNT300_TRUSTED 3 Image: SM_SMQ_TRUSTED_BACK 3 Generated Destination							
	· E SND 3							
	B SVT CLIENT000 Connection to Client 000 for EH&S SVT							
Step 3:	REC Destination SSPCI NT200							
· ·	RFC Destination SSFCLN1500							
	Remote Logon Connection Test Unicode Test 🌮							
	RFC Destination SSPCLNT300							
	Connection Type 3 ABAP Connection Description							
	Description							
	Description 1							
	Description 2							
	Description 3							
	Administration rechnical settings Logon & Security Functione Fis							
	Target System Settings							
	Load Balancing Status							
	Load Balancing O Yes No							
	Target Host bsapvsnd							
	Save to Database as							
	Save as OHostname IP Address 10.16.48.114							

Define the target host and IP address.

1.4.4 Create the extension for the IORDER01 IDOC

In order to extend an IDOC use t-code WE30. Specify the name of the extension 'ZORDR01' (no more than 8 char).

- 1) Give your basic IDOC type at the object name
- 2) Select the Extension radio button
- 3) Click on create button

🗋 🖉 🗞 🛅 🚇	6 Change Reque	ests (Organizer)		
		🔄 Create extension: ZIORD	R01	[
Obj. Name	ZIORDR01	New extension		
		• Create new	Linked basic type	IORDER01
Development object				
O Basic type		O Create as copy	Copy from extension	
Extension			Linked with basic type	
		O Create successor	Successor of extension	
		Administration		
		Person responsible	X_BAKKERHE	
		Processing person	X_BAKKERHE	
		Description		7
		IDOC order ehancement		

4) Click on 'Create new' and specify base type 'IORDER01'.

5) Give the description and click on continue button.

Select the segment level you want to add your new segment. Select that particular segment and click on the create segment button and place your already created segment. See next how to create the new segment. Save and release (option under edit tab).

Create extension: ZIOR	DR01
🗅 🛱 🗶 🖻 🖆 🚇	
ZIORDRO1 E1ORHDR E1ORHDR_LTXT E1ORADR C E1ORPMT E E1ORPAR E E1ORPAR E E1ORPAR E E1ORPAR E E1ORPAR E E1ORPAR	II Segm.type ZE11ORD Mandatory seg. Minimum number 1 Maximum number 1 Parent segment Hier.level 0

1.4.4.1 Create the extension segment

Use the t-code we31 to create a new segment. Specify the name of the new segment, the description and the field name(s) in the new segment. Make sure that you press the save and release the segment for use.

De	velopment s	segments: Di	splay segment	definition 2	ZE1IO	RD	000
4							
Segn	nent type attribute	s					
Segn	nent type	ZE1IORD		🗹 Qualified :	segment		
Short	t Description	Extension IOF	RDER				
Last	n. definition Changed By	X_BAKKERHE		Keleased			
Po	Field Name		Data element		ISO c	Ex	
1	LOEKZ		LOEKZ			1	^
							-
							-
							-

1.4.5 Assign extension to output type

The next step is to add the extension to the output type using t-code we82.

Display View	"Output Types	and Assig	nment to .	IDoc Types	": Ove
7 .					
Output Types and A	ssignment to IDoc Typ	Des		1	
Message Type	Basic type	Extension	Release		
IOAUPD	AUPD01		46A	-	
IORDER	IORDER01	ZIORDR01	702	*	
IORUPD	IORUPD01		46A		
ISMBPEX_SAVE	ISMBPEX_SAVE01		46C		
ISMBP_CHANGE	ISMBP_CHANGE01		46C		
ISMBP_CREATE	ISMBP_CREATE01		46C		
ISM_MATMAS	ISM_MATMAS03		46C		
IST_EBS_ARC_MSG	IST_EBS_ARC_DOC		46A		
IST_EBS_BUPART	IST_EBS_BUPART		46A		
IST_EBS_COACC_M.	IST_EBS_COACC_D		46A		

1.4.6 Assign function, base type and extension

Next is to replace the line with IDOC_OUTPUT_IORDER With the new function module, base type and extension.

IDOC_IMPOI_WP_FLO	. WF_FLOUZ		WE_FTO
IDOC_INPUT_WP_PLU	. WP_PLU02		WP_PLU_RT
IDOC_OUTPUT_ACTNOM	OILNOM01		ACTNOM
IDOC_OUTPUT_DESADV01	. TDELVRY05		DELINF
IDOC_OUTPUT_IORDER	- IORDER01	ZIORDR01	IORDER
IDOC_OUTPUT_OIJ_NOM_COMM	OIJ_NOM_DET.		OIJ_NOM_COMM

Display View "IDoc: Assi	gn	ment of	FM to Log	. Message	aı	nd.
🦻 🕄 🖪 🖪						
IDoc: Assignment of FM to Log. Messa	ge :	and IDoc Typ	e		_	
FM Name	F	BasicType	Enhanc.	Messg. Type	v	
ZKFBC_MX_IDOC_INPUT		ZKFBC_NFE		ZKFBC_MX_IN		
ZMASTERIDOC_CREATE_SMD_IORDER	.•	IORDER01	ZIORDR01	IORDER		٣

Make sure that in the details it is specified as outbound interface (double click on line).

988	
Function module	ZMASTERIDOC_CREATE_SMD_IORDER
Function type	Function module
Basic type	IORDER01
Extension	ZIORDR01
Message Type	IORDER
Message Variant	
Mess. function	
Object Type	
IDoc: Assignment	of FM to Log. Message and IDoc Type
Direction	Outbound
Description	SM / PM order

1.4.7 Create user exit for extension ZORDR01

To create an extension use t-code cmod. Create a project (ZIORDERS) and use the enhancement IWMI0001. Use the function exit depicted below and create the user exit code.



Function Module for new IDOC

1.4.8 Function module for new IDOC IORDER01

Below is depicted the Import attributes and attached the Function module (se37).

Function Builde	er: Dis	play ZMAST	ERIDOC_CR	EAT
수 🔿 🦻 😳 🖻	0 6	1 또 수 용	£ 🗆 🖬 🔇	3 3
unction module	ZMASTE	RIDOC_CREATE_S	MD_IORDER Activ	/e
Attributes Impor	t D	ort Changing	Tables E	xcepti
	Turni	Associated Tura	Default volue	0
Y DR BB	Typi	Associated Type	Default value	Oţ
Parameter Name MESSAGE_TYPE CREATION DATE HIGH	Typi LIKE LIKE	Associated Type TBDME-MESTYP SY-DATUM	Default value	0; [



1.4.9 Global company codes (OB72, OBV7 & OBB5) - COSMAS

For the COSMAS interface it is required that we use cross company codes. They need to be defined with t-code OB72 (Global Company codes), OBB5 (Assign company code -> Cross company code).

USE OB72:

6	Change Vie	w '	'Cra	<i></i>	- <i>S</i> j
*9	New Entries	ľ	-	Ø	R
	Global CoCde				
	1000	*			
	2010	-			
	2020				
	2030				
	4000	-			

OBB5

35			
Chai	nge View "Assign co	mpany code -> Ci	ross-system company
2			
CoCd	Company Name	City	Global CoCde
0010	Country Template US	U.S.A.	A
1000	Tremco Incorporated	Beachwood, Ohio	1000 💌
1100	Paramount Technical Prod	Spearfish	
1500	Tremco Barrier Solutions	Reynoldsburg, OH	
2000	Tremco Canada Division	Toronto	
2010	RPM Canada Company	Toronto	2010
2020	RPM Canada Investment Co	Toronto	2020
2030	RPM Canada Undiist. Div.	Toronto	2030
3000	Republic Powdered Metals	Medina, Ohio	
3100	Haartz-Mason	Haartz-Mason, Inc	
3200	RPM Mass	Watertown	
4000	Weatherproofing Tech.	Beachwood, Ohio	
5000	The Euclid Chemical Co.	Cleveland, Ohio	

To be replaced with (enter 4000) Cross company code.

	Chai	nge View "Assign col	mpany code -> Cros	s-system comp	oany cod
5	7 w				
	CoCd	Company Namo	City	Global CoCda	
	0010	Company Name	U.C.A	Giobal Cocce	
	0010	Country Template US	U.S.A.		
	1000	Tremco Incorporated	Beachwood, Ohio	1000	- in
	1100	Paramount Technical Prod	Spearfish		
	1500	Tremco Barrier Solutions	Reynoldsburg, OH		
	2000	Tremco Canada Division	Toronto		
	2010	RPM Canada Company	Toronto	2010	
	2020	RPM Canada Investment Co	Toronto	2020	
	2030	RPM Canada Undiist. Div.	Toronto	2030	
	3000	Republic Powdered Metals	Medina, Ohio		
	3100	Haartz-Mason	Haartz-Mason, Inc		
	3200	RPM Mass	Watertown		
	4000	Weatherproofing Tech.	Beachwood, Ohio	(4000)	j l
	5000	The Fuclid Chemical Co.	Cleveland, Ohio		

1.4.10 Interface filter setup

To be able to filter IDOCS for specific values in specific fields use t-code BD59 and t-code BD95 to define the fields that can be used as filter.

For COSMAS we need to add the date field. Below is depicted how to add this for COSMAS.

Find Maintenance Dialog		
E Datamina Wali Assa Est	6	3
Le Determine Work Area: Enti	ly l	^
Field Name	Work Area	_
Field Name Message Type	Work Area	
Field Name Message Type	Work Area COSMAS	5
Field Name Message Type	Work Area	2

Add field for filter DATBI.

C	hange View "Ass	ignment of Ob	ject	t Type to Mes	sage	": Overvie	w
~	New Entries 🗈 🔒	∽ B B B					
Mes	sage Type COSM	AS					
	Assignment of Object Typ	e to Message	1				
_	ALE Object Type	Segm.type	No.	Field	Offset	IntLength	
C	DATBI	E1CSKSM	1	DATBI	đ	8	1
	KOKRS	EICSKSM	1	KOKRS	6	4	-
	KOSTL	E1CSKSM	1	KOKRS	6	4	
	KOSTL	E1CSKSM	2	KOSTL	10	10	
	MSGFN	E1CSKSM	1	MSGFN	0	3	33
	MSGFN	E1CSKTM	1	MSGFN	0	3	

T-code BD95.

Change View "ALE Ob	oject Type": Overview	,
💖 New Entries 🛯 🔂 🕼		
ALE Object Type		
ALE Object Type	Table Name	Field name
DAPPL1	DRAW	C PPL1
DATBI	CSKS	DATBI
DISTR_CHAN	BAPIE1MVKERT	DISTR_CHAN
DLVTYP	DLVHDR	DLVTYP
DOKAR	TDWAT	DOKAR
DOKNR	DRAT	DOKNR
	4 🕨 💠	
	Position	Entry 65 of 264
	SAP 👂 BD9:	5 🔻 bsapvsnd INS 🌌

For IORDER we need to add the type field. Below is depicted how to add this for IORDER.

laintain Table Views	: Initial Screen
Find Maintenance Dialog	
Er Determine Work Asers Fe	
Le Determine Work Area: En	
Field Name	Work Area
Message Type	
	Further select cond. Append 🖷 🕱

Add field for filter AUART.

C	hange View "Ass	ignment of Ol	bjec	t Type to Me	essage	": Overvie	w
Ý	New Entries 🗎 🔒	∅ 🖪 🖪 🖪					
Mess	age Type IORD	IR					
	Assignment of Ohiect Typ	e to Message					
	ALE Object Type	Segnitype	No.	Field	Offset	IntLength	
	AUART	E1ORHDR	1	AUART	<u>þ</u>	4	1
-							-

T-code BD95.

🦻 New Entries 🛅		
-		
ALE Object Type		
ALE Object Type	Table Name	Field name
ASNUM	ASMDT	
AUART	KOMG	AUART
		8
	2 Decition	Entry DE of D64

1.4.11 Create Distribution model (bd64)

Now we can create a distribution model. In the distribution model we specify for both IDOC types the receiving and sending logical systems and filter parameters.

Display Distribution Moder	
🔌 📋 🕄 🔚 🖆 📲 System View 🛛 🕏 Filter model o	lisplay 🗋 Create model view 🗋 Add BAPI 📑 Add messag
Distribution Model	Description/ technical name Busin
Model views	
Xi ALE EHS Model CHRMAS / CHLMAS Xi ALE MODEL	0034001461 ALE MODEL
Tremco Duns number for EDI Processing	0034001461
 Sandbox 300 	SSPCLNT300
COSMAS	Master cost center
 Data filter active 	
 Elter group 	
🔽 🖵 Valid To	Valid To Date
· 🗳 99990531 · 🗳 99991231	
- Controling Area	Controlling Area
• 🖬 0010	No short text maintained
IORDER)	SM / PM order
 Data filter active 	
✓ I Filter group	
- Under Type	Order Type
(• 🛃 ZM01	30, Service / Inspection Order
С. 2MTB	30, TBS Service / Inspection Order
• 器 SLL-LEG	SLL-LEG
	()

Next step is to generate the distribution model.

Generate Partner Profi	le
()	
todel View	ALE MODEL D to
artner System	to
heck Run	
Default Parameters for Partner Profile	e
Postprocessing: Authorized Users	
Ty.	US User
ID	X_BAKKERHE Henk Bakker
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	

After successful generation we can see that an extra message type 'SYNCH' is create (see below).

Partner	Description	Partner No.	SSPCLNT300	Sandbox 300
 Partner Profiles 		Partn. Type	LS	Logical system
Partner Type 6 Partner Type 6 Partner Type 6 Partner Type 6	Benefits provider Business Partner	Post proc	essing: permitted	l agent 🛛 Cla
Partner Type LI	Vendor	Tv.	US	🔒 User
 Partner Type L9 	Logical system	Agent	X BAKKERHE	Henk Bakk
 34001461 APOCLNT300 	PRD Client 300	Lang.	EN	English
BWHCLNT300 PRDCLNT300 QASCLNT300 CODCLNT300	PRD Client 300 prd QAS Sandhox 200			
Partner Type Us	User (first 10 char.	Outbound parr	ntrs.	
		Partner Rol	Message Type	Message
			COSMAS	
			IORDER	
		(SYNCH	

Please make sure that the receiving ports are setup correctly.

👮 Message Type	COSMAS	불 Message Type	IORDER
Message code		Message code	
Message function	Tes	Message function	Te
Outbound Options	Message Control Po	Outbound Options	Message Control Pc
	CONCURDORT	Baselus and	
Receiver port	CONCORPORT LY FIE	Receiver port	CONCORPORT

For the SYNCH message type we need a Transactional RFC (check if available).

북 Message Type	SYNCH		Ports in IDoc proce	essing		
Message code			0%00000000	1		
Message function		Test	Ports	Descript	Port	A00000037
Outbound Options	Message Control	Post Processing:	Ports Transactional RFC		Description	Flat file system
		T	 A000000015 A000000016 	EHS ALE tra PRD Client 3	Version	
Pack. Size	100	Transactional RFC	A000000017 A000000036 A000000037 File	PRD Client 3 XML system Flat file syste	 IDoc rec.typ IDoc record 	es SAP Release 3.0/3.1 types SAP Release 4.x
					RFC destination	SSPCLNT300

1.4.12 Define IORDER entry for BD21

Use t-code BD60 to add the following entry.

<u>T</u> able View <u>E</u> dit <u>G</u> oto	<u>Selection</u> Utilities(<u>M</u>)	System <u>H</u> elp	
•	i 📙 I 🕸 🙆 🚷 I 🖴	1111月1日日	081
Change View "Additio	onal Data for Mes	sage Type":	Details
🦻 New Entries 间 🔜 🖒 🕻			
lessage Type IORDER			
Additional Data for Message Type			
Additional Data			
Reference Message Type	IORDER		
Format Function Module	ZMASTERIDOC_CREATE	SMD_IORDER	
Reducable Message Type			
Classification Data			
Classifiable Object			
ALE Object Type			
Created by X_BAKKERHE			
Created on 03/31/2014	_		
Changed by Changed On			

1.4.13 Define the change pointer fields for IORDER

For COSMAS the change pointers have already been defined by SAP. For the IDOC IORDER use t-code BD52 to define all the fields that should be a change pointer. For the initial create of the document define the field 'KEY' as change pointer.

Change do	cument items for message typ	e		
Object	Table Name	Field Name	••••	
ORDER	AUFK	AEDAT		
ORDER	D FK	AEZEIT	-	
ORDER	AUFK	AUART		
ORDER	AUFK	AUFNR		
ORDER	AUFK	ERDAT		
ORDER	AUFK	ERFZEIT		
ORDER	AUFK	IDAT1		
ORDER	AUFK	IDAT2		
ORDER	AUFK	IDAT3		
ORDER	AUFK	KEY		
ORDER	AUFK	KTEXT		
ORDER	AUFK	STDAT		
			-	

Because SAP normally using change pointers only for Master Data changes it is required that for every field we check the field element type for the option Change document (see below as example for IDAT1).

Dictionary: Display Data Element	Data element	AUFIDAT1
🗢 수 🗇 昭 🏭 著 🥎 옮 温 🖪 嚕 📫 Documentation	Short Description	Release date
Data element AUFIDAT1 Dtive		
Short Description Release date	Attributes Da	ata Type / Further Character
Attributes Data Tune Further Characteristics Field Label		
Accibuces Data Type Purcher Characteristics Fried Caber	Search Help	
Search Help	Name	-
Name	Parameters	ĺ.
Parameters		
Parameter ID	Parameter ID	
Default Component Name DATE_RELEASE	Default Component N	Name DATE_RELEASE
Change document		
No Input History	Change document	
	No Input History	
	Citto tubuc tipeoity	

1.4.14 Setup Hourly jobs for execution of BD21 with variant for COSMAS and IORDER

Last thing to do is to setup the jobs that will generate every hour the COSMAS and IORDER files based on the changes in change pointers. The job is running t-code bd21 with a variant.

JOB:

Start condition	🖑 Step	🕄 Job details	🗟 Job lo	g 🛛 🔂 Predecessor job	🗟 Successor job	🔏 Job selection	⊡ 90w
General data							
Job name	CONCUR CO	OST CENTER					
Job class	в			-			
Status	Finished						
Exec. Target	bsapvsnd_	SND_00		Spool list recipient			
Job start				Job frequency			
Planned Start				Hourly			
Date 03/2	24/2014	Time 15:30	:00				
Joh stons							
I Step(s) succe	essivity de	erined					

Variant:

Message type

Creating IDoc Type from Change Pointers						
(b) (b) 🖬						
Message type						
ABAP: Variant Directory of Program RBDMIDOC Ariant catalog for program RBDMIDOC Variant name Short Description CONCUR COSTC CONCUR COST CENTER JORDER JORDER IDOC						
Variant itself:						
Creating IDoc Type from Change Pol	Creating IDoc Type from Change Pointers					
🕒 🚱 🖪	(b) (b) [1]					

🕹 🔁 🚺

Message type

IORDER

COSMAS