

**276276**

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## 2 276276 - AS-84PBMN/ Dunelm SAP Order EDI Flow

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## 3 FUNCTIONAL OVERVIEW

### 3.1 Client Requirement

Create a new integration flow to allow order header information from SAP R3 to be uploaded into Calidus TMS.

Upload orders from SAP, validate versus static data and for mandatory fields, hold any errors in interface errors for review and resolution.

### 3.2 Solution

Dunelm will provide order files in XML format. These files will be transmitted or uploaded to ESI probably by ftp but the method and communication transport to be agreed. ESI will validate and transform the SAP XML message into the OBS XML Trip Order Schema. The ESI output files will be pushed via ftp to the C-TMS platform at OBS data centre in Runcorn.

C-TMS will recognise new files as they are created in the designated /in folder. The files will be validated, any errors saved and reported in the C-TMS interface errors form, and where clean, loaded as order headers with C-TMS.

### 3.3 Scope

This change will be applied to C-TMS system version 10.6.



# 4 FUNCTIONAL DESCRIPTION

## 4.1 Pre-requisites

Message flow



Connectivity details between SAP and ESI to be defined.

Connectivity details between ESI and C-TMS are defined below;

C-TMS Server Details			
QA / Test		Production	
Name	DHLTEST	Name	DHLUK
Domain Name		Domain Name	
IP Address	10.162.132.67	IP Address	10.162.132.64
Nat'd IP Address	If applicable	Nat'd IP Address	If applicable
External system to DHL	No	External system to DHL	No
UserID	eih_ftp	UserID	eih_ftp
Password	Will be issued as regd.	Password	Will be issued as regd.

### ESI Output

DESCRIPTION	QA ENVIRONMENT	LIVE ENVIRONMENT
OUTPUT MESSAGECODE	To be defined by ESI	To be defined by ESI
OUTPUT FILE	SAP_TMS_DUNTST_YYYYMMDDHHMM_999.XML	SAP_TMS_DUNPRD_YYYYMMDDHHMM_999.XML
NODE	ESI	ESI
DIRECTORY	/webint/duntst/interface/SAP/IN	/webint/dunprd/interface/SAP/IN
DESTINATION APPLICATION	C-TMS(MTS)	MTS
OUTPUT FORMAT	XML	
BUSINESS FLOW NAME	Orders from SAP to C-TMS	

Note the output files are made unique using date time and a generated 3 digit sequence number.

## 4.2 Data & Mapping

Note that the input status is per order while the output status is per file. ESI will need to create an output file for each group of <status> in the input file. Alternatively, can SAP send separate files of N (new), A (amend) and C (cancel)?



Input	Example	Comment	Output	Example
		Fixed value 'N'	<EVENT_PROCESSED>	N
		Fixed value 'SAP'	<EVENT_SOURCE_TYPE>	SAP
		Fixed value 'R3'	<EVENT_SOURCE_NAME>	R3
		Date time the output file created	<EVENT_DATE>	2010-04-15T09:48:00
<status>	N	Fixed value 'ORD' 'C' if input = 'N' Else 'A' if input = 'A' Else 'D' if input = 'C'	<EVENT_TYPE> <EVENT_ACTION>	ORD C
		Fixed value 'O'	<TRIP_IDENTIFIER>	O
		Fixed value 'O'	<STOP_IDENTIFIER>	O
		Date time the output file received	<ORDER_TRANSACTION_DATE>	2010-04-15T09:45:00
		Fixed value 'O'	<ORDER_TYPE>	O
<lifnr>	FOG01	Input = output	<WMS_OWNER>	FOG01
<ebeln>	3001155767	Input = output	<SO_REF>	3001155767
<bedat>	20100415	Fixed value 'ORDERED ' + input	<ORDER_COMMENTS>	ORDERED 20100415
<eindt>	20100417	Input date = previous working weekday date + fixed time 08:00:00	<EARLY_AVAIL_DATE>	2010-04-19T08:00:00
<eindt>	20100417	Input date = previous working weekday date + fixed time 17:00:00	<LATE_AVAIL_DATE>	2010-04-19T17:00:00
<eindt>	20100417	Input date = output date + fixed time 08:00:00	<EARLY_DEL_DATE>	2010-04-20T08:00:00
<eindt>	20100417	Input date = output date + fixed time 17:00:00	<LATE_DEL_DATE>	2010-04-20T17:00:00
		Fixed value 'DUNELM'	<TMS_COST_CENTRE>	DUNELM
		Fixed value 'DEP'	<ADDRESS_TYPE>	DEP
<lifnr>	FOG01	Input = output	<ADDRESS_ID>	FOG01
		Fixed value 'DEL'	<ADDRESS_TYPE>	DEL
<werks>	0180	Input = output	<ADDRESS_ID>	0180

- note that the default collection and delivery window dates/times need to be confirmed by the business.



# 5 REFERENCES

Not Available





## 6 DOCUMENT HISTORY

Version	Date	Status	Reason	Initials
0.1	03/05/10	Draft	Initial version	DJM
0.2	06/05/10	Draft	Correct filenames and include updated XSD	DJM



## 7 AUTHORISED BY

<b><i>Matt Crisford</i></b>	C-TMS Development Manager
<b><i>Dave Meir</i></b>	C-TMS Product Manager

