

287069 v1.0

Aptean Ltd
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Contents

- 1 287069.....1**
 - 1.1 Client Requirement.....2
 - 1.2 Solution.....2
 - 1.3 Scope.....3
- 2 Set-up.....4**
 - 2.1 Pre-requisites.....4
 - 2.2 Menu Structure.....4
 - 2.3 Data.....4
- 3 Functional Description.....5**
- 4 AUTHORISED BY.....7**

1 287069



DHL MTS

One Order No Identifier

FUNCTIONAL SPECIFICATION - 10.6

- 1.0

Reference: O287069 FS-8EZDHE



1.1 Client Requirement

Change Request Summary:

Due to their only being one order file from EcoTherm and no unique identifier to show an amended order, there is a requirement to allow amended orders into C-TMS within an order file. Paul McGoran/Manchester/UK/NFC

Change Request Details:

Due to their only being one order file from EcoTherm and no unique identifier to show an amended order, there is a requirement to allow amended orders into C-TMS within an order file. If the order (same Customer Reference) exists within C-TMS and is not on a trip, the order is to be updated with the new order details. If the order exists in C-TMS and is on a trip, the order is not to be updated. If the order is not currently within C-TMS, it will be treated as a new order.

Benefits identified as a result of the change:

To allow amended orders into the C-TMS system to eliminate manual amendments which will take a great deal of time to manage and eliminate human error.

1.2 Solution

A new inbound EDI process will be created using the EDI tab of the IMPORT Maintenance screen. The flow will use the generic order xml code although some code changes will be required.

Currently when using the generic xml code amendments and inserts are identified by the data in the event_action field. For ECOTHERM data, this field will not be available. ECOTHERM records will be identified based on the value of the source system.

Currently in the PROCESS_ORDER procedure, data and duplicate checks are carried out based on the EVENT TYPE of the records. If any checks are failed or duplicates are found in error, an error message is written. At the end of the checks, if the error message is still null, the order is processed.

New code will be added to the end of the existing checks for ECOTHERM records. If the ECOTHERM record is not a duplicate then error message will be set to null and the event type will be set to ORD. This will allow the record to continue through the process as a generic insert.

If an ECOTHERM record is a duplicate, another check will be run to find the status of the duplicate record. If the existing order has been scheduled on a trip the error message will be updated to reflect this information and the order will not be processed. If the duplicate is yet to be scheduled, the error message will be set to null and event_type will be set to a new value ?ORDA?

Currently when processing an order header amendment, only the source system is updated on the header. For ECOTHERM amendments, the only header data that cannot be updated is the External Reference and OMS_REF.

The new event type ?ORDA? will allow ECOTHERM amendments to be treated differently in the generic code. When an event_type ORDA is encountered when processing an order header amendment, all the header data excluding oms_ref and external ref will be updated in C-TMS.

When processing ORDER LINES and ORDER ITEMS for event_type ?ORDA?, all existing records will be deleted before the new records are inserted.



1.3 Scope

This change will be applied to system version 10.6.



2 Set-up

2.1 Pre-requisites

None

2.2 Menu Structure

Unchanged

2.3 Data



3 Functional Description

The new ECOTHERM Order process will be defined using the EDI tab of the Import Maintenance Screen. The generic order process flow will be used and the new process will run every 5 minutes.

Currently the generic code processes the order records as Inserts or amendments using a data element within the message; EVENT_TYPE.

For ECOTHERM, there is no data value to identify if the record is an insert or an amendment. Part of processing the ECOTHERM orders will involve determining the record event by C-TMS.

The code in the generic procedure PROCESS_ORDER will be amended to process the ECOTHERM records. ECOTHERM records will be identified by the value of the source system tag.

CUSTOMER and COST CENTRE will be defined in the screen as part of the process set up.

The following information will be received from ECOTHERM

Field	Source
Event Processes	?N?
Event Source Type	?ECOTHERM?
Event Source Name	?ECOTHERM?
Event_date	System date order processed
Event_type	?ORD?
Event_Action	?C?
Order Transaction Date	From ECOTHERM system
Order Type	?O?
WMS_Owner	?ECOTHERM?
So_ref	From ECOTHERM system
Special Instr	From ECOTHERM system
Early avail	From INBOUND File
Late avail	From INBOUND File
Early del	From INBOUND File
Late del	From INBOUND File
Address block details (DEP)	From ECOTHERM system
Address block details (DEL)	From ECOTHERM system
Detail Type	?S?
Product Type	From ECOTHERM system
Product Type Desc	From ECOTHERM system



Item identifier	From ECOTHERM system
Item description	From ECOTHERM system
Footprint	From ECOTHERM system
Weight	From ECOTHERM system
Volume	From ECOTHERM system
Ordered	From ECOTHERM system

In the PROCESS_ORDER procedure, data validation will be carried out, any validation failures or duplicates found in error, will write a message to an error field. Only if this error field is clean after the validation checks have been completed is the order processed.

A new check will be added to the end of the validation code, based on the value of the SOURCE SYSTEM. If the source system is ECOTHERM and the record is not a duplicate, the error field will be set back to clean and the EVENT_TYPE will be set to ORD. The ECOTHERM record will then be processed like any other addition.

If an ECOTHERM record is identified as a duplicate, a further check will identify the order status in C-TMS. If the order is not UNSCHEDULED, the error field will be updated and the order will not be processed.

If the order is still UNSCHEDULED on C-TMS, the error field will be set to clean again and the EVENT_TYPE will be set to ORDA. For an EVENT_TYPE of ?ORDA?, the following HEADER fields will be updated based on the inbound record :

SPECIAL INSTR
EARLY AVAIL DATE
LATE AVAIL DATE
EARLY DEL DATE
LATE DEL DATE
FROM_LOC
TO_LOC

When processing ECOTHERM amendments, existing order lines and items will be deleted from C-TMS and the lines and items from the inbound file will be processed as new.

Table Updates Required

N/A

References

Ref No	Document Title & ID	Version	Date
	EST 287069 FS-8EZDHE One order-no identv1.0		21/03/2011

Document History

Version	Date	Status	Reason	Initials
0.1	28/03/2011	Draft	Initial version	SW
1.0	29/03/2011	Issue	Reviewed and Issued	MJC



4 AUTHORISED BY

<i>Matt Crisford</i>	Development Manager
<i>Peter Greer</i>	TMSCC MTS Product Manager

