

291363 v1.0

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DHL C-TMS

Paragon Integration

FUNCTIONAL SPECIFICATION - 10.7

12/10/2011 - 1.0

Reference: FS 291363 - MS8KNGTX



1.1 Client Requirement

Paragon Integration

Consultation on message format, mapping through DHL Link and implementation support.

1.2 Solution

Summary

A standard integration method exists between C-TMS and Paragon. This allows orders from the order well to be exported in a specific CSV format file. This file is uploaded into paragon and contains all the necessary collection or delivery details including full address information.

Paragon is used to create an optimised transport plan, including the deliver from depot, the carrier, the vehicle type and schedule routes trips and drops.

The export function for Paragon will be enhanced to allow orders of a certain commodity type & vehicle type to be exported.

It is assumed that the current C-TMS format file export to Paragon and C-TMS format import from Paragon will be deployed.

Export Detail:-

Two new optional parameters (Commodity Type and Vehicle Type) will be added to the Paragon Interface form on the Order Export tab.

A standard dropdown list will be available for the Commodity Type (DU Types with the addition of a fixed value option of ?MIXED?) and Vehicle Type (Trailer Type).

These extra parameters will need to be passed through to the standard processing.

NB) The 2 new fields will have already been added and populated on the order header as part of the changes under the order import RIO MS-8KNFRL (291358).

The export processing will be changed in C-TMS to receive the new values and where necessary (if set) so that the values presented will assist in determining which orders should be exported to Paragon.

As the integration with Paragon for Network Rail does not have any specific export layout requirement the standard interface format will be implemented.

Import Detail:-

As the integration with Paragon for Network Rail does not have any specific import layout requirement the standard interface format will be implemented.

1.3 Scope

This change will be applied to system version 10.7



2 Set-up

2.1 Pre-requisites

291364 MS-8KNGX5 Commodity Planning adds the Product Type to the Order Header

291358 MS-9KNFRL Order Addresses & DU Type & Del type adds the Vehicle Type to the Order Header.

2.2 Menu Structure

Unchanged

2.3 Data

Unchanged

2.4 Implementation Advice

A system super user will be required to ensure that the correct paragon parameters have been set for Network Rail

The screenshot shows the 'System Parameters' window in the CALIDUS application. The window has a menu bar (Action, C-TMS Modules, Administration, Edit, Help, Window) and a title bar (System Parameters). Below the title bar is a navigation bar with buttons: <<, >>, ?.., ?, and Ctr. In the top right corner, it says 'ORI_PARAM v2.12' and 'C-TMS v10.7.6'. The main area contains a table with the following columns: Parameter Name, Config By, Config By Value, Value, and Description.

Parameter Name	Config By	Config By Value	Value	Description
PARAGON_RUNNING	SYSTEM	NONE	N	Paragon Import is currently running (to stop outbound XML
PAR_FTP_DESTINATION_DIRECTORY	SYSTEM	NONE	/tmp	Directory for FTP of Paragon Files
PAR_FTP_DESTINATION_IP_ADDRESS	SYSTEM	NONE	10.45.0.39	IP for FTP of Paragon Files
PAR_FTP_DESTINATION_PASSWORD	SYSTEM	NONE	sunspot49	Password for FTP of Paragon Files
PAR_FTP_DESTINATION_PORT	SYSTEM	NONE	21	Port for FTP of Paragon Files
PAR_FTP_DESTINATION_USERNAME	SYSTEM	NONE	cmr	Username for FTP of Paragon Files
PAR_INBOUND_ARCH	SYSTEM	NONE	/u03/webint/mtstst/interface/PAR/IN/	Path for Paragon XML archiving
PAR_INBOUND_FAIL	SYSTEM	NONE	/u03/webint/mtstst/interface/PAR/IN/	Path for Paragon XML failures
PAR_INBOUND_IDENTIFIER	SYSTEM	NONE	PAR_MTS_*.XML	Pattern for Paragon Trip Inbound XML
PAR_INBOUND_LISTING_NAME	SYSTEM	NONE	PAR_TRIP_FILES.lst	Filename for list of files in directory for Paragon XML trip In
MTS_OUTBOUND_ORDER_PATH	SYSTEM	NONE	/u03/webint/mtstst/interface/out	File path for Outbound Orders .
MTS_PRODUCT_RELEASE	SYSTEM	NONE	85	MTS Product RELEASE
MTS_PRODUCT_VERSION	SYSTEM	NONE	10.7.6	MTS Product Version
OMS_ACTUALS_MANDATORY	SYSTEM	NONE	BOTH	Governs which ACTUAL_QUANTITY fields require mandat
OMS_ORDER_ARCH_DEL_DAYS	SYSTEM	NONE	180	Number of days that archived Order Audit messages will b
ORD_QUANTITY_DU_FIELDS_FORMAT	SYSTEM	NONE	999999	Default quantity and pallet fields format mask
ORD_QUANTITY_PALLET_FIELDS_FOF	SYSTEM	NONE	999999.000	Default quantity and pallet fields format mask
PARAGON_IMPORT_LAYOUT	COST_CENTRE	BGWASTECC	BGW Par Imp	Paragon Import Layout
PARAGON_INSTALLED	COST_CENTRE	BGWASTECC	BGW	Version of Paragon Installed
PARAGON_INSTALLED	COST_CENTRE	STL	STL	Paragon Installed ? - YES or NO. Only one of MTM_INSTA

At the bottom of the window are four buttons: Configure, Delete, Save, and Close.



3 Functional Description

3.1 Paragon Export

Two new drop down lists for commodity type and vehicle type will be added to the Exports tab of the Paragon Interface screen. A suggested layout is shown below.

The screenshot displays the Paragon Export interface. At the top, there are tabs for 'Order Export', 'Trip Import', and 'XML Trip Import'. Below these is the 'New Export' section, which contains several dropdown menus: 'Schedule' (SCHD_NAME), 'Cost Centre' (COST_CENTRE), 'Customer' (CUSTOMER), 'Group Name' (SCHD_GROUP), 'Order Type' (ORD_TYPE), and 'From Loc' (FROM_LOC). Two new dropdowns, 'Commodity Type' (COMMODITY_TYP) and 'Vehicle Type' (VEHICLE_TYPE), are highlighted with a red oval. To the right of these fields are 'Export' and 'Reset New' buttons. Below the 'New Export' section is the 'Export History' table, which has columns for User, Export Date, Status, Sched, Customer, Cost Centre, Sched Grp, Error, Sent File Name, Show File, and Failures. The table contains 15 rows of data, all showing 'NO_FILE_NAME' in the 'Sent File Name' column and 'Failures' in the 'Failures' column.

The commodity drop down will be built using the value of the DU_TYPE column from the Despatch Unit data table (RES_DESPATCH_UNIT_TYPE). The list of values will include all DU types set up on the C-TMS database as well as the value ?MIXED.? so that mixed commodities orders can be selected for export. The vehicle type drop down will be populated from the TRAILER_TYPE column of the Trailer's data table (RES_TRAILER_TYPE). Both of these columns are optional but if populated must be selected from the list.

The information contained will then be used to build the appropriate query to extract the data. The commodity type will be stored in the PRODUCT_TYPE column on the Order header table (SCH_ORD). The vehicle type will be stored in the VEHICLE_TYPE column on the Order header table (SCH_ORD). As the integration with Paragon for Network Rail does not have any specific export layout requirement the standard interface format will be implemented.

3.2 Paragon Import

As the integration with Paragon for Network Rail does not have any specific import layout requirement the standard interface format will be implemented and no further change will be required.

Table Updates Required

None

Modules to be changed

Module Name Module Type Notes



PAR_INT.fmb Form Add commodity and vehicle to extracts

References

Ref No	Document Title & ID	Version	Date
1	EST-291363 MS-8KNGTX Paragon for Rail	0.1	16/09/11

Glossary

Term or Acronym	Meaning
C-TMS	Calidus TMS

Document History

Version	Date	Status	Reason	Initials
0.1	12/10/11	Draft	Initial version	CAK
1.0	12/10/11	Issued	Reviewed and Issued	MJC



4 AUTHORISED BY

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