

**292356 v1.0**

Aptean Ltd  
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DHL C-TMS

# C-TMS Data Export

FUNCTIONAL SPECIFICATION - 10.7

17/10/2011 - 1.0  
Reference: 292356 - PM8LZMTU



## 1.1 Client Requirement

C-TMS data export to feed into MIS (MS Access).

## 1.2 Solution

To facilitate off-line statistics and KPI reporting, C-TMS will be developed to provide a specific data export for Project Gamma. The data export will be uploaded into MS Access and DHL will develop an MIS solution around this data source.

The file will be created automatically by a C-TMS batch job that will be configured to run as required either daily or weekly.

The batch job will interrogate the transport data in C-TMS and create a tab delimited output file with .xls filename extension. The file will be saved in the exports archive folder and will be configured to be emailed to a list of email recipients.

Data will be selected for all trips created within the previous x days, x being a parameter that will be set into the configuration of the batch job.

The filename created will also be a parameter that will be configured into the batch job.

Note that the output can be configured to run from many different batch jobs each with different parameters. This means that for example an output for the last day could be generated daily as batch job A and then an output for the last week could be generated weekly as batch job B.

The output data will include trip, trip stop, order and order detail information. For each order, the trip and stop level data will be repeated in the output data file. The data will be sequenced by schedule date, owning depot then route code.

## 1.3 Scope

This change will be applied to system version 10.7



## 2 Set-up

### 2.1 Pre-requisites

None

### 2.2 Menu Structure

Unchanged

### 2.3 Data

Unchanged

### 2.4 Implementation Advice

EDI jobs will need to be set up in the EDI maintenance screen with the correct parameters and email recipients

The screenshot shows the 'EDI Maintenance' window with the following fields and controls:

- Process Name:** BEN\_DOOD
- Filename Format:** BS\_DOOD\_TST\_
- Customer:** OPENFIELD
- Cost Centre Code:** OPENFIELDCC
- Location:** (empty)
- Direction:** Outbound
- Flow Type:** EXPORT
- Frequency Type:** Regular Interval
- Interval Length:** 10 Hours
- Status:** Stopped
- Last Run Date:** (empty)
- Next Run Date:** (empty)
- Buttons:** Start, Stop, Save, Cancel, Close, Params, Output
- Checkboxes:** Send DEL message, Send ARR Message
- Delivery Folder:** /webint/indtst/export
- Archive Folder:** /webint/indtst/export/archive
- Failures Folder:** /webint/indtst/export/failures
- Acknowledgement Folder:** (empty)
- Buttons:** New, Delete
- Checkboxes:** Send ACK?



## 3 Functional Description

### 3.1 Data Export

A new data extract ?TRIP\_AND\_ORDER\_EXT? will be developed.

The extract will be run from the EDI maintenance screen and example of which is displayed below.

The screenshot shows the 'EDI Maintenance' window with the following fields and controls:

- Process Name:** BEN\_DOOD
- Filename Format:** BS\_DOOD\_TST\_
- Customer:** OPENFIELD
- Cost Centre Code:** OPENFIELDCC
- Location:** (empty)
- Direction:** Outbound
- Flow Type:** EXPORT
- Frequency Type:** Regular Interval
- Interval Length:** 10 Hours
- Status:** Stopped
- Last Run Date:** (empty)
- Next Run Date:** (empty)
- Buttons:** Start, Stop, Save, Cancel, Close, Params, Output
- Checkboxes:** Send DEL message, Send ARR Message
- Delivery Folder:** /webint/indtst/export
- Archive Folder:** /webint/indtst/export/archive
- Failures Folder:** /webint/indtst/export/failures
- Acknowledgement Folder:** (empty)
- Buttons:** New, Delete
- Checkboxes:** Send ACK?

The interval length value can be used to control the frequency of the extract. The extract will require parameters to control the file name and the date range. An example of parameters is shown below.



EDI Maintenance

Process Name: BEN\_DOOD  
 Filename Format: BS\_DOOD\_TST\_  
 Customer: OPENFIELD  
 Cost Centre Code: OPENFIELDCC  
 Direction: Outbound  
 Frequency Type: Regular Interval  
 Interval Length: 10 Hours  
 Location:   
 Flow Type: EXPORT

Save Cancel Close

Process Trigger Types

Triggers Parameters Report Values

Title	Name	Value
Export Name	EXPORT	DP_CSV_DOOD.DOOD_RPT
	FILE_EXTENSION	xls
	i_customer	OPENFIELD
	i_sched_from	SYSSCHED-120
	i_sched_to	SYSSCHED+120

New Delete Close Save

Send ACK?

The parameters can then be used to control the data extracted. Any number of jobs can be set up in this way and the parameter information varied for each job. The email recipients of the job can be set up by clicking the Output button and entering the details as shown below.



Action MTS Modules Administration Edit Help Window

DEVICE\_WIN

E-Mail	Fax	Contact	FTP IP	FTP Port	FTP User	FTP Password	FTP Folder
ben.sharp@dhl.com							

New Delete Close Save

Status: Stopped

Last Run Date:  Next Run Date:

Start Stop

Delivery Folder:

Archive Folder:

Failures Folder:

Acknowledgement Folder:  ☐ Send ACK?

New Delete

Multiple email addresses can be stored against a job.

The extract will interrogate the C-TMS data and extract the following information

#### Export Field

Cost Centre  
Schedule Date  
Owning Depot  
Route Code  
Tractor  
Trailer  
Driver  
Vehicle Type  
Driver Type  
Start ODO  
End ODO  
Planned Km?s  
Actual Km?s  
Planned Hours  
Actual Hours  
Trailer Type  
Trailer Capacity  
Trip ID  
Trip Status  
Stop Identifier  
Stop ID  
Stop Sequence

#### C-TMS field

SCH\_TRIP.cost\_centre  
SCH\_TRIP.sched\_name  
SCH\_TRIP.owning\_depot  
SCH\_TRIP.route\_code  
SCH\_TRIP.tractor\_id  
SCH\_TRIP.trailer\_id  
RES\_PERSON.firstname surname or SCH\_TRIP.external\_driver depending on driver type  
RES\_TRAILER\_CARRIER\_GROUP.name  
RES\_PERSON.agency or SCH\_TRIP.external driver columns  
SCH\_TRIP.odo\_start  
SCH\_TRIP.odo\_end  
SCH\_TRIP.distance  
Derived using SCH\_TRIP\_STOP values  
Derived using SCH\_TRIP\_STOP values  
Derived using SCH\_TRIP\_STOP values  
RES\_TRAILER\_TYPE.trailer\_type  
RES\_TRAILER\_TYPE.max\_rpe  
SCH\_TRIP.trip\_id  
SCH\_TRIP.trip\_status  
SCH\_TRIP\_STOP.stop\_type  
SCH\_TRIP\_STOP.stop\_id  
SCH\_TRIP\_STOP.stop\_no





Stop Location ID	SCH_TRIP_STOP.location_id
Stop Location Name	GEO_LOCATION.location_name
Stop Location Town	GEO_LOCATION.town
Stop Location Postcode	GEO_LOCATION.postcode
Stop Planned Arrival Date & Time	SCH_TRIP_STOP.arrive
Stop Planned Departure Date & Time	SCH_TRIP_STOP.depart
Stop Actual Arrival Date & Time	SCH_TRIP_STOP.actual_arrive
Stop Actual Departure Date & Time	SCH_TRIP_STOP.actual_depart
Stop PID	New field
Planned Km?s from prev stop	SCH_TRIP_STOP.distance_from_prev_stop
Actual Km?s from prev stop	SCH_TRIP_STOP.distance_from_prev_stop
Activity Load/Unload	SCH_HAULAGE_ACTIVITY.activity_name
Initial Load Collection	?Y? or ?N? Derived from trip data
Final Unload Delivery	?Y? or ?N? Derived from trip data
Order Transaction Date	SCH_ORD.created_date
SO Ref	SCH_ORD.external_ref
PO Ref	SCH_ORD.
Order Status	SCH_ORD.status
Early Avail Date & Time	SCH_ORD.early_avail
Late Avail Date & Time	SCH_ORD.late_avail
Early Delivery Date & Time	SCH_ORD.early_del
Late Delivery Date & Time	SCH_ORD.late_del
Address Location ID from	SCH_ORD.from_loc
Address Location Name From	GEO_LOCATION.location_name
Address Location Town From	GEO_LOCATION.town
Address Location Postcode From	GEO_LOCATION.postcode
Address Location Id to	SCH_ORD.to_loc
Address Location Name to	GEO_LOCATION.location_name
Address Location Town to	GEO_LOCATION.town
Address Location Postcode to	GEO_LOCATION.postcode
Item identifier	SCH_ORD_ITEMS.item_identifier
Item description	SCH_ORD_ITEMS.item_description
Stack Factor	SCH_ORD_ITEMS.stack
Item Factor	SCH_ORD_ITEMS.item_factor
Weight	SCH_ORD_ITEMS.weight
Ordered item Qty	SCH_ORD_ITEMS.qty_ordered
Ordered Qty Stacks	SCH_ORD_ITEMS.stack
Ordered Qty baskets	Calculated field derived from qty_ordered
Ordered Qty Loose units	Calculated field derived from qty_ordered
Actual Qty Units	SCH_ORD_ITEMS.qty_delivered
Actual Qty Stacks	SCH_ORD_ITEMS.stack
Actual Qty Baskets	Calculated field derived from qty_delivered
Actual Qty Loose units	Calculated field derived from qty_delivered
Reason Code	SCH_ORD_ITEMS_REASONS.reason_code
Reason Description	SCH_REASON_CODE.description
Reason Comment	SCH_ORD_ITEMS_REASONS.reason_comments

The values held within the syssched\_from and syssched\_to parameters will be used to control the trips extracted. The output data will include trip, trip stop order and order detail information. For each order the data will be repeated in the output file. The data will be sequenced by schedule date, owning depot and then route code. The file will be created tab delimited, the filename will be controlled by the input parameter and will have an ?.xls? file extension.

The file will be saved in the location specified in the delivery folder of the EDI job. The file should then be emailed to all of the specified email recipients of the job.



**Table Updates Required**

None

**Modules to be changed****Module Name   Module Type   Notes**

DP_CSV5.sql	Package	Add new functionality
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**References**

Ref No	Document Title & ID	Version	Date
1	EST-292356 PM-8LZMTU C-TMS data export	1.0	12/10/11

**Glossary**

Term or Acronym	Meaning
C-TMS	Calidus TMS

**Document History**

Version	Date	Status	Reason	Initials
0.1	14/10/11	Draft	Initial version	CAK
0.2	17/10/11	Draft	Reviewed	MJC
1.0	17/10/11	Issue	Issued	MJC



## 4 AUTHORISED BY

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