Aptean

BI Data Extract Guide

Calidus TMS - 11.47

15/11/23 - 2.0
Reference: INTERFACE

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1 Customer Onboarding Interface

This guide is intended to show the use and functionality of the customer onboarding webservice.

1.1 Basic webservice method

A webservice endpoint will be available similar to the following:

```
http://{ip or domain or URL):{port}/orawsv/MTS_OWNER/DP_CTMS_IMPORT/IMPORT_CUSTOMER
```

Sample request:

```
<soapenv:Envelope xmlns:soapenv=http://schemas.xmlsoap.org/soap/envelope/ xmlns:imp=http://xmlns.oracle.com
  <soapenv:Header/>
  <soapenv:Body>
     <imp:CXMLTYPE-IMPORT_CUSTOMERInput>
        <imp:CTMS_CUST-XMLTYPE-IN>
           <!?CONTENT -->
        </imp:CTMS_CUST-XMLTYPE-IN>
     </imp:CXMLTYPE-IMPORT_CUSTOMERInput>
  </soapenv:Body>
</soapenv:Envelope>
```

Sample Response:

```
<soap:Envelope xmlns:soap=http://schemas.xmlsoap.org/soap/envelope/>
  <soap:Body>
     <IMPORT_CUSTOMEROutput xmlns=http://xmlns.oracle.com/orawsv/MTS_OWNER/DP_CTMS_IMPORT/IMPORT_CUSTOMER>
        <RETURN>
           <CTMS_IMPORT_CUSTOMER_RESPONSE RESULT="NAK">
              <RESULTS>
                 <RESULT>
                    <CUSTOMER_ID></CUSTOMER_ID>
                    <STATUS></STATUS><!?SUCCESS|INVALID|FAILED-->
                    <STATUS_MSG>Some success or failure text</STATUS_MSG>
                 </RESULT>
                 <RESULT>
                    <LOCATION_ID></LOCATION_ID>
                    <EXT_REF></EXT_REF>
                    <STATUS></STATUS><!?SUCCESS|INVALID|FAILED-->
                    <STATUS_MSG>Some success or failure text</STATUS_MSG>
                 </RESULT>
              </RESULTS>
           </CTMS_IMPORT_CUSTOMER_RESPONSE>
        </RETURN>
     </IMPORT_CUSTOMEROutput>
  </soap:Body>
</soap:Envelope>
```

1.2 Configuration

An API (import) process must be configured in CTMS.

Import process parameters supported by this webservice method:

- LOC_LOADING_RATE - default if not provided
- LOC_UNLOADING_RATE - default if not provided
- LOC_DEPOT - default if not provided
- LOC_FLEXIPOD - default if not provided
- DEFAULT_COST_CENTRE - default if not provided
- CUST_EPOD_ENABLED - default if not provided
- INSPECT_PERIOD_TYPE - default if not provided
- INSPECT_PERIOD_VALUE - default if not provided
- INSPECT_DATE_FROM - default if not provided

- CUST_TYPE - default if not provided
- CUST_REV_CHARGE_TYPE - default if not provided
- CUST_LOTS_ID - Y or N - whether the customer created will interface events to Aptean Calidus TMS Portal TTM (Track and Trace Module)
- CUST_CURRENCY - default if not provided
- CUST_GROUP_CUSTOMER - Y or N - create a customer associated to the Customer Group provided.
- AUDIT_STATUS - which statuses to audit from the received messages. Values: ALL (default), or a combination of NAK, WAK, ACK.
- AUDIT_METHOD - how to audit messages. Values: WS (default), NONE, FILE
- CUST_LOTS_SEND_ORD - Y or N - if Y, set the customer so that it sends ORD messages to Portal TTM.
- UPDATE_PARAGON_ID - Y or N - if Y, set the Paragon ID to {Customer ID}_{EXT_REF}

Interface Import Decode for type "LOC_DEPOT":

- "BILLING" - "HO"

This table allows for configuration of location types provided in the interface to Aptean CTMS location types.

1.3 Content Format

Content is XML.

1.3.1 Customer Section

This is the main section - only 1 CUSTOMER tag may be sent per message.

This is the details of the customer being created.

Once processed, the system will have created the following:

- Customer record
- Group for the customer
- Financial Account record
- Invoicing Requirements
- Shared Currency

Fields allowed within the CUSTOMER tag are:

Field	Size	Default	Req	Notes
CUSTOMER_ID	VARCHAR2(12)		Y	Must be provided
CUSTOMER_NAME	VARCHAR2(50)		Y	Must be provided
CONTACT_NAME	VARCHAR2(50)		O	
CUST_GROUP	VARCHAR2(12)		O	If provided, a customer group will be created if it does not exist. If provided, a customer group must exist. If configured, the system will create the customer group from an identified customer (i.e. parent customer). If neither, an error is raised.
COST_CENTRE_NAME	VARCHAR2(12)		O	If not provided and a default exists, defaults to that value. If a default does not exist, raises an errorthis is left blank
VAT_COUNTRY	VARCHAR2(3)		O	If provided, must exist
VAT_REG_NO	VARCHAR2(50)		O	
COUNTRY	VARCHAR2(3)		Y	REQUIRED, MUST EXIST
TYPE	VARCHAR2(12)	"CUSTOMER"	O	If not provided and a default exists, defaults to that value. If a default does not exist, raises an error
ORDER_REVENUE_CHARGING_TYPE_ID	NUMBER	6		

Field	Size	Default	Req	Notes
				If not provided and a default exists, defaults to that value. If a default does not exist, raises an error
STD_INSTR	VARCHAR2(4000)		O	Any standard instructions for the customer
FREE_TEXT1	VARCHAR2(255)		O	
FREE_TEXT2	VARCHAR2(255)		O	
FREE_TEXT3	VARCHAR2(255)		O	
FREE_TEXT4	VARCHAR2(255)		O	
FREE_TEXT5	VARCHAR2(255)		O	
ACCOUNT_ON_HOLD	VARCHAR2(1)	"N"	O	Will default if not provided.
ACC_CURRENCY_USAGE	VARCHAR2(3)		O	If not provided and a default exists, defaults to that value. If a default does not exist, raises an error
ACCOUNT_TYPE	VARCHAR2(30)		O	
PAY_ON_DELIVERY	VARCHAR2(1)		O	"N" - Not forced payment, "C" - cash only, "Y" - any (cash/cheque/card)
COLLECT_CASINGS	VARCHAR2(1)		O	
NETWORK_AVAILABLE	VARCHAR2(1)		O	
GEO_LOCATIONS			O	Subsection below

1.4 Location Section

The locations section describes locations that are to be created that belong to that customer. This can be delivery locations, head office locations, invoice addresses, or any other location type configured in Aptean CTMS.

Sub-section GEO_LOCATIONS is populated with a list of GEO_LOCATION tags, populated as follows:

Field	Size	Default	Req	Notes
LOCATION_ID	VARCHAR2(12)		O	This or EXT_REF must be provided. See notes.
DEPOT	VARCHAR2(12)	"BRANCH"	O	If not provided and a default exists, defaults to that value. If a default does not exist, raises an error
LOCATION_NAME	VARCHAR2(50)		Y	
EXT_REF	VARCHAR2(50)		O	This or LOCATION_ID must be provided. See notes.
ADDRESS_LINE1	VARCHAR2(50)		Y	
ADDRESS_LINE2	VARCHAR2(50)		O	
ADDRESS_LINE3	VARCHAR2(50)		O	
TOWN	VARCHAR2(50)		O	
COUNTY	VARCHAR2(50)		O	
COUNTRY_CODE	VARCHAR2(3)		Y	Must exist
POSTCODE	VARCHAR2(9)		Y	Must be provided, not blank
PHONE	VARCHAR2(50)		O	
FAX	VARCHAR2(50)		O	
LOADING_RATE	VARCHAR2(12)	"DEFAULT"	O	If not provided and a default exists, defaults to that value. If a default does not exist, raises an error. Note that, if the location already exists and has rate already set against it, and this rate is not provided in the message, the rate will *not* be overwritten by the default value parameter.
UNLOADING_RATE	VARCHAR2(12)	"DEFAULT"	O	If not provided and a default exists, defaults to that value. If a default does not exist, raises an error. Note that, if the location already exists and has rate already set against it, and this rate is not provided in the message, the rate will *not* be overwritten by the default value parameter.

Field	Size	Default	Req	Notes
RESPONSIBLE_COST_CENTRE	VARCHAR2(50)		O	If not provided and a default exists, defaults to that value. If a default does not exist, raises an error.
COST_CENTRE_NAME	VARCHAR2(12)		O	If not provided and a default exists, defaults to that value. If a default does not exist, raises an error.
EXT_LOCATION_NAME	VARCHAR2(50)		O	External Location Name
COMMENTS	VARCHAR2(255)		O	
GEO_LOCATION_USAGE			O	Subsection below
GEO_CONTACTS			O	Subsection below
GEO_LOCATION_WINDOWS			O	Subsection below

Note: A failure to process this section will not cause a failure of the customer or the entire message - the customer will still be added. The response will indicate if there is any issue in creating these details as a warning.

1.4.1 Location Usage Section

This section defines how the locations are owned within the system.

This section is optional - if omitted, the process will use the system defaults for location usage.

Sub-section GEO_LOCATION_USAGE is populated as follows:

Field	Size	Default	Req	Notes
USAGE_TYPE	VARCHAR2(12)	"CUSTOMER"	O	If provided, validated as a valid value. Valid values "CUSTOMER", "CUSTOMER_GROUP". If not provided, defaults to "CUSTOMER"
USAGE_ID	VARCHAR2(12)		Y	Set to customer ID or Customer Group

Note: A failure to process this section will not cause a failure of the location or the entire message - the customer and location will still be added. The response will indicate if there is any issue in creating these details as a warning.

1.4.2 Contacts Section

This section defines the location contacts.

This section is optional.

Sub-section GEO_CONTACTS is populated with a list of GEO_CONTACT tags, populated as follows:

Field	Size	Default	Req	Notes
SURNAME	VARCHAR2(50)		O	SURNAME or FORENAME must be provided.
FORENAME	VARCHAR2(50)		O	SURNAME or FORENAME must be provided
JOB_TITLE	VARCHAR2(50)		O	
PHONE	VARCHAR2(50)		O	
EMAIL	VARCHAR2(100)		O	
TITLE	VARCHAR2(12)		O	

Note: A failure to process this section will not cause a failure of the location or the entire message - the customer and location will still be added. The response will indicate if there is any issue in creating these details as a warning.

1.4.3 Location Windows Section

This section defines location opening times per day.

This section is optional - if not provided, the location is assumed to be open on all days.

Sub-section GEO_LOCATION_WINDOWS is populated with a list of GEO_LOCATION_WINDOW tags, populated as follows:

Field	Size	Default	Req	Notes
DAY	NUMBER		Y	1-7 where 1 is Sunday
OPENING_TIME	NUMBER		Y	
CLOSING_TIME	NUMBER		Y	

Note: A failure to process this section will not cause a failure of the location or the entire message - the customer and location will still be added. The response will indicate if there is any issue in creating these details as a warning.

1.5 Sample XML structure

```
<?xml version="1.0" encoding="UTF-8"?>
<CALIDUS_XML>
<EVENT>
<EVENT_HEADER>
   <EVENT_PROCESSED>N</EVENT_PROCESSED>
   <EVENT_SOURCE_TYPE>CDE</EVENT_SOURCE_TYPE>
   <EVENT_SOURCE_NAME>SYSTEM</EVENT_SOURCE_NAME>
   <EVENT_DATE>2021-07-21T08:20:28</EVENT_DATE>
   <EVENT_TYPE>CUST</EVENT_TYPE>
   <EVENT_ACTION>C</EVENT_ACTION>
</EVENT_HEADER>
<EVENT_DETAIL>
 <CUSTOMER>
   <CUSTOMER_ID></CUSTOMER_ID>
   <CUSTOMER_NAME></CUSTOMER_NAME>
   <CONTACT_NAME></CONTACT_NAME>
   <CUST_GROUP></CUST_GROUP>
   <COST_CENTRE_NAME></COST_CENTRE_NAME>
   <VAT_COUNTRY></VAT_COUNTRY>
   <VAT_REG_NO></VAT_REG_NO>
   <COUNTRY></COUNTRY>
   <TYPE></TYPE>
   <ORDER_REVENUE_CHARGING_TYPE_ID></ORDER_REVENUE_CHARGING_TYPE_ID>
   <STD_INSTR></STD_INSTR>
   <FREE_TEXT1></FREE_TEXT1>
   <FREE_TEXT2></FREE_TEXT2>
   <FREE_TEXT3></FREE_TEXT3>
   <FREE_TEXT4></FREE_TEXT4>
   <FREE_TEXT5></FREE_TEXT5>
   <ACCOUNT_ON_HOLD></ACCOUNT_ON_HOLD>
   <ACC_CURRENCY_USAGE></ACC_CURRENCY_USAGE>
        <ACCOUNT_TYPE></ACCOUNT_TYPE>
        <PAY_ON_DELIVERY></PAY_ON_DELIVERY>
        <COLLECT_CASINGS></COLLECT_CASINGS>
        <NETWORK_AVAILABLE></NETWORK_AVAILABLE>
        <GEO_LOCATIONS>
                <GEO_LOCATION>
                        <LOCATION_ID></LOCATION_ID>
                        <DEPOT></DEPOT>
                        <LOCATION_NAME></LOCATION_NAME>
                        <EXT_REF></EXT_REF>
                        <ADDRESS_LINE1></ADDRESS_LINE1>
                        <ADDRESS_LINE2></ADDRESS_LINE2>
                        <ADDRESS_LINE3></ADDRESS_LINE3>
                        <TOWN></TOWN>
                        <COUNTY></COUNTY>
                        <COUNTRY_CODE></COUNTRY_CODE>
                        <POSTCODE></POSTCODE>
                        <PHONE></PHONE>
                        <FAX></FAX>
                        <LOADING_RATE></LOADING_RATE>
                        <UNLOADING_RATE></UNLOADING_RATE>
                        <RESPONSIBLE_COST_CENTRE></RESPONSIBLE_COST_CENTRE>
                        <COST_CENTRE_NAME></COST_CENTRE_NAME>
                        <EXT_LOCATION_NAME></EXT_LOCATION_NAME>
                        <COMMENTS></COMMENTS>
                        <GEO_LOCATION_USAGE>
                                <USAGE_TYPE></USAGE_TYPE>
                                <USAGE_ID></USAGE_ID>
                        </GEO_LOCATION_USAGE>
                        <GEO_CONTACTS>
                                <GEO_CONTACT>
                                        <SURNAME></SURNAME>
                                        <FORENAME></FORENAME>
```

```
                                        <JOB_TITLE></JOB_TITLE>
                                        <PHONE></PHONE>
                                        <EMAIL></EMAIL>
                                        <TITLE></TITLE>
                                </GEO_CONTACT>
                                <GEO_CONTACT>
                                        <SURNAME></SURNAME>
                                        <FORENAME></FORENAME>
                                        <JOB_TITLE></JOB_TITLE>
                                        <PHONE></PHONE>
                                        <EMAIL></EMAIL>
                                        <TITLE></TITLE>
                                </GEO_CONTACT>
                        </GEO_CONTACTS>
                        <GEO_LOCATION_WINDOWS>
                                <GEO_LOCATION_WINDOW>
                                        <DAY></DAY>
                                        <OPENING_TIME></OPENING_TIME>
                                        <CLOSING_TIME></CLOSING_TIME>
                                </GEO_LOCATION_WINDOW>
                                <GEO_LOCATION_WINDOW>
                                        <DAY></DAY>
                                        <OPENING_TIME></OPENING_TIME>
                                        <CLOSING_TIME></CLOSING_TIME>
                                </GEO_LOCATION_WINDOW>
                        </GEO_LOCATION_WINDOWS>
                  </GEO_LOCATION>
                <GEO_LOCATION>
                        <LOCATION_ID></LOCATION_ID>
                        <DEPOT></DEPOT>
                        <LOCATION_NAME></LOCATION_NAME>
                        <EXT_REF></EXT_REF>
                        <ADDRESS_LINE1></ADDRESS_LINE1>
                        <ADDRESS_LINE2></ADDRESS_LINE2>
                        <ADDRESS_LINE3></ADDRESS_LINE3>
                        <TOWN></TOWN>
                        <COUNTY></COUNTY>
                        <COUNTRY_CODE></COUNTRY_CODE>
                        <POSTCODE></POSTCODE>
                        <PHONE></PHONE>
                        <FAX></FAX>
                        <LOADING_RATE></LOADING_RATE>
                        <UNLOADING_RATE></UNLOADING_RATE>
                        <RESPONSIBLE_COST_CENTRE></RESPONSIBLE_COST_CENTRE>
                        <COST_CENTRE_NAME></COST_CENTRE_NAME>
                        <EXT_LOCATION_NAME></EXT_LOCATION_NAME>
                        <COMMENTS></COMMENTS>
                        <GEO_LOCATION_USAGE>
                                <USAGE_TYPE></USAGE_TYPE>
                                <USAGE_ID></USAGE_ID>
                        </GEO_LOCATION_USAGE>
                        <GEO_LOCATION_WINDOWS>
                                <GEO_LOCATION_WINDOW>
                                        <DAY></DAY>
                                        <OPENING_TIME></OPENING_TIME>
                                        <CLOSING_TIME></CLOSING_TIME>
                                </GEO_LOCATION_WINDOW>
                                <GEO_LOCATION_WINDOW>
                                        <DAY></DAY>
                                        <OPENING_TIME></OPENING_TIME>
                                        <CLOSING_TIME></CLOSING_TIME>
                                </GEO_LOCATION_WINDOW>
                        </GEO_LOCATION_WINDOWS>
                </GEO_LOCATION>
        </GEO_LOCATIONS>
 </CUSTOMER>
</EVENT_DETAIL>
</EVENT>
</CALIDUS_XML>
```

1.6 General Notes

- Customer ID is 12 characters and cannot be increased
- The type is "CUSTOMER" but can be configured to default to this.

- The cost centre can be defaulted.
- The order revenue charging type ID can be defaulted.
- The currency usage will be defaulted to "GBP" unless provided.
- The "HO" address provided for a customer will be identified as the home address and the customer will be updated with that address.
- LOCATION_ID or EXT_REF must be provided. If this is not, the file will be rejected. The value of LOCATION_ID provided will be used in preference to EXT_REF and used to retrieve the location if it already exists. If LOCATION_ID is not provided, EXT_REF will be used to retrieve the location if it already exists. Either LOCATION_ID or EXT_REF must uniquely identify a location.

1.7 Responses

Sample Response:

```
<soap:Envelope xmlns:soap=http://schemas.xmlsoap.org/soap/envelope/>
  <soap:Body>
     <IMPORT_CUSTOMEROutput xmlns=http://xmlns.oracle.com/orawsv/MTS_OWNER/DP_CTMS_IMPORT/IMPORT_CUSTOMER>
        <RETURN>
           <CTMS_IMPORT_CUSTOMER_RESPONSE RESULT="NAK">
              <RESULTS>
                 <RESULT>
                    <CUSTOMER_ID></CUSTOMER_ID>
                    <STATUS></STATUS><!?SUCCESS|INVALID|FAILED-->
                    <STATUS_MSG>Some success or failure text</STATUS_MSG>
                 </RESULT>
                 <RESULT>
                    <LOCATION_ID></LOCATION_ID>
                    <EXT_REF></EXT_REF>
                    <STATUS></STATUS><!?SUCCESS|INVALID|FAILED-->
                    <STATUS_MSG>Some success or failure text</STATUS_MSG>
                 </RESULT>
              </RESULTS>
           </CTMS_IMPORT_CUSTOMER_RESPONSE>
        </RETURN>
     </IMPORT_CUSTOMEROutput>
  </soap:Body>
</soap:Envelope>
```

A CTMS_IMPORT_CUSTOMER_RESPONSE tag will include a RSULT indicator, showing the basic status of the message:

- ACK - Acknowledged, processed successfully.
- WAK - Warning, but Acknowledged, partially processed.
- NAK - Not acknowledged - for failed/invalid, not processed at all.

A RESULT section will be included for the Customer and each location that was provided in the interface.

A status and status message will be included in each RESULT section, along with primary and secondary key values, for alignment by the sending system.

Note: This is not an exhaustive list, simply indicative of the types of responses that may be received.

RESULT attribute	STATUS tag	STATUS_MSG tag
ACK	SUCCESS	Customer created.
ACK	SUCCESS	Customer updated.
NAK	INVALID	Customer not created - X not provided (where X is the field not provided)
NAK	INVALID	Customer not created - X not provided (no default exists). (where X is the field not provided)
NAK	FAILED	Customer not created - database failure (X) (where X is the database error message)
NAK	FAILED	Customer not created - Customer Group X does not exist (where X is the provided customer group)
ACK	SUCCESS	Location created.
ACK	SUCCESS	Location updated.

RESULT attribute	STATUS tag	STATUS_MSG tag
WAK	INVALID	Location not created - X not provided. (where X is the field not provided)
WAK	INVALID	Location not created - X not provided (no default exists). (where X is the field not provided)
WAK	FAILED	Location not created - database failure (X) (where X is the database error message)
WAK	INVALID	Location not created - Neither location nor external reference provided
WAK	FAILED	Location usage not created (appended to Location created/updated message).
WAK	SUCCESS	Some contacts have not been created. (appended to Location created/updated message).
WAK	SUCCESS	Some windows have not been created. (appended to Location created/updated message).

2 FleXipod Interface

This guide shows how the Aptean Proof of Delivery system (APOD or formerly FleXipod) can be configured to be used from CTMS.

This require configuration as to when messages are sent, how they are formatted (the FleXipod attributes), at what level are messages sent (orders, stops, etc) and what information is expected to be received.

2.1 Configuration

2.1.1 System Parameters

Parameter	Description	Config By
FLEXIPOD	Set to Y to indicate the FlexiPod interface is active	SYSTEM
FLEXIPOD_ACID	Flexipod acid	SYSTEM
FLEXIPOD_BREAK_DROPS	Flexipod include breaks for the drops in the Add API call (Y/N)	SYSTEM
FLEXIPOD_CARRIERS	Set to Y indicates the Carrier can control if a trip is sent to FlexiPod	SYSTEM
FLEXIPOD_CLIENTNUM	FleXipod ClientNum sent in interface	SYSTEM
FLEXIPOD_CONSOLIDATE_APOD	Flexipod consolidate the drops in the API calls (Y/N)	SYSTEM
FLEXIPOD_CONSOLIDATE_APOD_REF	Flexipod consolidate the orders for the drops as the OMS reference or a type of customer reference (OMS/CUST/BOOK/DEL)	SYSTEM
FLEXIPOD_DEPOTS	Set to Y indicates the Depot can control if a trip is sent to FlexiPod	SYSTEM
FLEXIPOD_DEPOT_DEPART_ACTION	Flexipod Depot Depart Action (Y/N)	SYSTEM
FLEXIPOD_DEPOT_RETURN_ACTION	Flexipod Depot Return Action (Y/N)	SYSTEM
FLEXIPOD_DIRECT	Set to Y to indicate the FlexiPod interface is direct and not using Route Execution	SYSTEM
FLEXIPOD_DROP	Determines the Drop level STOP-OMS or ITEM	SYSTEM
FLEXIPOD_END_OF_TRIP_ACTION	Flexipod End of Trip Action (Y/N)	SYSTEM
FLEXIPOD_EXPIRY	Sets the expiry date for the manifest as a number of days after the end of the trip.	SYSTEM
FLEXIPOD_EXTERNALSYSTEMUPDATE	Flexipod process the External System Update messages in the API call (Y/N)	SYSTEM
FLEXIPOD_FORCEITEMSCAN	Force the items to be scanned separately: 0 to use the ScanLevel or 1 to force the scan by item.	SYSTEM
FLEXIPOD_LISTPENDINGMANIFESTS	Flexipod process the List Pending Manifest Update messages in the API call (Y/N)	SYSTEM
FLEXIPOD_MERGE_DROPS	Flexipod merge the orders on the drop in the Add API call (Y/N)	SYSTEM
FLEXIPOD_PASSWORD	FleXipod Webservice password	SYSTEM
FLEXIPOD_PREDEPARTURE_ACTION	Controls whether the system Flexipod Pre-Departure Action get sent as part of the manifest (Y/N)	SYSTEM
FLEXIPOD_PROXY	Flexipod proxy server	SYSTEM
FLEXIPOD_READDROP	Flexipod process the Read Drop messages in the API call (Y/N)	SYSTEM
FLEXIPOD_SCAN_LEVEL	1,2 or 3 to indicate line or item level scanning	SYSTEM
FLEXIPOD_SCAN_TYPE	Contents and items	SYSTEM
FLEXIPOD_SIGNATORY	Set to Y to store the SignedByName as the actual signatory as information for the order at its collection of delivery location	SYSTEM
FLEXIPOD_SPLIT	Are orders to be split?	SYSTEM
FLEXIPOD_SYSTEM	FleXipod SYSTEM ID sent in interface	SYSTEM
FLEXIPOD_TIMEZONE	Flexipod timezone for the UpdateManifests API calls	SYSTEM
FLEXIPOD_TPCLIENTNUM	FleXipod TPClientNum sent in interface	SYSTEM
FLEXIPOD_UNALLOCATED_DRIVER	FleXipod uses an unallocated driver when one is not assigned to a trip	SYSTEM
FLEXIPOD_UPDATE_MANIFESTS	FleXipod use UpdateManifests to add manifests (Y/N)	SYSTEM

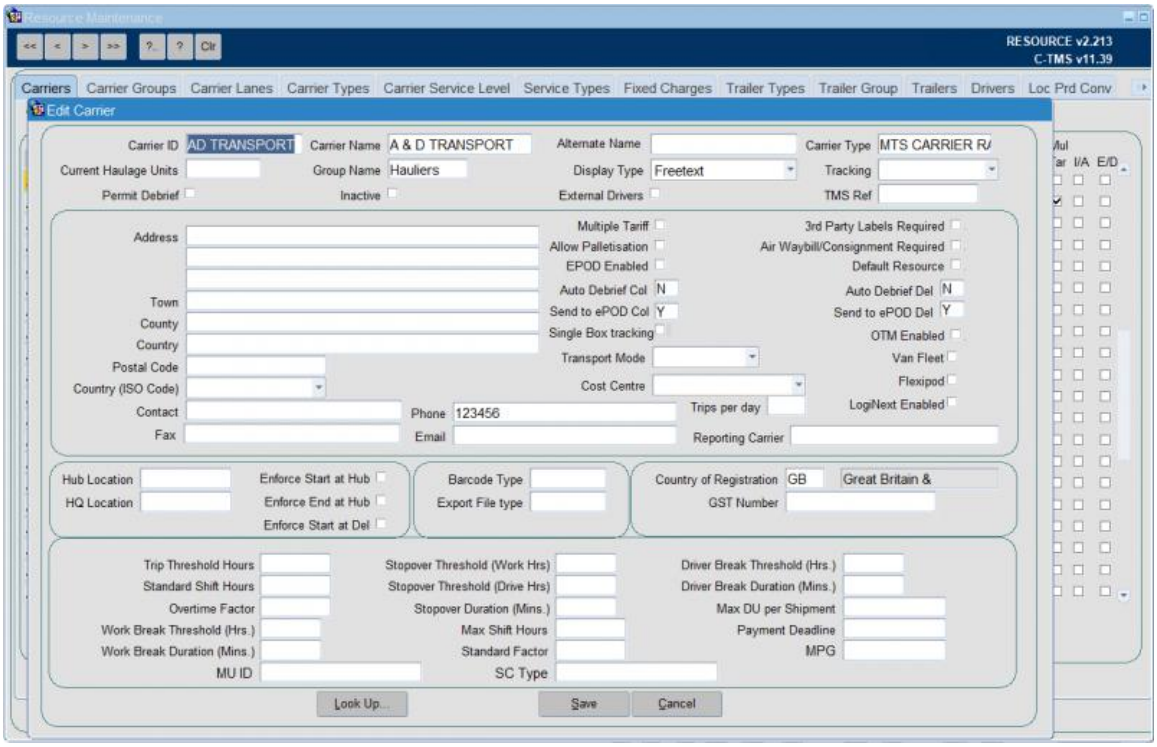
Parameter	Description	Config By
FLEXIPOD_USERCODE	FleXipod webservice usercode	SYSTEM
FLEXIPOD_USERNAME	FleXipod webservice username	SYSTEM
FLEXIPOD_WEBSERVICE	Flexipod webservice endpoint URL	SYSTEM
FLEXIPOD_WEBSERVICE_TASK	Flexipod webservice endpoint URL for Tasks	SYSTEM
FLEXIPOD_WEBSERVICE_UI	Flexipod webservice endpoint URL	SYSTEM
FLEXIPOD_WEBSERVICE_UI_EXEC	Flexipod webservice endpoint URL for Route Execution	SYSTEM
FLEXIPOD_X_API_KEY	Flexipod x-api-key for External System Update messages	SYSTEM
FLEXIPOD_TENNANT	?	SYSTEM
FLEXIPOD_TENNANT_KEY1	?	SYSTEM

Key:

- red: no longer in use
- green: in use
- amber: in use, but not defined

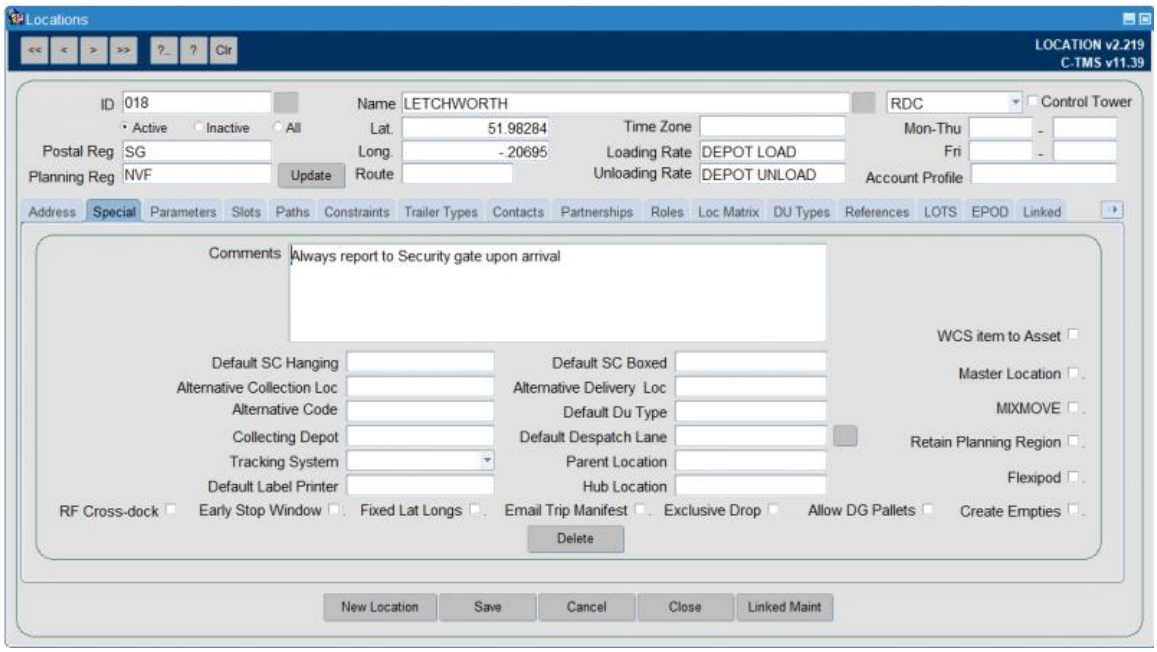
2.1.2 Carrier

The FLEXIPOD flag must be enabled when configured by carrier (system parameter FLEXIPOD_CARRIERS) for carriers that require the use of FlexiPOD.



2.1.3 Depot Locations

The FLEXIPOD flag must be enabled when configured by depot (system parameter FLEXIPOD_DEPOTS) for depots that require the use of FlexiPOD.



2.1.4 EDI Processes

FLEXIPOD_OUT

This process sends the triggered manifests to APOD.

- Flow Type: PROCESS
- Package Name: PROCESS, DP_FLEXIPOD.PROCESS_FLEXIPOD_OUT
- Process: i_process_name FLEXIPOD_OUT
- Interval: 5 minutes

FLEXIPOD_SENDLISTPENDING

This process checks to see if there are any pending updates from the manifests and imports the details.

- Flow Type: PROCESS
- Package Name: PROCESS DP_FLEXIPOD.send_listpendingmanifestupdates
- Process: PROCESS FLEXIPOD_SENDLISTPENDING
- Interval: 1 minute

2.1.5 Reason Codes and Decodes

A decode of name "FLX_RESULT_CODES" type "REFERENCE" must be configured to map all of the reason codes from APOD into CTMS.

Several ITEM_NON_CON reason codes must be created to map to the APOD reason codes.:

Examples:

APOD	CTMS	Description	At Fault	Action	Type	CBR
1	SD	Successful Delivery				
10	SD	Successful Delivery				
2	FV	Failed Visit			FAILURE	Y
3	SD	Successful Delivery				
4	UD	Unsuccessful Delivery			FAILURE	
5	SC	Successful Collection				
6	SJ	Skipped Job			FAILURE	Y
7	NR	No Longer Required			FAILURE	

APOD	CTMS	Description	At Fault	Action	Type	CBR
8	PR	Payment Refused				

Plus any reason codes created in FlexiPOD must be created within TMS for the audit history to accurately represent any reasons selected by the driver.

Note: For each implementation, the reason codes and numbers will differ. For example, 1 and 10 may not be "Successfully Delivered", so the decode mapping MUST be in place for the APOD interface.

2.1.6 Attribute Configuration

Attributes against Manifests, Drops and Items can be configured by your Aptean implementation team. Up to **Warning**: 10 attributes may be defined at each level except Drop, which may contain 20 attributes.

In general, the following is allowed at each level:

- Manifest
  - Information derived directly from the trip, such as route code, trailer type, driver, etc.
- Drop
  - Information derived from the transport order header, such as the main references, instructions
  - Information derived from the customer of the transport order, such as parameters against that customer.
  - Any sub-reference held against that transport order.
  - Any sub-reference held against the transport order's destination location.
- Item
  - Information derived from the order items.
  - Order Reference information
  - Any references from the Drop above
  - **Note:** Including Quarantine status through the order reference STATUS)

An example is below:

Project Name	Level	Number	Source	Target
Stapletons	Drop	1	so.booking_ref	
Stapletons	Drop	2	so.del_point_ref	
Stapletons	Drop	3	dp_flexipod.get_order_val("ORDER","PRICE",	
Stapletons	Drop	4		
Stapletons	Drop	5		
Stapletons	Drop	6	dp_flexipod.get_ref("LOCATION","PERMIT_NUMBER",	
Stapletons	Drop	7	oc.free_text1	
Stapletons	Drop	8	dp_flexipod.get_ref("LOCATION","UNITARY_AUTHORITY",	
Stapletons	Drop	9	dp_flexipod.get_ref("LOCATION","LICENCE_NUMBER",	
Stapletons	Drop	10	so.total_weight	
Stapletons	Drop	11	so.total_pieces	
Stapletons	Drop	12	oc.pay_on_delivery	
Stapletons	Drop	13	oc.collect_casings	
Stapletons	Drop	14		
Stapletons	Drop	15		
Stapletons	ItemAttributes	1	soi.du_type	
Stapletons	ItemAttributes	2	soi.weight	
Stapletons	ItemAttributes	3	dp_flexipod.get_order_val("ITEM","UNIT_WEIGHT",	
Stapletons	ItemAttributes	4	dp_flexipod.get_order_val("ITEM","UNIT_PRICE",	
Stapletons	ItemAttributes	5	dp_flexipod.get_order_val("ITEM",'STATUS",	
Stapletons	Manifest	1	st.route_code	
Stapletons	Manifest	2	st.trailer_type	

Warning: You MUST use double-quotes when specifying attributes to dp_flexipod functions such as dp_flexipod.get_order_val.

2.2 Sending Trips to FlexiPOD

This happens automatically when:

- the trip is set to status "ACCEPTED" or "EN-ROUTE"
- when any changes happen to the trip i.e. orders are added, removed or moved on a trip that is at those statuses.
- When the driver, carrier or tractor has been added or changed on a trip that is at those statuses.

The send to APOD has many parameters that affect it, which allow such functionality as:

- Consolidating all orders on a stop
- The scan level (pallets, contents, items only.
- Controlling whether pre-departure jobs are sent
- Controlling whether depot departure jobs are sent
- Controlling whether breaks are sent
- Controlling whether depot return jobs are sent
- Controlling whether end of trip jobs are sent

2.3 Actions Taken on Update

Gets updates from FleXipod drops and processes them

Marks message as collected

Stores order references

- TrackingID
- TrackingURL
- JobReportName

Stores signatory and filename if present

- As ord_information
- As References
    - SignedByName
    - SignedByFilename
    - SiteImageFilename

If item details provided:

- Updates stop Actual Arrive and Actual Depart

- If scan_type = 'I' (per scanned deliverable item)
    - Creates Order Item Reasons from decoded reason code for actions against the drops and items (such as successful delivery, etc).
    - Creates Order Item Reasons from decoded reason code if there are non-conformities
    - Updates item delivered quantities
    - Updates order line quantities
    - Updates POC/POD flag against the order

- If scan_type = 'P' (per scanned deliverable item)
    - Same for each item in the pallet.

If event_name = 'Pre-Departure'

- Updates SU (start-up) stop actual arrive

If event_name = 'Depot Depart'

- Updates SU (start-up) stop actual arrive and actual depart
- Sets the trip status

- Updates items as despatched
- Updates lines as despatched
- Validates the order

If event_name = 'Depot Return'

- Updates CL (close-down) stop actual arrive

If event_name = 'End of Trip'

- Updates CL (close-down) stop actual arrive and actual depart
- Sets the trip status

For all order updates:

- Change order status to DELIVERED if anything delivered
- Change order status to FAILED if nothing delivered

Note: All changes to order are audited.

3 Overview

3.1 Introduction

This document is designed to give a brief overview of integration methods into and out of the Aptean TMS - Calidus Edition (CTMS) for transport orders.

The transport orders can be created in CTMS from external systems using XML files based on a standard XSD file format for CTMS called 'TripOrder'.

The following sections will describe some of the sections that are available in the XSD file to create and amend transport orders.

The same XSD file format is used for files being sent by CTMS to external systems to provided information about the transport orders in CTMS and how they have been, or will be, transported between depots and sites.

4 XML Inbound Order File Structure

4.1 EDI Maintenance

The XML files for CTMS will be received into a directory structure and processed as may be specified in the 'EDI Maintenance' screen.

Multiple EDI flows may be active to process XML files from different source systems with different filename formats as required.

There are various EDI parameters that can be set to provide different levels of validation of the data that is extracted from the file.

There are also EDI parameters that can be used to set default values for when the data is not able to be provided in the file.

For example, the order time windows can be recalculated and the hazardous data can be defaulted.

4.2 TripOrder File

```
<OBS_XML>
  <EVENT>
  <EVENT_HEADER>
  <EVENT_DETAIL>
```

The overall file structure consists of two complex type elements - the file header information and then the details. Each element must only exist once per file.

The different sections within <OBS_XML> can occur differently, the data in bold type is included in the text. **Note:** Not all of the sections and elements that are available in the XSD file format are listed, just the most common use cases:

```
<OBS_XML> 1.1 <EVENT>
<EVENT> 1.1 <EVENT_HEADER>
 <EVENT_HEADER> 1.1 <ALL ELEMENTS>
 <EVENT> 0.00 <EVENT_DETAIL>
 <EVENT_DETAIL> 1.1 <TRIP_HEADER>
  <TRIP_HEADER> 1.1 <TRIP_IDENTIFIER>
  <TRIP_HEADER> 0.1 <TRIP_TRANSACTION_DATE>
  <TRIP_HEADER> 0.1 <TRIP_ID>
 <EVENT_DETAIL> 0.1 <TRIP_DETAIL>
 <EVENT_DETAIL> 0.1 <STOPS>
  <STOPS> 1.00 <STOP>
   <STOP> 1.1 <STOP_HEADER>
    <STOP_HEADER> 1.1 <STOP_IDENTIFIER>
    <STOP_HEADER> 0.1 <STOP_ID>
    <STOP_HEADER> 0.1 <STOP_SEQ>
   <STOP> 0.1 <STOP_DETAIL>
   <STOP> 0.1 <ORDERS>
    <ORDERS> 1.1 <ORDER>
     <ORDER> 1.1 <ORDER_HEADER>
      <ORDER_HEADER> 1.1 <ORDER_TRANSACTION_DATE>
      <ORDER_HEADER> 0.1 <ORDER_TYPE>
      <ORDER_HEADER> 0.1 <WMS_WAREHOUSE>
      <ORDER_HEADER> 0.1 <WMS_OWNER>
      <ORDER_HEADER> 0.1 <SO_REF>
      <ORDER_HEADER> 0.1 <TMS_REF>
      <ORDER_HEADER> 0.1 <PO_REF>
      <ORDER_HEADER> 0.1 <BOOK_REF>
      <ORDER_HEADER> 0.1 <BOOK_DATE>
      <ORDER_HEADER> 0.1 <SPECIAL_INSTR>
      <ORDER_HEADER> 0.1 <ORDER_COMMENTS>
      <ORDER_HEADER> 0.1 <ORDER_HEADER_TMS>
       <ORDER_HEADER_TMS> 1.1 <EARLY_AVAIL_DATE>
       <ORDER_HEADER_TMS> 1.1 <LATE_AVAIL_DATE>
       <ORDER_HEADER_TMS> 1.1 <EARLY_DEL_DATE>
       <ORDER_HEADER_TMS> 1.1 <LATE_DEL_DATE>
       <ORDER_HEADER_TMS> 0.1 <TMS_GROUP_NAME>
       <ORDER_HEADER_TMS> 0.1 <TMS_DELIVERY_TYPE>
       <ORDER_HEADER_TMS> 0.1 <TMS_COST_CENTRE>
```


```
  <ORDER_HEADER_TMS> 0.1 <HAULIER>
  <ORDER_HEADER_TMS> 0.1 <TRANSPORT_MODE>
 <ORDER_HEADER> 0.1 <ORDER_HEADER_ADDRESSES>
  <ORDER_HEADER_ADDRESSES> 1.00 <ORDER_HEADER_ADDRESS>
   <ORDER_HEADER_ADDRESS> 1.1 <ADDRESS_TYPE>
   <ORDER_HEADER_ADDRESS> 1.1 <ADDRESS_ID>
   <ORDER_HEADER_ADDRESS> 0.1 <ADDRESS_NAME>
   <ORDER_HEADER_ADDRESS> 0.1 <ADDRESS_LINE1>
   <ORDER_HEADER_ADDRESS> 0.1 <ADDRESS_LINE2>
   <ORDER_HEADER_ADDRESS> 0.1 <ADDRESS_LINE3>
   <ORDER_HEADER_ADDRESS> 0.1 <ADDRESS_TOWN>
   <ORDER_HEADER_ADDRESS> 0.1 <ADDRESS_COUNTY>
   <ORDER_HEADER_ADDRESS> 0.1 <ADDRESS_COUNTRY_CODE>
   <ORDER_HEADER_ADDRESS> 0.1 <ADDRESS_POSTCODE>
   <ORDER_HEADER_ADDRESS> 0.1 <ADDRESS_LOC_TYPE>
   <ORDER_HEADER_ADDRESS> 0.1 <ADDRESS_CUST_GROUP>
   <ORDER_HEADER_ADDRESS> 0.1 <OH_ADDRESS_CONTACTS>
    <OH_ADDRESS_CONTACTS> 1.00 <OH_ADDRESS_CONTACT>
     <OH_ADDRESS_CONTACT> 0.1 <ALL ELEMENTS>
 <ORDER_HEADER> 0.1 <CUSTOMER_ID>
 <ORDER_HEADER> 0.1 <CUSTOMER_NAME>
<ORDER> 0.1 <ORDER_SUB_REFS>
 <ORDER_SUB_REFS> 1.1 <ORDER_SUB_REF>
  <ORDER_SUB_REF> 1.1 <SUB_REF_IDENTIFIER>
  <ORDER_SUB_REF> 1.1 <SUB_REFERENCE>
<ORDER> 0.1 <ORDER_DETAILS>
 <ORDER_DETAILS> 1.1 <ORDER_DETAIL>
  <ORDER_DETAIL> 1.1 <DETAIL_TYPE>
  <ORDER_DETAIL> 0.1 <DETAIL_ID>
  <ORDER_DETAIL> 0.1 <PRODUCT_TYPE>
  <ORDER_DETAIL> 0.1 <PRODUCT_TYPE_DESC>
  <ORDER_DETAIL> 0.1 <DU_TYPE>
  <ORDER_DETAIL> 1.1 <ITEM_IDENTIFIER>
  <ORDER_DETAIL> 0.1 <ITEM_DESCRIPTION>
  <ORDER_DETAIL> 0.1 <PALLET_ID>
  <ORDER_DETAIL> 0.1 <ITEM_AKA_CODE>
  <ORDER_DETAIL> 0.1 <ITEM_FACTOR>
  <ORDER_DETAIL> 0.1 <LIFTS>
  <ORDER_DETAIL> 0.1 <RPE_QTY>
  <ORDER_DETAIL> 0.1 <WEIGHT>
  <ORDER_DETAIL> 0.1 <VOLUME>
  <ORDER_DETAIL> 0.1 <ORDERED>
  <ORDER_DETAIL> 0.1 <TO_DELIVER>
  <ORDER_DETAIL> 0.1 <DELIVERED>
  <ORDER_DETAIL> 0.1 <PLANNED_CASES>
  <ORDER_DETAIL> 0.1 <LENGTH>
  <ORDER_DETAIL> 0.1 <WIDTH>
  <ORDER_DETAIL> 0.1 <HEIGHT>
  <ORDER_DETAIL> 0.1 <COMMODITY_ID>
  <ORDER_DETAIL> 0.1 <CLASS_ID>
<ORDER> 0.1 <ORDER_HAZARDOUS_DETAILS>
 <ORDER_HAZARDOUS_DETAILS> 1.00 <ORDER_HAZARDOUS_DETAIL>
  <ORDER_HAZARDOUS_DETAIL> 0.1 <ALL ELEMENTS>
```

The XML items have the following definitions in the XSD file format:

Item	Type	Size	Restriction	CTMS Mandatory*
EVENT_PROCESSED	STRING	1	E,N,Y	Y
EVENT_SOURCE_TYPE	STRING	4	New Value	Y
EVENT_SOURCE_NAME	STRING	10		Y
EVENT_DATE	DATETIME			Y
EVENT_TYPE	STRING	3		Y
EVENT_ACTION	STRING	1	A,C,D	Y
TRIP_IDENTIFIER	STRING	1	O,T	Y
TRIP_TRANSACTION_DATE	DATETIME			
TRIP_ID	STRING	12		
STOP_IDENTIFIER	STRING	1	O,S	Y
STOP_ID	STRING	51		
STOP_SEQ	INTEGER	6		
ORDER_TRANSACTION_DATE	DATETIME			Y
ORDER_TYPE	STRING	1		

Item	Type	Size	Restriction	CTMS Mandatory*
WMS_WAREHOUSE	STRING	3		
WMS_OWNER	STRING	12		Y
SO_REF	STRING	20		Y
TMS_REF	STRING	20		
PO_REF	STRING	20		
BOOK_REF	STRING	20		
BOOK_DATE	DATETIME			
SPECIAL_INSTR	STRING	2000		
ORDER_COMMENTS	STRING	2000		
EARLY_AVAIL_DATE	DATETIME			Y
LATE_AVAIL_DATE	DATETIME			Y
EARLY_DEL_DATE	DATETIME			Y
LATE_DEL_DATE	DATETIME			Y
TMS_GROUP_NAME	STRING	12		
TMS_DELIVERY_TYPE	STRING	35		
TMS_COST_CENTRE	STRING	12		Y
HAULIER	STRING	12		
TRANSPORT_MODE	STRING	30		
ADDRESS_TYPE	STRING	3		Y
ADDRESS_ID	STRING	25		Y
ADDRESS_NAME	STRING	50		
ADDRESS_LINE1	STRING	50		
ADDRESS_LINE2	STRING	50		
ADDRESS_LINE3	STRING	50		
ADDRESS_TOWN	STRING	50		
ADDRESS_COUNTY	STRING	50		
ADDRESS_COUNTRY_CODE	STRING	3		
ADDRESS_POSTCODE	STRING	9		
ADDRESS_LOC_TYPE	STRING	12		
ADDRESS_CUST_GROUP	STRING	12		
ADDRESS_CONTACT_TYPE	STRING	1	L,O	
ADDRESS_CONTACT_FORENAME	STRING	50		
ADDRESS_CONTACT_SURNAME	STRING	50		
ADDRESS_CONTACT_NUMBER	STRING	50		
ADDRESS_EMAIL	STRING	100		
ADDRESS_CONTACT_JOB	STRING	50		
CUSTOMER_ID	STRING	12		
CUSTOMER_NAME	STRING	50		
SUB_REF_IDENTIFIER	STRING	50		Y
SUB_REFERENCE	STRING	512		Y
DETAIL_TYPE	STRING	1	D,S	Y
DETAIL_ID	STRING	30		
PRODUCT_TYPE	STRING	12		
PRODUCT_TYPE_DESC	STRING	50		Y
DU_TYPE	STRING	12		
ITEM_IDENTIFIER	STRING	20		Y
ITEM_DESCRIPTION	STRING	122		
PALLET_ID	STRING	100		
ITEM_AKA_CODE	STRING	30		
ITEM_FACTOR	STRING	12		
LIFTS	DECIMAL	8,2		
RPE_QTY	DECIMAL	10,2		
WEIGHT	DECIMAL	10,2		

Item	Type	Size	Restriction	CTMS Mandatory*
VOLUME	DECIMAL	15,5		
ORDERED	DECIMAL	28,4		
TO_DELIVER	DECIMAL	28,4		
DELIVERED	DECIMAL	28,4		
PLANNED_CASES	INTEGER	8		
LENGTH	DECIMAL	10,2		
WIDTH	DECIMAL	10,2		
HEIGHT	DECIMAL	10,2		
COMMODITY_ID	STRING	256		
CLASS_ID	STRING	256		
UN_NUMBER	STRING	50		Y
HAZARDOUS_QTY	DECIMAL	28,4		Y
HAZARDOUS	STRING	1	N,Y	Y
HAZARDOUS_DESCRIPTION	STRING	40		Y

- The mandatory flag for CTMS is only valid if the optional section has been provided in the file.

Note that an item quantity must be provided as 'ORDERED' or 'TO_DELIVER' depending which item is being used (as set by an EDI parameter).

4.2.1 Event Header <EVENT_HEADER>

```
<EVENT_HEADER>
  <EVENT_PROCESSED>N</EVENT_PROCESSED>
  <EVENT_SOURCE_TYPE>SAGE</EVENT_SOURCE_TYPE>
  <EVENT_SOURCE_NAME>SAGE</EVENT_SOURCE_NAME>
  <EVENT_DATE>2015-05-31T12:52:13</EVENT_DATE>
  <EVENT_TYPE>ORD</EVENT_TYPE>
  <EVENT_ACTION>C</EVENT_ACTION>
</EVENT_HEADER>
```

The header section describes the fact that an event has occurred. Each event must generally create a new file and this complex type element must not repeat within the file.

Each of the simple type elements outlined above is mandatorily required.

The <EVENT_PROCESSED> is expected to have a value of 'N'.

The <EVENT_SOURCE_TYPE> must be setup as a recognised source system within CTMS, within the System Configuration screen, Sources tab.

Although a number of <EVENT_TYPE> values can be received it is the 'ORD' event type which represents a transport order to be created or amended in CTMS, the <EVENT_ACTION> value of 'C' (for 'C'reate) will ensure a new order is generated, an event action value of 'A' (for 'A'mend) will update an order, and an event action value of 'D' (for 'D'elete) will delete an order.

Validation will exist to check that the transport order can be created, amended or deleted as directed.

The <EVENT_DATE> simple element must be in the format 'YYYY-MM-DDTHH:MI:SS'

4.2.2 Event Detail <EVENT_DETAIL>

```
<EVENT_DETAIL>
    <TRIP_HEADER>
    <STOPS>
       <STOP>
         <STOP_HEADER>
         <ORDERS>
            <ORDER>
               <ORDER_HEADER>
```


```
    <ORDER_DETAILS>
    <ORDER_HAZARDOUS_DETAILS>
</ORDER>
```

The event detail section consists of complex type elements representing the 'Trip' - a CTMS planned transport movement representing a vehicle with one or more transport orders to one or more location.

The trip can have several 'stops' (a geographical location visited) against which one or more 'orders' can be handled for loading or unloading the vehicle at each stop.

Therefore, the <STOPS> and <ORDERS> may contain multiple stops and transport orders that exist on the trip.

4.2.3 Trip Header <TRIP_HEADER>

```
<TRIP_HEADER>
  <TRIP_IDENTIFIER>O</TRIP_IDENTIFIER>
</TRIP_HEADER>
```

The 'ORD' event type does not require trip header information, although this complex type is mandatory in the file, it is exempted by denoting the <TRIP_IDENTIFIER> with 'O' to represent that the file contains order data only.

The order data received is denoted as an 'unplanned' order, that is it has not been built into a vehicle movement and routed through one or more load and unload activities. This planning activity is handled within CTMS.

4.2.4 Stops <STOPS>

```
<STOPS>
  <STOP>
    <STOP_HEADER>
      <STOP_IDENTIFIER>O</STOP_IDENTIFIER>
    </STOP_HEADER>
```

The ORD event type does not require any trip stop information and although the complex type is mandatory it is exempted by denoting the <STOP_IDENTIFIER> with 'O' to indicate that the file contains order data only.

4.2.5 Orders <ORDERS>

```
<ORDER>
   <ORDER_HEADER> ... </ORDER_HEADER> [1]
   <ORDER_SUB_REFS> ... </ORDER_SUB_REFS> [0..1]
   <ORDER_DETAILS> ... </ORDER_DETAILS> [0..1]
   <ORDER_HAZARDOUS_DETAILS> ... </ORDER_HAZARDOUS_DETAILS> [0..1]
</ORDER>
```

The orders complex type contains the core information that constitutes a transport order request in CTMS, that is, a unique instruction to collect and deliver a number of goods items of a particular type between two points at requested times.

The <ORDER> element can repeat to represent multiple orders within the same file; however it is recommended best practice when using the ORD event type to receive one per individual XML file.

The structure is made up of complex elements representing the higher level order header information which is none repeating and the lower level order details complex type element which may repeat.

The <ORDER_HEADER> complex type is mandatory and must occur once and only once.

The <ORDER_HEADER> complex type is optional.

The <ORDER_DETAILS> complex type is mandatory for transport orders and can repeat but must occur at least once.

The <ORDER_HAZARDOUS_DETAILS> complex type is optional.

4.2.6 Order Header <ORDER_HEADER>

```
 <ORDER_HEADER>

<ORDER_HEADER>
   <ORDER_TRANSACTION_DATE> ... </ORDER_TRANSACTION_DATE> [1]
   <ORDER_TYPE> ... </ORDER_TYPE> [0..1]
   <WMS_WAREHOUSE> ... </WMS_WAREHOUSE> [0..1]
   <WMS_OWNER> ... </WMS_OWNER> [0..1]
   <SO_REF> ... </SO_REF> [0..1]
   <TMS_REF> ... </TMS_REF> [0..1]
   <PO_REF> ... </PO_REF> [0..1]
   <BOOK_REF> ... </BOOK_REF> [0..1]
   <BOOK_DATE> ... </BOOK_DATE> [0..1]
   <SPECIAL_INSTR> ... </SPECIAL_INSTR> [0..1]
   <ORDER_COMMENTS> ... </ORDER_COMMENTS> [0..1]
   <ORDER_HEADER_TMS> ... </ORDER_HEADER_TMS> [0..1]
   <ORDER_HEADER_ADDRESSES> ... </ORDER_HEADER_ADDRESSES> [0..1]
   <CUSTOMER_ID> ... </CUSTOMER_ID> [0..1]
   <CUSTOMER_NAME> ... </CUSTOMER_NAME> [0..1]
   <ORDER_STATUS> ... </ORDER_STATUS> [0..1]
</ORDER_HEADER>
```

The order header structure represents the high level simple single attributes of the order which exist in isolation, such as references and who the transport order is being conducted on behalf of.

The <ORDER_TRANSACTION_DATE> simple element is mandatory and must be in the format 'YYYY-MM-DDTHH:MI:SS'

The <ORDER_TYPE> simple type element is mandatory and must be received with a value of 'O'.

The <WMS_OWNER> simple type element indicates the customer and must match the customer IDs setup on CTMS, this is a mandatory field.

The <SPECIAL_INSTR> simple type element captures any additional information that is presented to the driver on his hand held delivery device at that may be relevant to the transport planning.

4.2.7 Order Header TMS <ORDER_HEADER_TMS>

```
<ORDER_HEADER_TMS>
  <EARLY_AVAIL_DATE>2015-05-24T17:00:00</EARLY_AVAIL_DATE>
  <TMS_GROUP_NAME>OBS</TMS_GROUP_NAME>
  <TMS_DELIVERY_TYPE>Standard</TMS_DELIVERY_TYPE>
  <TMS_COST_CENTRE>OBS</TMS_COST_CENTRE>
  <TRANSPORT_MODE>ROAD</TRANSPORT_MODE>
```

The order header TMS section contains additional information relevant to the order and is simply an extension to the main order header complex type.

Most of the simple type elements in the section are optional.

The <TMS_DELIVERY_TYPE> is used to receive the service level: this value must be populated and is validated against CTMS master data

The <EARLY_AVAIL_DATE> simple type element is mandatory and will be used to calculate forward the collection/loading date/time window and also the approximate delivery date/time window. It must be in the format 'YYYY-MM-DDTHH:MI:SS'.

The other 3 dates for the order may be omitted because they can be calculated from the early available date that is provided and the delivery type (i.e. service level) of the order, however, the configuration in CTMS (TBC) will determine the required level of data.

All elements in this section are validated against CTMS master data and therefore must match CTMS configuration.

The accepted values in the <TRANSPORT_MODE> simple type element are:

- AIR
- ROAD

This will be validated and the order file rejected if the value does not match.

The <TOTAL_PRICE> element is optional and defines the TOTAL price of the order. If provided and populated, the value must be a valid decimal value, or an error will be raised. If not provided or null, the value will be set to 0.

4.2.8 Order Header Addresses <ORDER_HEADER_ADDRESSES>

```
<ORDER_HEADER_ADDRESSES>
    <ORDER_HEADER_ADDRESS>
    <ORDER_HEADER_ADDRESS>
        <OH_ADDRESS_CONTACTS>
```

An <ORDER_HEADER_ADDRESSES> complex type element must always exist once per order.

It must include two instances of the <ORDER_HEADER_ADDRESS> complex type element, one for the loading/pickup location (i.e. 'DEP' address type) and one for the unloading/drop-off location (i.e. 'DEL' address type).

4.2.9 Order Header Addresses <ORDER_HEADER_ADDRESS>

```
<ORDER_HEADER_ADDRESS>
    <ADDRESS_TYPE>DEP</ADDRESS_TYPE>
    <ADDRESS_ID>OBS</ADDRESS_ID>
    <ADDRESS_NAME>OBS Logistics</ADDRESS_NAME>
    <ADDRESS_LINE1>Southern Gateway</ADDRESS_LINE1>
    <ADDRESS_LINE2>Speke Boulevard</ADDRESS_LINE2>
    <ADDRESS_LINE3></ADDRESS_LINE3>
    <ADDRESS_TOWN>Liverpool</ADDRESS_TOWN>
    <ADDRESS_COUNTY>Merseyside</ADDRESS_COUNTY>
    <ADDRESS_COUNTRY_CODE>GB</ADDRESS_COUNTRY_CODE>
    <ADDRESS_POSTCODE>L24 9HZ</ADDRESS_POSTCODE>
    <ADDRESS_CUST_GROUP>OBS</ADDRESS_CUST_GROUP>
    <OH_ADDRESS_CONTACTS>
```

The <ORDER_HEADER_ADDRESS> complex type element includes the address attributes for either the initial point of collection/loading or the final point of delivery/unloading.

The <ADDRESS_TYPE> simple type element is mandatory and must be either:

- 'DEP' - Indicates that the address represents the initial 'DEP'arture location of the order.
- 'DEL' - Indicates that the address represents the final 'DEL'ivery location of the order.

The <ADDRESS_TOWN> item and <ADDRESS_POSTCODE> elements will not be validated and will be accepted regardless of data content.

The <ADDRESS_ID> item is mandatory and can be sent as a unique account identifier for the sender/recipient or it can be sent with the word 'UNKNOWN' which will allow CTMS to generate this unique address identifier where necessary.

The system will initially cross check the received Address Name and Address Postcode in the order file to see if any locations exist for that address name and postcode (to narrow down the number of records to validate), if so it will identify against all other address attributes (Address lines, town/suburb, county/state, country code) to see if there is an existing EXACT match.

If an existing EXACT address match is found the existing CTMS location code will be used against the received order - as the address detail matches all attributes. If any difference is found a new location is generated with the data received, generating a new location ID in the following format:

- Characters 1 to 8: Characters 1 to 8 from <ADDRESS_NAME>
- Character 9: '-'
- Characters 10 to 12: Sequence number 001 to 999

The location ID generated will be a maximum of 12 characters, for example:

```
<ADDRESS_ID>UNKNOWN<ADDRESS_ID>
<ADDRESS_NAME>OBS Logistics</ADDRESS_NAME>
<ADDRESS_POSTCODE>L24 9HZ</ADDRESS_POSTCODE>
```

Would create location code 'OBS Logi-001'.

Also note that new addresses for existing locations can be provided for each order and new locations can be created for the specific address that may be provided.

Once a location is created it will not be updated via the order upload process, any amendments can be carried out manually or via the import of a 'CSV' file.

New locations will only be created for the address details provided.

4.2.10 Order Header Address Contact <OH_ADDRESS_CONTACT>

```
<OH_ADDRESS_CONTACT>
  <ADDRESS_CONTACT_TYPE>O</ADDRESS_CONTACT_TYPE>
  <ADDRESS_CONTACT_FORENAME>Yard Manager</ADDRESS_CONTACT_FORENAME>
  <ADDRESS_CONTACT_SURNAME></ADDRESS_CONTACT_SURNAME>
  <ADDRESS_CONTACT_NUMBER>0151 123 5678</ADDRESS_CONTACT_NUMBER>
  <ADDRESS_EMAIL>yardmanager@obs.com</ADDRESS_EMAIL>
```

For each address an optional <OH_ADDRESS_CONTACT> complex type element can be received. This element must only occur once for within a <OH_ADDRESS_CONTACT>.

The <ADDRESS_CONTACT_TYPE> simple type element is mandatory where the <OH_ADDRESS_CONTACT> is used and indicates if the contact information is to be permanently associated to the address master data (value 'L') or whether it is only related to that particular address for the instance of that particular order (value 'O'). For this implementation 'O'rder type contacts should always be received.

If there is no contact information for the loading location then this element is not required for the "DEP" address type.

The other simple type elements are optional.

4.2.11 Order Sub-references <ORDER_SUB_REFS>

```
<ORDER_DETAILS>
    <ORDER_SUB_REFS>
        <ORDER_SUB_REF> <ORDER_SUB_REF>
            <SUB_REF_IDENTIFIER> ... </SUB_REF_IDENTIFIER> [1]
            <SUB_REF_IDENTIFIER> ... </SUB_REFERENCE> [1]
        </ORDER_SUB_REF>
    </ORDER_SUB_REFS>
<ORDER_DETAIL>
```

This <ORDER_SUB_REFS> section is optional, and allows you to store additional references for an order.

The section must include at least one instance of the <ORDER_SUB_REF> complex type element.

The <SUB_REF_IDENTIFIER> simple type must match up to a configured order sub-reference type. These are maintained by your system administrator in the CTMS Imports screen, on the Decodes tab, type "XML_REFERENCE". Include the CODE here, not the NAME.

The <SUB_REF_IDENTIFIER> simple type is the value you want to store against that reference. The value can be anything at all, but to 512 characters long. These values are not validated.

You can add as many order sub references as you need for the order.

Note:

- If system parameter USE_XML_ORDER_SUB_REFS is set to "Y", sub references will be automatically generated from lane comments that begin with ORDER_REFS:", followed by a comma-delimited list of sub reference names and values. Otherwise this section will contain the order sub references for this order.
- A sub reference of TRIP_TYPE may be automatically generated based on EDI parameter INC_TRIP_TYPE being

set. In this case, the value may be set to
    - ♦ COL - if the from location is the load location of the trip stop and the load location type is not RDC
    - ♦ TRUNK - if the from location is the load location and the order to location is not the unload location
    - ♦ XDOCK_DEL - if the order to location is equal to the unload location, and there are onward trips.
    - ♦ DIRECT_DEL - if the order to location is equal to the unload location, and there are no onward trips.
- If the sub-ref name DELIVERY_METHOD is present, the value will be translated for the carrier.

Several static sub-references are supported.

The following will automatically store data as order information, for contact purposes:

- SMS_ADDRESS_1
- SMS_ADDRESS_2
- SMS_ADDRESS_3
- SMS_ADDRESS_4
- EMAIL_ADDRESS

Depending on which values you provide here, the order will be stamped with contact preferences:

- E - Email only.
- S - SMS Only
- B - Both

Note: SMS sending from CTMS is supported at additional transaction cost per message.

The reference ORDER_WMS_STATUS may be used to update a source system status against the trip. Values are:

- OPEN STAGED
- IN PROGRESS STAGED
- CLOSED STAGED
- OPEN
- IN PROGRESS
- CLOSED

4.2.12 Order Detail <ORDER_DETAIL>

```
<ORDER_DETAIL>
  <DETAIL_TYPE>S</DETAIL_TYPE>
  <PRODUCT_TYPE_DESC>CANTEEN</PRODUCT_TYPE_DESC>
  <DU_TYPE>20x9</DU_TYPE>
  <ITEM_IDENTIFIER>ABC004783</ITEM_IDENTIFIER>
  <ITEM_DESCRIPTION>CARTON</ITEM_DESCRIPTION>
  <ITEM_AKA_CODE>10*20*30</ITEM_AKA_CODE>
  <LIFTS>1</LIFTS>
  <WEIGHT>5.37</WEIGHT>
  <ORDERED>1</ORDERED>
  <TO_DELIVER>1</TO_DELIVER>
  <LENGTH>10</LENGTH>
  <WIDTH>20</WIDTH>
  <HEIGHT>30</HEIGHT>
  <COMMODITY_ID>DG</COMMODITY_ID>
  <CLASS_ID>2.1</CLASS_ID>
</ORDER_DETAIL>
```

The <ORDER_DETAIL> complex element is mandatory and can repeat but must occur at least once to form a valid CTMS order.

The order details will be used to generate both the individual dispatch box/carton detail (per unique barcode) and also the higher level summary order detail line level.

The <DETAIL_TYPE> simple element is mandatory and must be received as either:

- 'D' - Represents a CTMS order detail line - summary level of the total of unique package types.
- 'S' - Represents a CTMS order detail item - the lowest level entry for each individual carton/box.

Note that the DU types (i.e. for the order lines) and its items, just the DU types (if items are not being recorded) or just the items may be provided.

If just items are provided then the DU types and thus the order lines may be generated automatically for the order based on the types of items that have been provided.

The <PRODUCT_TYPE_DESC> simple element is mandatory and will be validated against CTMS master data to ensure it is a recognised value. An unrecognised or blank value will cause the order upload to fail with applicable validation message recorded.

The <DU_TYPE> simple element is optional and will be validated against CTMS master data to ensure it is a recognised value. An unrecognised will cause the order upload to fail with applicable validation message recorded.

The <ITEM_IDENTIFIER> simple element is mandatory and will not be validated although it must be a maximum of 15 alphanumeric characters.

The <ITEM_DESCRIPTION> and <ITEM_AKA_CODE simple type elements are an optional freetext tags and can be used as required.

One of the <ORDERED> and <TO_DELIVER> simple type elements will be mandatory and must be received with a numeric integer value. This represents the number of items reflected by the <ORDER_DETAIL> segment received

As this is at individual carton/box level then this is expected to always be 1 for this implementation.

The <WEIGHT>, <HEIGHT>, <WIDTH>, <LENGTH> simple type elements are optional.

Note:

- The weight provided is a TOTAL weight of the item or line, not a UNIT weight.
- The height, width and length will be used by CTMS to calculate the carton/box level volume for each order item as per existing standard processing logic.

The <COMMODITY_ID> simple type element is optional and will be validated against CTMS master data to ensure it is a recognised value. An unrecognised value will cause the order upload to fail with applicable validation message recorded.

The <CLASS_ID> simple type element is optional but must be received when a <COMMODITY_ID> element is provided which has a 'Dangerous' flag setting of 'Y' (in CTMS master data setup). The value will be validated against CTMS master data to ensure it is a recognised value. An unrecognised will cause the order upload to fail with applicable validation message recorded.

The <ITEM_PRICE> element is optional and defines the TOTAL price of the item. This applies only to Item detail type lines. If provided and populated, the value must be a valid decimal value, or an error will be raised. If not provided or null, the value will be set to 0.

4.2.13 Order Hazardous Details

```
<ORDER_HAZARDOUS_DETAILS>
   <ORDER_HAZARDOUS_DETAIL>
```

The <ORDER_HAZARDOUS_DETAILS> complex type element is optional and can be provided if required.

If this element is used then one or more <ORDER_HAZARDOUS_DETAIL> complex type elements is mandatorily required.

4.2.14 Order Hazardous Detail

```
            <ORDER_HAZARDOUS_DETAIL>
<UN_NUMBER>1089</UN_NUMBER>
              <HAZARDOUS_QTY>1</HAZARDOUS_QTY>
              <HAZARDOUS>Y</HAZARDOUS>
              <HAZARDOUS_DESCRIPTION>CARBONYL SULFIDE</HAZARDOUS_DESCRIPTION>
            </ORDER_HAZARDOUS_DETAIL>
```


The <ORDER_HAZARDOUS_DETAIL> complex type element and all its simple type elements are mandatory. The elements are not validated against CTMS master data and will be stored as received.

5 XML Outbound Order File Structure

5.1 EDI Maintenance

The XML files from CTMS will be generated and placed into a directory structure and processed as may be specified in the 'EDI Maintenance' screen.

Multiple EDI flows may be active to process XML files at different stages of processing.

There are various EDI parameters that can be set to provide different levels of validation to generate the files.

5.2 TripOrder File

```
<OBS_XML>
 <EVENT>
 <EVENT_HEADER>
 <EVENT_DETAIL>
```

The same XSD file format is used for files from CTMS as per files into CTMS.

These files may contain more data in each section than are required in the inbound order files.

For example, an outbound file may contain data about the trip, its stops, each order on each stop and the DU types and/or items on each order.

Export depends on the events that are being exported, controlled by EDI Parameters on the API EDI process:

- API_ARR
- API_COL
- API_DEL
- API_DEP
- API_ORD
- API_TRP

Additional EDI parameters are also present (described in detail in the following sections):

- INCLUDE_CDATA_TAG - affects variable text data entry from the execution level - should it be wrapped to prevent interface errors?
- SEND_AND_FORGET - affects the basic interface - should the message be sent with no expectation of explicit acknowledgement back from the destination?
- PRINT_STOP_PID
- PRINT_ROUTE_CODE
- INCLUDE_ORDER_STATUS
- SEND_DEL_TYPE_CODE
- EXPORT_SERVICES
- INC_TRIP_TYPE
- INC_TRIP_ACTION
- INC_PACKED_TO_DEL
- INCLUDE_SAP_LINE_NOS
- INCLUDE_REASON_CODES
- INCLUDE_NON_CON_CODES
- INCLUDE_TRACK_REF
- INCLUDE_ITEM_DELIVER
- INCLUDE_REASON_TYPE

Export may also include debrief-level information, depending on the type of event, and where the order is up to.

The Export will be of Trip Type if related to a trip, and Order type (similar to the above) for Order-type events.

Trip type events:

- TRP - any changes to or creation of a trip.
- ARR - Arrival at any stop.
- DEP - departure at any stop.

Order type events:

- ORD - any changes to or creation of an order.
- CAN - if an order is cancelled.
- COL - if an order is collected.
- DEL - if an order is delivered.

In general, trip-type events include everything that an Order-type event would include, but with the following additions:

- TRIP_DETAIL
- STOP_DETAIL
- STOP_SIGNATURE (if LOTS_INC_STOP_SIGNATURE = "Y")
- ORDER_HEADER_TMS

As an indication of what may change, please see the below sections.

5.2.1 TRIP_DETAIL

```
<HAULIER> ... </HAULIER> [0..1]
<HAULIER_NAME> ... </HAULIER_NAME> [0..1]
<HAULIER_TYPE> ... </HAULIER_TYPE> [0..1]
<TRACKING> ... </TRACKING> [1]
<TRIP_SCHEDULE> ... </TRIP_SCHEDULE> [0..1]
<DRIVER> ... </DRIVER> [0..1]
<DRIVER_NAME> ... </DRIVER_NAME> [0..1]
<DRIVER_CONTACT> ... </DRIVER_CONTACT> [0..1]
<TRACTOR> ... </TRACTOR> [0..1]
<TRACTOR_LAT> ... </TRACTOR_LAT> [0..1]
<TRACTOR_LON> ... </TRACTOR_LON> [0..1]
<COST_CENTRE> ... </COST_CENTRE> [0..1]
<TRIP_STATUS> ... </TRIP_STATUS> [0..1]
<TRIP_REF> ... </TRIP_REF> [0..1]
<TRIP_TRAILER_ID> ... </TRIP_TRAILER_ID> [0..1]
<TRIP_TRAILER_TYPE> ... </TRIP_TRAILER_TYPE> [0..1]
<TRIP_DISTANCE> ... </TRIP_DISTANCE> [0..1]
<FUEL_DRAWN> ... </FUEL_DRAWN> [0..1]
<OWNING_DEPOT> ... </OWNING_DEPOT> [0..1]
<CONTAINER_NO> ... </CONTAINER_NO> [0..1]
<SEAL_NO> ... </SEAL_NO> [0..1]
<EFX_NUMBER> ... </EFX_NUMBER> [0..1]
<START_ODOMETER> ... </START_ODOMETER> [0..1]
<END_ODOMETER> ... </END_ODOMETER> [0..1]
<ACTUAL_TRIP_DISTANCE> ... </ACTUAL_TRIP_DISTANCE> [0..1]
<ROUTE_CODE> ... </ROUTE_CODE> [0..1]
<COST_PER_TONNE> ... </COST_PER_TONNE> [0..1]
<COST> ... </COST> [0..1]
<COST_REASON> ... </COST_REASON> [0..1]
<AUDIT_ID> ... </AUDIT_ID> [0..1]
<TRIP_SUB_REFS> ... </TRIP_SUB_REFS> [0..1]
```

Note:

- Carrier will be modified if the carrier type is 3PL. This will be exported in the HAULIER tag.
- TRACKING tag will only be populated from trips that are tracked through Microlise.
- The information sent to MICROLISE is extremely limited in this section.
- ROUTE_CODE will only be populated if the EDI parameter PRINT_ROUTE_CODE is populated or the TRIP_ORDER_XSD_VERS system parameter is "2.5". If the system parameter INCL_ROUTE_CODE is set, then this will be instead populated with the Baxter route code.
- AUDIT_ID is a unique ID appended to the message for external tracking purposes.

5.2.2 TRIP_SUB_REF

```
<TRIP_SUB_REF>
   <SUB_REF_IDENTIFIER> ... </SUB_REF_IDENTIFIER> [1]
   <SUB_REFERENCE> ... </SUB_REFERENCE> [1]
</TRIP_SUB_REF>
```

Note:

- If system parameter INC_TRIP_ACTION is "Y", a trip sub reference will be generated based on the action of the event.

5.2.3 STOP_DETAIL

```
<STOP_REF> ... </STOP_REF> [0..1]
<STOP_TYPE> ... </STOP_TYPE> [0..1]
<STOP_LOCATION_TYPE> ... </STOP_LOCATION_TYPE> [0..1]
<STOP_LOCATION_ID> ... </STOP_LOCATION_ID> [0..1]
<STOP_LOCATION_NAME> ... </STOP_LOCATION_NAME> [0..1]
<STOP_ADDR_LINE1> ... </STOP_ADDR_LINE1> [0..1]
<STOP_ADDR_LINE2> ... </STOP_ADDR_LINE2> [0..1]
<STOP_ADDR_LINE3> ... </STOP_ADDR_LINE3> [0..1]
<STOP_TOWN> ... </STOP_TOWN> [0..1]
<STOP_COUNTY> ... </STOP_COUNTY> [0..1]
<STOP_COUNTRY_CODE> ... </STOP_COUNTRY_CODE> [0..1]
<STOP_POSTCODE> ... </STOP_POSTCODE> [0..1]
<STOP_CONTACT_NAME> ... </STOP_CONTACT_NAME> [0..1]
<STOP_CONTACT_PHONE> ... </STOP_CONTACT_PHONE> [0..1]
<STOP_BREAK_DURATION> ... </STOP_BREAK_DURATION> [0..1]
<STOP_PREV_DIST> ... </STOP_PREV_DIST> [0..1]
<STOP_ACTUAL_PREV_DIST> ... </STOP_ACTUAL_PREV_DIST> [0..1]
<STOP_TRAILER_ID> ... </STOP_TRAILER_ID> [0..1]
<STOP_LAT> ... </STOP_LAT> [0..1]
<STOP_LON> ... </STOP_LON> [0..1]
<STOP_PLANNED_ARRIVAL_DATE> ... </STOP_PLANNED_ARRIVAL_DATE> [0..1]
<STOP_PLANNED_DEPARTURE_DATE> ... </STOP_PLANNED_DEPARTURE_DATE> [0..1]
<STOP_ETA_DATE> ... </STOP_ETA_DATE> [0..1]
<STOP_ETA_AT_DATE> ... </STOP_ETA_AT_DATE> [0..1]
<STOP_EARLIEST_BOOKED_DATE> ... </STOP_EARLIEST_BOOKED_DATE> [0..1]
<STOP_ACTUAL_ARRIVAL_DATE> ... </STOP_ACTUAL_ARRIVAL_DATE> [0..1]
<STOP_ACTUAL_DEPARTURE_DATE> ... </STOP_ACTUAL_DEPARTURE_DATE> [0..1]
<STOP_ODO_READING> ... </STOP_ODO_READING> [0..1]
<STOP_FUEL> ... </STOP_FUEL> [0..1]
<STOP_EMAIL> ... </STOP_EMAIL> [0..1]
<STOP_BARCODE> ... </STOP_BARCODE> [0..1]
<STOP_PID> ... </STOP_PID> [0..1]
<STOP_COUNTRY_NAME> ... </STOP_COUNTRY_NAME> [0..1]
<WAREHOUSE_LOAD> ... </WAREHOUSE_LOAD> [0..1]
```

Note:

- Dates are in XML DateTime format.
- ETA and ACTUAL Dates will be populated from execution-based systems.
- STOP_PID will only be populated for LOTS and CIM flows in one format, or if EDI parameter PRINT_STOP_PID is set to "Y" in a different format. This second format should not be enabled for LOTS interfaces.

5.2.4 STOP_SIGNATURE

This section will only be generated if system parameter LOTS_INC_STOP_SIGNATURE is set to "Y".

```
<STOP_SIGNATURE>
   <SIGNATURE> ... </SIGNATURE> [0..1]
   <SIGNED_BY> ... </SIGNED_BY> [0..1]
</STOP_SIGNATURE>
```


5.2.5 ORDER_HEADER

```
<ORDER_TRANSACTION_DATE> ... </ORDER_TRANSACTION_DATE> [1]
<ORDER_TYPE> ... </ORDER_TYPE> [0..1]
<WMS_WAREHOUSE> ... </WMS_WAREHOUSE> [0..1]
<WMS_OWNER> ... </WMS_OWNER> [0..1]
<SO_REF> ... </SO_REF> [0..1]
<ORIG_SO_REF> ... </ORIG_SO_REF> [0..1]
<TMS_REF> ... </TMS_REF> [0..1]
<PO_REF> ... </PO_REF> [0..1]
<BOOK_REF> ... </BOOK_REF> [0..1]
<BOOK_DATE> ... </BOOK_DATE> [0..1]
<SPECIAL_INSTR> ... </SPECIAL_INSTR> [0..1]
<ORDER_COMMENTS> ... </ORDER_COMMENTS> [0..1]
<ORDER_HEADER_TMS> ... </ORDER_HEADER_TMS> [0..1]
<ORDER_HEADER_ADDRESSES> ... </ORDER_HEADER_ADDRESSES> [0..1]
<ORDER_HEADER_CONFIRM> ... </ORDER_HEADER_CONFIRM> [0..1]
<CUSTOMER_ID> ... </CUSTOMER_ID> [0..1]
<CUSTOMER_NAME> ... </CUSTOMER_NAME> [0..1]
<ORDER_STATUS> ... </ORDER_STATUS> [0..1]
<DESTINATION_ORDER> ... </DESTINATION_ORDER> [0..1]
<DESTINATION_DRIVER> ... </DESTINATION_DRIVER> [0..1]
<DESTINATION_VEHICLE> ... </DESTINATION_VEHICLE> [0..1]
<ORDER_SERVICES> ... </ORDER_SERVICES> [0..1]
```

Note:

- SO_REF will be populated with the External reference of the order. This may be modified to remove any rebooking suffix if system parameter ORD_RBO_PREFIX is set to "Y"
- ORDER_STATUS will only be included if the EDI parameter INCLUDE_ORDER_STATUS is set to "Y". Further, if system parameter INCLUDE_FAILED_ORDERS is set to "Y" and the order status is FAILED, this will be changed to CANCELLED instead.
- DESTINATION_ORDER, DESTINATION_DRIVER and DESTINATION_VEHICLE will only be present if order sub references exist of those names.

5.2.6 ORDER_HEADER_TMS

```
<ORDER_HEADER_TMS>
   <SHIPMENT_ID> ... </SHIPMENT_ID> [0..1]
   <TMS_ORDER_SCHEDULE> ... </TMS_ORDER_SCHEDULE> [0..1]
   <TMS_HAULAGE_ACTIVITY> ... </TMS_HAULAGE_ACTIVITY> [0..1]
   <TMS_HAULAGE_TYPE> ... </TMS_HAULAGE_TYPE> [0..1]
   <EARLY_AVAIL_DATE> ... </EARLY_AVAIL_DATE> [1]
   <LATE_AVAIL_DATE> ... </LATE_AVAIL_DATE> [1]
   <EARLY_DEL_DATE> ... </EARLY_DEL_DATE> [1]
   <LATE_DEL_DATE> ... </LATE_DEL_DATE> [1]
   <TMS_GROUP_NAME> ... </TMS_GROUP_NAME> [0..1]
   <TMS_DELIVERY_TYPE> ... </TMS_DELIVERY_TYPE> [0..1]
   <TMS_COST_CENTRE> ... </TMS_COST_CENTRE> [0..1]
   <SD_TEMP_COMBO> ... </SD_TEMP_COMBO> [0..1]
   <SD_POD_BY> ... </SD_POD_BY> [0..1]
   <KEY_CODE> ... </KEY_CODE> [0..1]
   <REVENUE> ... </REVENUE> [0..1]
   <COST> ... </COST> [0..1]
   <COST_PER_TONNE> ... </COST_PER_TONNE> [0..1]
   <HAULIER> ... </HAULIER> [0..1]
   <TRAILER_TYPE> ... </TRAILER_TYPE> [0..1]
   <ROUTE_CODE> ... </ROUTE_CODE> [0..1]
   <EFX_NUMBER> ... </EFX_NUMBER> [0..1]
   <TRANSPORT_MODE> ... </TRANSPORT_MODE> [0..1]
   <TRANSPORT_STATUS> ... </TRANSPORT_STATUS> [0..1]
   <RPE_QTY> ... </RPE_QTY> [0..1]
   <ACTUAL_RPE_QTY> ... </ACTUAL_RPE_QTY> [0..1]
   <WEIGHT> ... </WEIGHT> [0..1]
   <ACTUAL_WEIGHT> ... </ACTUAL_WEIGHT> [0..1]
   <VOLUME> ... </VOLUME> [0..1]
   <ACTUAL_VOLUME> ... </ACTUAL_VOLUME> [0..1]
   <FOOTPRINT> ... </FOOTPRINT> [0..1]
   <ACTUAL_FOOTPRINT> ... </ACTUAL_FOOTPRINT> [0..1]
   <TOTAL_PRICE> ... </TOTAL_PRICE> [0..1]
</ORDER_HEADER_TMS>
```


Note:

- TMS_DELIVERY_TYPE is set to the full delivery type if the EDI parameter SEND_DEL_TYPE_CODE is set to "Y". Otherwise the short code associated to the delivery type is sent.

5.2.7 ORDER_SERVICES

This section is only populated if the EDI parameter EXPORT_SERVICES is set to "Y", or if this is set to "C" and the event is "CAN" or "DEL".

```
<ORDER_SERVICE>
   <SERVICE_ID> ... </SERVICE_ID> [1]
   <SERVICE_NAME> ... </SERVICE_NAME> [1]
   <SERVICE_QTY> ... </SERVICE_QTY> [1]
   <SERVICE_VALUE> ... </SERVICE_VALUE> [1]
</ORDER_SERVICE>
```

5.2.8 ORDER_DETAIL

The details sent in this section are subject to configuration:

- Order Lines are sent if LOTS_SEND_LINE_ITEMS = "Y", or the value is "N" and there are no order items.
- Order Items are sent if LOTS_SEND_LINE_ITEMS = "Y", or the value is "N" and there are order items.

```
<ORDER_DETAIL>
   <DETAIL_TYPE> ... </DETAIL_TYPE> [1]
   <DETAIL_ID> ... </DETAIL_ID> [0..1]
   <PRODUCT_TYPE> ... </PRODUCT_TYPE> [0..1]
   <PRODUCT_TYPE_DESC> ... </PRODUCT_TYPE_DESC> [0..1]
   <DU_TYPE> ... </DU_TYPE> [0..1]
   <ITEM_IDENTIFIER> ... </ITEM_IDENTIFIER> [1]
   <ITEM_DESCRIPTION> ... </ITEM_DESCRIPTION> [0..1]
   <PALLET_ID> ... </PALLET_ID> [0..1]
   <ITEM_AKA_CODE> ... </ITEM_AKA_CODE> [0..1]
   <ITEM_FACTOR> ... </ITEM_FACTOR> [0..1]
   <LIFTS> ... </LIFTS> [0..1]
   <STACK> ... </STACK> [0..1]
   <RPE_QTY> ... </RPE_QTY> [0..1]
   <ACTUAL_RPE_QTY> ... </ACTUAL_RPE_QTY> [0..1]
   <WEIGHT> ... </WEIGHT> [0..1]
   <ACTUAL_WEIGHT> ... </ACTUAL_WEIGHT> [0..1]
   <VOLUME> ... </VOLUME> [0..1]
   <ACTUAL_VOLUME> ... </ACTUAL_VOLUME> [0..1]
   <FOOTPRINT> ... </FOOTPRINT> [0..1]
   <ACTUAL_FOOTPRINT> ... </ACTUAL_FOOTPRINT> [0..1]
   <ORDERED> ... </ORDERED> [0..1]
   <PACKED> ... </PACKED> [0..1]
   <TO_DELIVER> ... </TO_DELIVER> [0..1]
   <DELIVERED> ... </DELIVERED> [0..1]
   <SAP_LINE_NO> ... </SAP_LINE_NO> [0..1]
   <SHIPMENT_DETAIL> ... </SHIPMENT_DETAIL> [0..1]
   <REASON_CODES> ... </REASON_CODES> [0..1]
   <DIM_WEIGHT> ... </DIM_WEIGHT> [0..1]
   <ACTUAL_DIM_WEIGHT> ... </ACTUAL_DIM_WEIGHT> [0..1]
   <TRACKING_REFS> ... </TRACKING_REFS> [0..1]
   <DU_DESCRIPTION> ... </DU_DESCRIPTION> [0..1]
   <DU_CATEGORY> ... </DU_CATEGORY> [0..1]
   <PLANNED_CASES> ... </PLANNED_CASES> [0..1]
   <ACTUAL_CASES> ... </ACTUAL_CASES> [0..1]
   <SCAN_TYPE> ... </SCAN_TYPE> [0..1]
   <LENGTH> ... </LENGTH> [0..1]
   <WIDTH> ... </WIDTH> [0..1]
   <HEIGHT> ... </HEIGHT> [0..1]
   <COMMODITY_ID> ... </COMMODITY_ID> [0..1]
   <CLASS_ID> ... </CLASS_ID> [0..1]
   <WMS_LOCATION> ... </WMS_LOCATION> [0..1]
   <LONG_DESCRIPTION> ... </LONG_DESCRIPTION> [0..1]
   <ORDER_DETAIL_TYRE> ... </ORDER_DETAIL_TYRE> [0..1]
   <ITEM_PRICE> ... </ITEM_PRICE> [0..1]
```


```
</ORDER_DETAIL>
```

Note:

- DETAIL_TYPE will be "D" if generated from Order Lines, and "S" if generated from Order Items.
- For D lines
  - ITEM_IDENTIFIER will be the DU Type
  - ITEM_DESCRIPTION will the DU Type description for "D" lines
  - RPE_QTY will include Despatched and Packed REP if the EDI Parameter INC_PACKED_TO_DEL is set to "Y", other wise this will just be the Actual RPE and RPE qty.
  - PACKED will be populated if the order has been packed.
  - TO_DELIVER will be populated if the order has been collected.
  - DELIVERED will be present and populated if the order has been delivered to its final destination.
  - SAP_LINE_NO will only be present and populated if the EDI Parameter INCLUDE_SAP_LINE_NOS is "Y" and there is a SAP line number against the order line.
  - REASON_CODES will be included if there are non-conformity reason codes against the order line for the API interface.
  - REASON_CODES will be included for other flows if EDI Parameters INCLUDE_REASON_CODES and INCLUDE_NON_CON_CODES are set. **Warning**: These should NOT be set against the API process.
  - TRACKING_REFS will be included if the EDI Parameter INCLUDE_TRACK_REF is set to "Y".
- For S lines
  - ITEM_IDENTIFIER will be the Item Identifier, unless the customer has specified that an alternative item identifier is used and one is provided against the item. If system parameter USE_PALLET_ID_XML is set to "Y", then the Pallet ID of the item record will be used instead.
  - PALLET_ID will only be populated if system parameter SEND_PALLET_ID_XML is set to "Y".
  - ORDERED will only be present and populated if the value is not null.
  - TO_DELIVER will only be present and populated if the value is null i.e. the order item has been collected.
  - DELIVERED will only be present and populated if the value is not null i.e. the order item has been delivered and EDI parameter INCLUDE_ITEM_DELIVER is set to "Y", or this is sent through the API.
  - SAP_LINE_NO will only be present and populated if the EDI Parameter INCLUDE_SAP_LINE_NOS is "Y" and there is a SAP line number against the order line.
  - REASON_CODES will be included if there are non-conformity reason codes against the order line for the API interface.
  - REASON_CODES will be included for other flows if EDI Parameters INCLUDE_REASON_CODES and INCLUDE_NON_CON_CODES are set. **Warning**: These should NOT be set against the API process.

5.2.9 TRACKING_REFS

TRACKING_REFS will be included if the EDI Parameter INCLUDE_TRACK_REF is set to "Y".

```
<TRACKING_REF>
   <UNIT_TRACKING_REF> ... </UNIT_TRACKING_REF> [1]
   <UNIT_TRACKING_NO> ... </UNIT_TRACKING_NO> [1]
</TRACKING_REF>
```

5.2.10 ORDER_DETAIL_TYRE

For TYRE-based systems

```
<ORDER_DETAIL_TYRE>
        <WPX_PRODUCT_ID> ... </WPX_PRODUCT_ID> [1]
        <POSITION> ... </POSITION> [1]
        <LOCATION> ... </LOCATION> [1]
        <PRICE> ... </PRICE> [1]
        <CUSTOMER_VEHICLE> ... </CUSTOMER_VEHICLE> [1]
        <AUTHORITY_CODE> ... </AUTHORITY_CODE> [1]
        <WORK_TYPE> ... </WORK_TYPE> [1]
        <PRESSURE> ... </PRESSURE> [1]
        <TREAD_DEPTH> ... </TREAD_DEPTH> [1]
        <CASING> ... </CASING> [1]
        <CASING_DESTINATION> ... </CASING_DESTINATION> [1]
        <NEW_REMOULD> ... </NEW_REMOULD> [1]
        <REGROOVED> ... </REGROOVED> [1]
        <TYRE_SERIAL_NO> ... </TYRE_SERIAL_NO> [1]
```


```
        <REMOVAL_REASON> ... </REMOVAL_REASON> [1]
        <WORK_TYPES> ... </WORK_TYPES> [1]
        <SERVICES_SUPPLIED> ... </SERVICES_SUPPLIED> [1]
        <BARCODE> ... </BARCODE> [1]
        <TORQUE> ... </TORQUE> [1]
</ORDER_DETAIL_TYRE>
```

5.2.11 ORDER_REASON_CODE

```
<ORDER_REASON_CODE>
   <RC_TYPE> ... </RC_TYPE> [1]
   <RC_CODE> ... </RC_CODE> [1]
   <RC_DESCRIPTION> ... </RC_DESCRIPTION> [1]
   <RC_COMMENT> ... </RC_COMMENT> [0..1]
</ORDER_REASON_CODE>
```

Note:

- For reason codes included for Order Item non-conformities, RC_TYPE will only be included if EDI parameter INCLUDE_REASON_TYPE is set to "Y", and will always then be "NONC"

5.2.12 ORDER_HEADER_TYRE

For TYRE-based systems

```
<ORDER_HEADER_TYRE>
      <CUSTOMER_VEHICLE> ... </CUSTOMER_VEHICLE> [0..1]
      <AUTHORITY_CODE> ... </AUTHORITY_CODE> [0..1]
</ORDER_HEADER_TYRE>
```

5.2.13 ORDER_VEHICLE

For TYRE-based systems

```
<ORDER_VEHICLE> - for TYRE-based systems only
      <VEHICLE_ID> ... </VEHICLE_ID> [1]
      <MAKE> ... </MAKE> [1]
      <MODEL> ... </MODEL> [1]
      <ODO> ... </ODO> [1]
      <DESCRIPTION> ... </DESCRIPTION> [1]
      <LAST_INSPECTION_DATE> ... </LAST_INSPECTION_DATE> [1]
      <VEHICLE_CONFIG_ID> ... </VEHICLE_CONFIG_ID> [1]
      <VEHICLE_CONFIG> ... </VEHICLE_CONFIG> [1]
      <EPOD_SERVICE_ID> ... </EPOD_SERVICE_ID> [0..1]
</ORDER_VEHICLE>
```

5.3 System Parameters affecting XML Production

System parameters affecting content in TripOrder XML

Parameter	Description	Level
CUST_UPDATE_ORDER_LINES	Update Orders	CUSTOMER
EPOD_SIGNATURE_STORAGE	Store signature received from C-ePOD	COST_CENTRE
IMP_OVERRIDE_SOURCE_REF	Set source system and control additional functionality in ORD_LINE_ITM CSV order import	SYSTEM
INCL_ROUTE_CODE	Include Baxter Route code and delivery method	COST_CENTRE
INCLUDE_FAILED_ORDERS	Include Failed Orders as CANCELLED for API	COST_CENTRE
LOTS_ADD_DEBRIEF	LOTS Additional Debrief Details	COST_CENTRE
LOTS_DEL_CUST_SIGNATORY	Controls if DEL messages for LOTS require an actual signatory - Y to hold messages.	COST_CENTRE
LOTS_INC_ORDER_HEADER_CONFIRM		

Parameter	Description	Level
	Includes the ORDER_HEADER_CONFIRM section in the DEL file for LOTS.	SYSTEM - only LOTS, DEL event
LOTS_INC_STOP_SIGNATURE	Indicates if the STOP_SIGNATURE section will be displayed in the DEL outbound files to LOTS.	SYSTEM - only for LOTSC
LOTS_INC_STOP_TYPE_DESC	Include STOP-TYPE_DESC tag in XML	SYSTEM - ONLY FOR LOTS process
LOTS_SEND_WHEN_VEHICLE_SCANNED	List of LOTS message types that will be held until a vehicle scan is received for the order.	COST_CENTRE
MIC_ADD_STOP_BARCODE	Include new tag STOP_BARCODE on Microlise outbound xml	SYSTEM - only for process MIC
OMS_FOOTPRINT_FOR_VOLUME	Will the footprint of the order line be include in the VOLUME item for the outbound XML file for the despatch units instead of the cubic volume (Y/N)?	COST_CENTRE
ORD_NO_DEL_FOR_FAILS	Controls if DEL messages are generated for FAILED orders - Y to prevent, C to send as CAN	COST_CENTRE
ORD_RBO_PREFIX	Is the rebook prefix stripped for LOTS?	SYSTEM
ORD_TEMPERATURE_COMBO	Use Temperature Combo to determine if the customer reference should be highlighted.	COST_CENTRE
SEND_LINE_ITEM_TO_LOTS	Send Line Item To LOTS. Y - send both Order Line (D) and Item (S) records. N - Checks for Items and, if there are any, sends Item (S) records, else Order Line (D) records.	SYSTEM
SEND_PALLET_ID_XML	Send Pallet ID tag in xml	COST_CENTRE
STOP_PID	LOTS - is STOP_PID included in the extract	SYSTEM - only for LOTS/CIM
TIME_ZONE_ACTIVE	Time Zone Active	SYSTEM
TMS_OTBOUND_SO_REF	Controls the outbound format for SO_REF in LOTSC	CUSTOMER
TRIP_ORDER_XSD_VERS	Version of TRIP XSD being used.	SYSTEM
TRM_DESP_FOR_DEL	Maintain the Actual Despatched Quantity for a Delivery Trip in Trip Debrief (Y/N).	COST_CENTRE
UNI_LOCATION	Location for Unilever	SYSTEM
USE_ORDER_ADDRESSEE	Will the addressee name be used for the order? (Y/N)	COST_CENTRE
USE_PALLET_ID_XML	Use Pallet ID instead of item identifier in XML Outbound files	COST_CENTRE
USE_XML_ORDER_SUB_REFS	Print order sub refs on outbound XML	COST_CENTRE

6 Exports

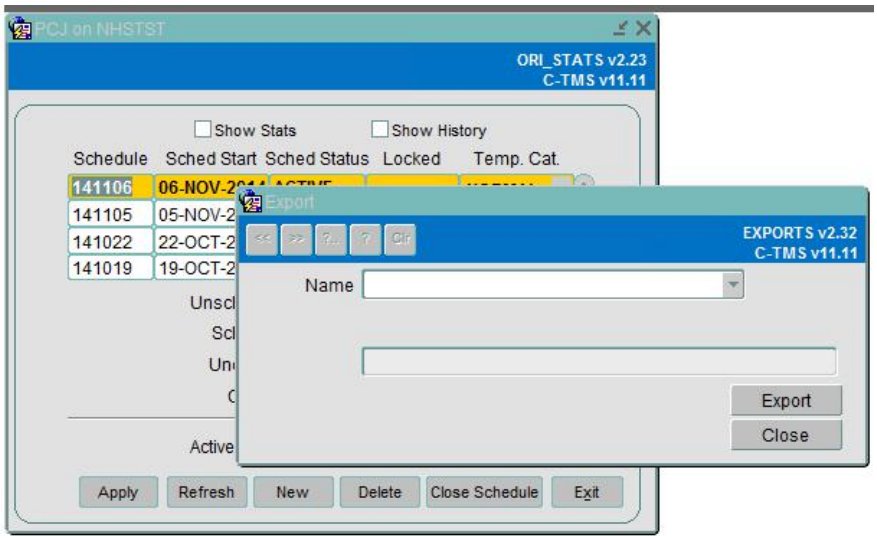
C-TMS Exports provides the users with Extracts of data that are required for day to day operations, finance and management reporting.

Requirements for particular exports are defined by the business and once exports have been developed and installed onto C-TMS, they are available to users via the Exports form.

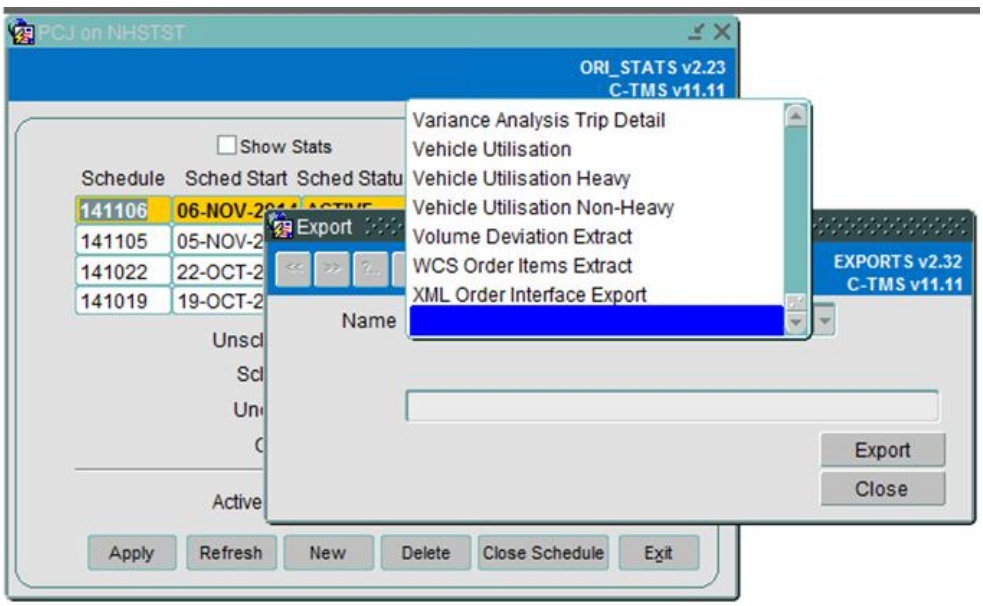
C-TMS Exports can be accessed from the C-TMS Modules menu

6.1 Generating Exports

Once you click on the Exports option, the form as shown below will be displayed.

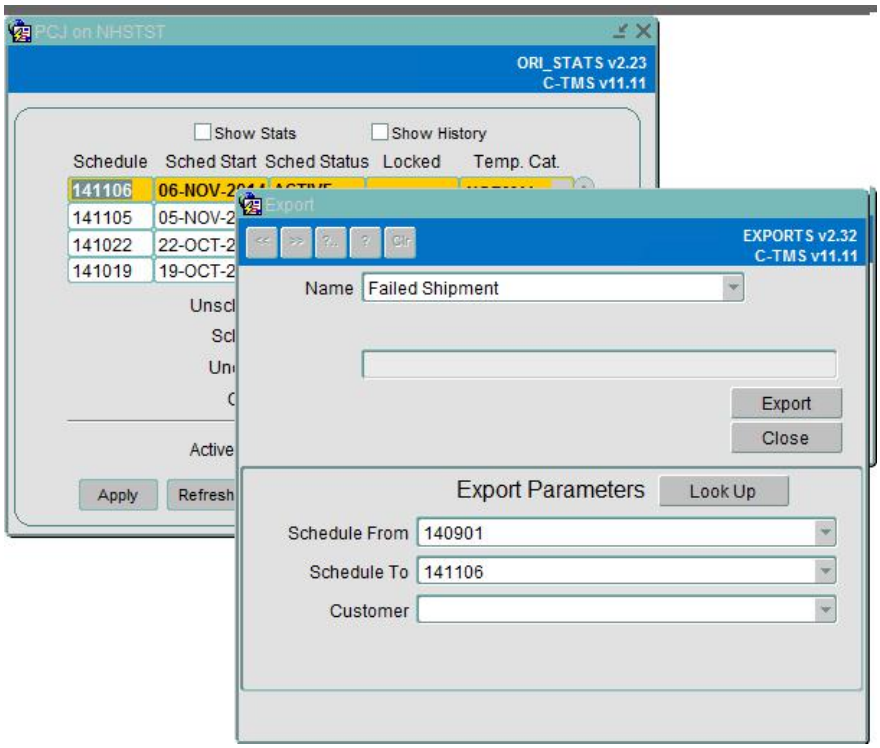


Select the required extract from the drop down field. Based on the Extract that you are selecting a list of parameters for generating the Extract will be displayed as shown below.



Note: User access to particular exports is controlled by the Administration section of C-TMS and is maintained by administrator users of the system. See the ADM section for further information.

In this example, we will look at generating the Failed Shipment. Once the Failed Shipment option is selected, the list of parameters for generating the Extract will be prompted as shown below. Based on the Extract that you are selecting the parameters will vary.



Note: Some parameters are mandatory, others are optional. Some exports do not require any input from the user.

Enter the From, To Schedule and Customer details and click on the **Export** button to generate the extract. You can save the file to your PC, the method will differ depending on which browser you are using.

Once you have saved the file you can open it in an application on your PC to view or edit.

6.2 Available Extracts

The following is a list of common available extracts. There are other bespoke extracts that may also be used. At latest count there are over 240 extracts.

Export	Description
Accruals	The information for this export is collated from the Payments and display payment details
Carrier Invoice	This is an export of payments which have been invoiced for a particular invoice number
Carrier completed trips	This is an export of the all the Trips completed by a carrier during a specified period.
Carrier non completed trips	This is an export of the all the Trips that have not been completed (POD applied) by a carrier during a specified period.
CTM Carrier Responsiveness	The information for this is collated from the Sch_Trip Audit table
CTM Trips Not Responded to	This export is used by the planner to check which carriers have not responded to a tender invitation for a trip
Commercial	This provides an extract of orders in C-TMS in a particular format
Contracts	This export, extracts all contract details within the C-TMS system in a certain format. .
Customer Invoice	This is an export of payments which have been invoiced for a particular invoice number
Customer Invoice By Dates	This is an export of payments which have been invoiced between two Depot Exits by Hour (Loads) This export shows which products were unloaded - in hourly chunks on a range of dates
	This export shows which products were unloaded - in hourly chunks on a range of dates in RPE

Export	Description
Depot Exits by Hour (RPE)	
Equipment Moves	The export extracts all of the equipment (DU Type) despatches, receipts, returns and exchanges. You can select by From/To Date/Time, Customer, Carrier and Owning Depot. The extract lists the following information: Action Date, Type, Customer, Planned Date, Actual Date, MTS Ref, Cust Ref, Del DU Type, Planned Del Qty, Carrier, Ticket Received, Trip, From Loc, To Loc, Stop, Action DU Type, Prev Qty, New Qty, Move, User
Extract Lane	The export, extracts all the lanes for a particular customer and or cost centre
Fixed Route Extracts	This export, will extract fixed routes, for a particular carrier or depot
KPI by Lane	The export allows planners to analyse the quality of the plan against the KPI?s to be achieved. The results are restricted by choice of schedule.
Kraft KPI	This shows a list of trips with orders for a range of dates for a particular cost centre
Lane Extract	This export, extracts lanes which have been set up for , customer, cost Centre, From Location and To
Load Schedule CSV	This export shows trips which have been loaded and unloaded at a particular Depot between a specified date range.
Location Delivery Pre Warning	This export show trips, which have loaded or unloaded at a specific depot between a specified range of dates in a specified status.
Message Maintenance	This export extracts ALL recipients which have been set up to receive emails & faxes along with the email address/ fax numbers
Order Savings	This export extracts data from the Savings table for a specified range of schedules.
Pre-Invoice Check	This export writes out a list of debit_accounts which are ready for invoicing.
Schedule	This export, writes out a list of trips and orders on a schedule between a date range specified
Schedule Trip CS	The export, writes out details of orders which have been schedule onto trips for a specified customer.
Store Pre-Warning	This export, extracts orders which have been created via the bookings module
Trip Actuals	This export writes out trip details which have been passed into ISOTRAK, for a specified schedule
Variance Analysis Store Detail	This extract write out planned and actual DU?s and RPE?s for all locations for a specified schedule.
Variance Analysis Summary	This extracts summaries totals from the SCH_Product_Summary table for a date range specified
Variance Analysis Trip Detail	This extracts writes out planned and Actual DU?s and RPE?s from the Sch_Order_Line table for a specified schedule.

A series of extracts relating to WCS Scanning has been created - these are available in section Extracts - WCS Scanning.

A list of all extracts including their parameters is shown in section Extracts List.

7 Extracts List

This page shows a list of all extracts, with links to the detail of each extract.

Report Name	Filename	Procedure for Scheduling
10.6 Customer By Product Export	Cust_By_Product	CSV.Cust_By_Product
10.6 Customer Location Export	Customer_Location	CSV.Customer_Location
10.6 Customer Product By Arrival	Cust_Product_By_Arrive	CSV.Cust_Product_By_Arrive
10.6 Data Extract	Data_Extract	CSV.Data_Extract
10.6 Load Status Export	Load_Status_Export	CSV.Load_Status_Export
10.6 Matthew Clark Data Extract	Matt_Clark_Data_Extract	CSV.Matt_Clark_Data_Extract
10.6 Planning Export	Planning_Export	CSV.Planning_Export
10.6 Tokairo Export	Tokairo_Export	CSV.Tokairo_Export
10.6 Warehouse Extract	Warehouse_Extract	CSV.Warehouse_Extract
1POD Delivery Extract	POD_Delivery_Extract	DP_CSV2.POD_DELIVERY_EXTRACT
AA Trip and Order Detail	AA_Trip_Order_Detail_Extract	CSV.AA_Trip_Order_Detail_Extract
ACC Missing Payments	ACC_Missing_Payment	DP_CSV_DUN.ACC_MISSING_PAYMENT
ACTIVITY_EXTRACT	ACTIVITY_EXTRACT	dp_csv3.activity_extract
Accruals	ACCRUALS	CSV.ACCRUALS
Actual Load	ACTUAL_LOAD_EXTRACT	DP_CSV_GEN.DAILY_EXT_LOAD
Actual Unload	ACTUAL_UNLOAD_EXTRACT	DP_CSV_GEN.DAILY_EXT_UNLOAD
Additional Reporting Requirements	nr_additional_rep	dp_csv_nr.nr_additional_report
Amazon Resources	FMC_BULK_UPLOAD	DP_CSV_CSS.AMAZON_RESOURCES
Amazon Resources Update	FMC_UPDATE	DP_CSV_CSS.AMAZON_RESOURCE_UPDATE
Approved Price Report	approved_price_rep	dp_csv_nr.approved_price_report
Asset History	ASSET_HISTORY	DP_CSV6.ASSET_HISTORY_EXTRACT
Asset Status	ASSET_STATUS	DP_CSV6.ASSET_STATUS
Asset Utilisation	ASSET_UTILISATION	dp_csv4.asset_utilisation
Assets On Time Delivery	ASSET_ON_TIME_DELIV	dp_csv4.asset_on_time_deliv
Automotive Planning Report	Planning_Report	DP_CSV2.PLANNING_REPORT
BGW Trip and Order Detail	BGW_Trip_Order_Detail_Extract	DP_CSV3.BGW_TRIP_ORDER_DETAIL_EXTRACT
BGW_DEBRIEF	BGW_DEBRIEF	dp_csv3.bgw_debrief
BMW Asset Dwell	AUTO_ASSET_DWELL	DP_CSV3.AUTO_AFTERMARKET_BMW
Backing Sheet	BACKING_SHEET_EXTRACT	DP_CSV_GEN.BACKING_SHEET
Baxter CSR	Baxter_csr	DP_CSV5.BAXTER_CSR
Baxter Download Id Orders	Baxter Download	DP_CSV5.BAXTER_DOWNLOAD_ID_ORDER
CARGOWISE Header	CARGOWISE_HEADER	OF_INT.WRITE_CARGOWISE_HEADER
CN Equipment Moves	Equip_Move	DP_CSV2.CN_EQUIP_MOVE
CN Trip and Order Detail	CN_Trip_Order_Detail_Extract	CSV.CN_Trip_Order_Detail_Extract
CN Warehouse Loading	CN_Warehouse_Loading	DP_CSV_DHL.p_warehouse_loading
CTM Carrier Responsiveness	CTM_CARRIER_RESPONSIVENESS	CSV.CTM_CARRIER_RESPONSIVENESS
CTM Trips Not Responded To	CTM_TRIPS_NO_RESPONSE	CSV.CTM_TRIPS_NO_RESPONSE
Call Collection OTIF Day	coll_OTIF_date_window	dp_csv_nr.coll_otif_date_window

Call Collection OTIF Time Window	coll_OTIF_window	dp_csv_nr.coll_otif_window
Call Delivery OTIF Day	del_OTIF_date_window	dp_csv_nr.del_otif_date_window
Call Delivery OTIF Time Window	del_OTIF_window	dp_csv_nr.del_otif_window
Campus KPI Extract	Campus_KPI_Extract	KPI.KPI_CAMPUS_EXTRACT
Carrier DUs Shipped	CARRIER_DUS_SHIPPED	DP_CSV5.CARRIER_DUS_SHIPPED
Carrier Delivery Report	Carrier_Delivery_Report	DP_CSV5.CARRIER_DELIVERY
Carrier Invoice	Carrier_Invoice	CSV.CARRIER_INVOICE
Carrier Self Billing	Carrier_Self_billing	DP_CSV_BNL.CARRIER_SELF_BILLING
Catalyst Extract	CATALYST_EXTRACT	CSV.CATALYST_EXTRACT
Co-ordinate Non-Conformities	Co_Ord_Non_Conf	DP_CSV6.CO_ORD_NON_CONFORM
Commercial	COMMERCIAL	CSV.Commercial_Orders
Compliance Report	COMPLIANCE_REPORT	DP_CSV_DUN.COMPLIANCE_REPORT
Concurrent Logon Export	Concurrent_Logon_Export	CSV.Concurrent_Logon
Contracts	CONTRACTS	CSV.CONTRACTS
Cross Dock	CROSS_DOCK	DP_CSV6.CROSS_DOCK
Customer Invoice	Customer_Invoice	CSV.Customer_Invoice
Customer Invoice By Dates	Customer_Invoice_By_Dates	CSV.Customer_Invoice_By_Dates
Customer Invoice Extract	Customer_Invoice	CSV.Customer_Invoice
Cut Offs Extract	Cut_offs_extract	DP_CSV6.CUT_OFF_EXTRACT
D365 Extract	DP_FINANCE.D365_EXPORT	D365_EXPORT_
DELIVERY_OVERVIEW	DELIVERY_OVERVIEW	dp_csv3.delivery_overview
DG Test Do Not Use	DG_Test	CSV.DO_NOT_USE
DOOD Rpt	DOOD_RPT	dp_csv_dood.dood_rpt
DUs Despatched	DUS_DESPATCHED_EXTRACT	DP_CSV_GEN.DUS_DESPATCHED_EXTRACT
DUs Not Loaded	DUS_NOT_LOADED_EXTRACT	DP_CSV_GEN.DUS_NOT_LOADED_EXTRACT
DUs Not Received	DUS_NOT_RECEIVED_EXTRACT	DP_CSV_GEN.DAILY_EXT_NOT_RECD
Daily Manifest E-OT-L	DAILY_MANIFEST_E_OT_L_EXTRACT	DP_CSV_GEN.DAILY_EXT_MANIFEST
Daily Receiving E-OT-L	RECEIVING_E_OT_L_EXTRACT	DP_CSV_GEN.DAILY_EXT_RECEIPTING
Daily Transport Plan	DAILY_TRANSPORT_PLAN_EXTRACT	DP_CSV_GEN.DAILY_TRANSPORT_PLAN
Daily Unscheduled Orders	DAILY_UNSCHEDULED_ORDERS_EXTRACT	DP_CSV_GEN.DAILY_UNSCHED_ORD
Debrief Performance	debrief_performance	dp_csv_nr.debrief_performance
Del Scans	DEL_SCANS	DP_CSV6.DEL_SCANS
Delivery Conf	BGYP_DELCONF_	DP_CSV5.DELIVERY_CONF
Delivery Schedule Extract	Delivery_Schedule	DP_CSV_DHL.DELIVERY_SCHEDULE
Depot Exits by Hour (Loads)	DEPOT_EXITS_LOADS	CSV.DEPOT_EXITS_BY_HOUR_LOADS
Depot Exits by Hour (RPEs)	DEPOT_EXITS_RPE	CSV.DEPOT_EXITS_BY_HOUR_RPE
Detailed Interface Report	Detailed_Interface_Report	CSV.Detailed_Interface_Report
Dixons Catalyst Report	fn	CSV.Dixons_Catalyst_Report
Dixons Order Export	Dixons_Order_Export	CSV.Dixons_Order_Export
Dixons Trip Extract	Dixons_Trip_Extract	CSV.Dixons_Trip_Extract
Driver Hours	driver_hours	dp_csv_nr.driver_hours
Driver Scanning	DRIVER_SCANNING	DP_CSV6.DRIVER_SCANNING
Dunelm Actual Load	DUNELM_ACTUAL_LOAD	DP_CSV_DUN.daily_ext_load
Dunelm Actual Unload	DUNELM_ACTUAL_UNLOAD	DP_CSV_DUN.daily_ext_unload
Dunelm Backing Sheet	BACKING_SHEET	DP_CSV2.BACKING_SHEET

Dunelm DUs Despatched Extract	DUNELM_DUS_DESPATCHED_EXTRACT	DP_CSV_DUN.DUN_DU_DESPATCHED_EXTRACT
Dunelm DUs Not Loaded Extract	DUNELM_DUS_NOT_LOADED_EXTRACT	DP_CSV_DUN.DUN_DU_NOT_LOADED_EXTRACT
Dunelm DUs Not Received	DUNELM_DUS_NOT_RECEIVED	DP_CSV_DUN.daily_ext_not_recd
Dunelm Inventory Transactions	DUN_INVENTORY_TRANS	DP_CSV_DUN.DUN_INVENTORY_TRANSACTIONS
Dunelm Item Movements 3	DUN_ITEM_MOVEMENTS_EXTRACT	DP_CSV_DUN.ITEM_MOVEMENTS_EXTRACT_3
Dunelm Item Movements Extract	DUN_ITEM_MOVEMENTS_EXTRACT	DP_CSV_DUN.ITEM_MOVEMENTS_EXTRACT
Dunelm Item Movements Extract New	DUN_ITEM_MOVEMENTS_EXTRACT	DP_CSV_DUN.ITEM_MOVEMENTS_EXTRACT_2
Dunelm Left Offs	Left_Offs_Extract	DP_CSV_DUN.left_offs_extract
Dunelm Loading Extract	DUNELM_LOADING_EXTRACT	DP_CSV2.DUN_LOADING
Dunelm Manifest E-OT-L Extract	DUNELM_MANIFESTED_EOL	DP_CSV_DUN.daily_ext_manifest
Dunelm Manual Loaded Items Extract	MANL_SCAN_ORDER_DETAIL_EXTRACT	DP_CSV2.MANL_SCAN_ORDER_DETAIL_EXTRACT
Dunelm Receiving Extract	DUNELM_RECEIVING_EXTRACT	DP_CSV2.DUN_RECEIVING
Dunelm Recieving E-OT-L Extract	DUNELM_RECEIPTED_EOL	DP_CSV_DUN.daily_ext_receipting
Dunelm Supplier DU Extract	DUNELM_SUPPLIER_DU_EXTRACT	DP_CSV2.DUN_SUPPLIER_DU_EXTRACT
Dunelm Supplier DU Extract by Store	DUNELM_DU_STORE_EXTRACT	DP_CSV2.DUN_DU_STORE_EXTRACT
Dunelm Supplier Revenue Extract	DUNELM_SUPPLIER_REVENUE_EXTRACT	DP_CSV2.DUN_SUPPLIER_REVENUE_EXTRACT
Dunelm Supplier Revenue Extract New	DUNELM_SUPPLIER_REVENUE_NEW	DP_CSV2.DUN_SUPPLIER_REVENUE_NEW
Dunelm Supplier Trends Extract	DUN_SUPPLIER_TRENDS	dp_csv_dun.dun_du_rpe_revenue_extract
Dunelm Transport Plan	DUNELM_TRANSPORT_PLAN	DP_CSV_DUN.daily_transport_plan
Dunelm Unsched Orders	DUNELM_UNSCHED_ORD	DP_CSV_DUN.daily_unsched_ord
Duplicate Postcodes	DUPLICATE_POSTCODES	dp_csv2.duplicate_postcodes_extract
EFX Inbound Errors	EFX_Inbound_Errors	DP_CSV2.EFX_In_Errs_Extract
ERC	ERC	DP_CSV_DHL.ERC
Equipment Moves	Equip_Move	DP_CSV2.EQUIP_MOVE
Extract Lane	EXTRACT_LANE	CSV.EXTRACT_BY_LANE
Failed Shipment	FAILED_SHIPMENT	dp_csv3.failed_shipment
Fixed Routes Extract	Routes_Extract	CSV.FIXED_ROUTES_EXPORT
GREENE KING Interface Results	GREENE_KING_interface_results	CSV.GREENE_KING_if_res
GYP EFX Export	GYP_EFX_Export	DP_CSV5.GYP_EFX_EXPORT
HC Booking In Form	HC_BOOKING_IN_FORM	DP_CSV5.P_HC_BOOKING_IN_FORM
HC Haulier Trip Sheet	HAULIER_TRIP_SHEET	DP_CSV2.HAULIER_TRIP_SHEET
HCR Customer Orders	HCR_CUSTOMER_ORDERS	DP_CSV_DHL.HCR_CUSTOMER_ORDERS
HCR Loading Sheet CSV	HCR_LOADING_SHEET	DP_CSV5.HCR_LOADING_SHEET
Haulier Invoice	Haulier_Invoice	DP_CSV5.HAULIER_INVOICE
Historical Lane Based Orders	hist_lbo	CSV.Historical_LBOrders
IND Trip and Order Detail	IND_Trip_Order_Detail_Extract	DP_CSV2.IND_TRIP_ORDER_DETAIL_EXTRACT
ISC Finance (2) Export	FINANCE_2_EXPORT	DP_CSV2.FINANCE_EXPORT_V2

ISC Finance (3) Export	FINANCE_2_EXPORT	CSV6.ISC_FINANCE_2_EXPORT
ISC Finance (4) Export	FINANCE_2_EXPORT	CSV7.FINANCE_EXPORT_V2
Interface Errors Failures	Interface_Errors_Failures	DP_CSV5.INTERFACE_ERRORS_FAILURES
Invalid Orders	Invalid_Orders	DP_CSV6.INVALID_ORDERS
Item Movements	ITEM_MOVEMENTS_EXTRACT	DP_CSV_GEN.ITEM_MOVEMENTS_EXTRACT
Item Movements 2	ITEM_MOVEMENTS_2_EXTRACT	DP_CSV_GEN.ITEM_MOVEMENTS_EXTRACT_2
Item Movements 3	ITEM_MOVEMENTS_3_EXTRACT	DP_CSV_GEN.ITEM_MOVEMENTS_EXTRACT_3
Items Not Scanned By Date	Items_Not_Scanned	DP_CSV_DUN.ITEMS_NOT_SCANNED_BY_DATE
Items Not Scanned By Trip	Items_Not_Scanned	DP_CSV_DUN.ITEMS_NOT_SCANNED_BY_TRIP
JEYES Interface Results	JEYES_interface_results	CSV.JEYES_if_res
Job Notes	Job_Notes	DP_CSV5.JOB_NOTES
KPI By Lane	KPI_BY_LANE	CSV.KPI_BY_LANE
KPI Extract	CN_KPI_Extract	KPI_EXTRACT.KPI_EXTRACT
Kraft KPI	KRAFT_KPI	CSV.Trips_with_Orders
LFS Packages	LFS_Packages	DP_CSV_LFS.LFS_PACKAGES
Lane Extract	Lane_Extract	CSV.LANE_EXPORT
Left Offs	LEFT_OFFS_EXTRACT	DP_CSV_GEN.LEFT_OFFS_EXTRACT
Loading Extract	LOADING_EXTRACT	DP_CSV_GEN.EXT_LOADING
Loading Schedule CSV	Loading_Schedule	CSV.LOADING_SCHEDULE
Location Export	Location_Export	DP_CSV2.LOCATION_EXPORT
Location Export GL	Location_Export	CSV.LOCATION_EXPORT_GL
Location Export GPR	Location_Export	CSV.LOCATION_EXPORT_GPR
Location Pre-Warning	Loc_Del_Pre_Warn	CSV.Loc_Del_Pre_Warning
MDD Code 03 Exceptions	MDD Code 03 Exceptions	CSV.MDD_Code_03_Exceptions
MTS Finance Export	FINANCE_EXPORT	CSV.finance_export_v2
MTS Finance Export V2	FINANCE_EXPORT_V2	CSV.finance_export_v2
Manual Loaded Items	MANUAL_LOADED_ITEMS_EXTRACT	DP_CSV_GEN.MANL_SCAN_ORDER_DETAIL_EXT
Master and Child Locations	Master_and_Child	DP_CSV5.MASTER_AND_CHILD
Message Maintenance	Message_Maintenance	CSV.msg_maint
Missing Lat Long Report	MISSING_LAT_LONGS	dp_csv3.missing_lat_long_extract
Missing Steps Report	Missing_Steps_Report	DP_CSV5.Missing_Steps_Report
Month End Accruals	month_end_accruals	dp_csv_nr.month_end_accruals
NR Additional Report	nr_additional_rep	dp_csv_nr.nr_additional_report
NR Finance Extract	NR_Finance_Extract	DP_CSV_NR.NR_FINANCE_EXTRACT
NR Invoice	NR_Invoice	DP_CSV_NR.NR_INVOICE
OPS KPI Extract	OPS_KPI_Extract	KPI.KPI_OPS_EXTRACT
OPS KPI Extract2	OPS_KPI_Extract	KPI.KPI_OPUS_EXTRACT
OTM Export	OTM_Export	DP_CSV_DHL.OTM_EXPORT
On Time Arrivals	ON_TIME_ARRIVALS	DP_CSV6.ON_TIME_ARRIVALS
On Time Drops	ON_TIME_DROPS	DP_CSV6.ON_TIME_DROPS
On Time Items	ON_TIME_ITEMS	DP_CSV6.ON_TIME_ITEMS
On Time Items (Assets)	ON_TIME_ITEMS	DP_CSV6.ON_TIME_ITEMS_ASSETS
On Time Returns	ON_TIME_RETURNS	DP_CSV6.ON_TIME_RETURNS
Operational Information	Operational_Information	DP_CSV2.OPERATIONAL_INFO
Order Charges Extract	ORD_CHARGE	DP_CSV5.ORD_CHARGE_REPORT
Order Extract	ORDER_EXTRACT.csv	DP_CSV2.HCR_ORDER_EXTRACT
Order Interface Results	ORDER_INTERFACE_RESULTS	CSV.ORDER_INTERFACE_RESULTS
Order Items POD Debriefed	Order_Items_POD_Debriefed	DP_CSV_GEN.ORDER_ITEMS_POD_DEBRIEFED
Order Savings	ORDER_SAVINGS	CSV.Order_savings
Order Tracking	Order_Tracking	DP_CSV5.ORDER_TRACKING

Orders for Relabelling	ORDERS_FOR_RELABELLING	DP_CSV_DHL.ORDERS_FOR_RELABELLING
Orders to LogiX	LogiX_Orders	DP_LOGIX.ORDER_EXPORT
Orders to Paragon	Paragon_Orders	CSV.Orders_to_Paragon
Outbound Shortage	OUTBOUND_SHORTAGE	DP_CSV6.OUTBOUND_SHORTAGE
PAYMENT_DTLS	PAYMENT_DTLS	OF_INT.WRITE_PAYMENT_DETAILS
POC to SAP Extract	POC to SAP Extract	CSV.POC_to_Sap_Extract
POC to SAP Extract(A)	POC to SAP Extract(A)	CSV.POC_to_Sap_Extract
POC-POD Reprocessing Team Export	POC_POD_REPOROCESSING	DP_CSV.POC_POD_REPROCESSING
POD Delivery Extract	POD_Delivery_Extract	DP_CSV2.POD_DELIVERY_EXTRACT
POD Generation Extract	POD_GEN	DP_CSV5.POD_REPORT
POD to SAP Extract	POD to SAP Extract	CSV.POD_to_Sap_Extract
POD to SAP Extract(A)	POD to SAP Extract(A)	CSV.POD_to_Sap_Extract
PORSCHE19 Invoice Extract	Invoice_Extract	DP_CSV2.Invoice_Extract
PROVIDER_REVENUE	PROVIDER_REVENUE	dp_csv3.provider_revenue
Parts and Empites	Parts_and_Empties	DP_CSV5.PARTS_AND_EMPTIES
PostCode Matrix	POSTCODE_MATRIX	dp_csv3.postcode_matrix
Pre Invoice Check	Pre_Invoice_Check	CSV.PRE_INVOICE_CHECK
Process Items Audit	PROCESS_ITEMS_AUDIT	DP_CSV6.PROCESS_ITEMS_AUDIT
Process Items Interface Audit	PROCESS_ITEMS_INTERFACE_AUDIT	DP_CSV6.PROCESS_ITEMS_INTERFACE_AUDIT
Provisional Booking Exceptions	Provisional Booking Exceptions	CSV.Provisional_Booking_Exceptions
Purchase Order Extract	po_extract	DP_CSV2.PURCHASE_ORDER_EXTRACT
Reason Listings	REASON_LISTING	dp_csv3.reasons_listing
Receipt Scanning	RECEIPT_SCANNING	DP_CSV6.RECEIPT_SCANNING
Receiving Extract	RECEIVING_EXTRACT	DP_CSV_GEN.EXT_RECEIVING
Revenue Check (Account)	revenue_report	dp_csv_nr.revenue_report
SMS Email Summary Report	sms_email_summary	DP_CSV5.SMS_EMAIL_SUMMARY
STL Trip and Order Extract	STL_Trip_Order_Extract	DP_CSV2.STL_TRIP_ORDER_EXTRACT
Sales Margin Extract	sme	CSV.order_costs
Savings Extract	Savings	CSV.SAVINGS_EXTRACT
Schedule	Schedule	CSV.SCHEDULE
Schedule Details	schedule_details	DP_CSV_GEN.SCHEDULE
Schedule Trips CS	SCHED_TRIPS_CS	CSV.SCHEDULE_TRIPS_CS
Scheduled and Cancelled Orders	Schedule_Orders	CSV.SCHEDULE_ORDERS_VS
Scheduled and Cancelled Orders v2	fn	CSV.SCHEDULE_ORDERS_VS_V2
Short Rail Report	short_rail_rep	dp_csv_nr.short_rail_report
Slot Extract	Slot_Extract	DP_CSV3.Slot_Extract
Store PVA	STORE_PVA	DP_CSV_DUN.STORE_PVA
Store Pre Warning	Store_Pre_Warning	CSV.Store_Pre_Warning
Sub Contractor	SUB_CONTRACTOR	DP_CSV_GEN.SUB_CONTRACTOR
Supplier DUs	SUPPLIER_DU_EXTRACT	DP_CSV_GEN.SUPPLIER_DU_EXTRACT
Supplier DUs By Store	SUPPLIER_DU_BY_STORE_EXTRACT	DP_CSV_GEN.DU_STORE_EXTRACT
Supplier Invoice	Supplier_Invoice	DP_CSV5.SUPPLIER_INVOICE
Supplier Revenue	SUPPLIER_REVENUE_EXTRACT	DP_CSV_GEN.SUPPLIER_REVENUE_EXTRACT
Supplier Revenue 2	SUPPLIER_REVENUE_2_EXTRACT	DP_CSV_GEN.SUPPLIER_REVENUE_EXTRACT_2
TYRE SUMMARY EXTRACT	TYRE_SUMMARY_EXTRACT	DP_CSV6.TYRE_SUMMARY_EXTRACT

Trip Actuals	TRIP_ACTUALS	CSV.TRIP_ACTUALS
Trip Assessment Extract	chk_trips	dp_csv_lfs.chk_trips
Trip Extract	Trip_Extract	CSV.Trip_Extract
Trip and Order Detail Extract	Trip_Order_Detail_Extract	CSV.Trip_Order_Detail_Extract
Trunking Report	Trunking_Report	CSV.Trunking_Report
UNISON Interface Results	UNSION_interface_results	CSV.UNISON_if_res
User Activity Extract	User_Activity_Extract	CSV.User_Activity_Extract
User Last Logon Extract	USER_LAST_LOGON	CSV.user_logon_export
Variance Analysis Store Detail	VAR_ANLYS_STORE_DTL	CSV.VARIANCE_ANALYSIS_STORE_DTL
Variance Analysis Summary	VAR_ANLYSIS_SUM	CSV.VARIANCE_ANALYSIS_SUMMARY
Variance Analysis Trip Detail	VAR_ANLYS_TRIP_DTL	CSV.VARIANCE_ANALYSIS_TRIP_DTL
Vehicle Utilisation	vehicle_util	dp_csv_nr.vehicle_utilisation
Vehicle Utilisation Heavy	hvy_vehicle_util	dp_csv_nr.heavy_vehicle_utilisation
Vehicle Utilisation Non-Heavy	vehicle_util	dp_csv_nr.vehicle_utilisation
Volume Deviation Extract	VOLUME_DEVIATION_EXTRACT	DP_CSV5.volume_deviation_report
Volume or Activity	VOLUME_ACTIVITY	DP_CSV6.VOLUME_ACTIVITY
WCS Location Snapshot	WCS_LOC_SANPSHOT	DP_CSV2.wcs_loc_snapshot
WCS Order Items Extract	WCS_ORDER_ITEMS_EXTRACT	DP_CSV2.WCS_ORDER_ITEMS_EXTRACT
Weekly Transport Report	Weekly_Transport	DP_CSV_BNL.Weekly_Transport
XML Order Interface Export	XML_Order_Interface	DP_CSV3.XML_ORDER_INTERFACE

8 Imports

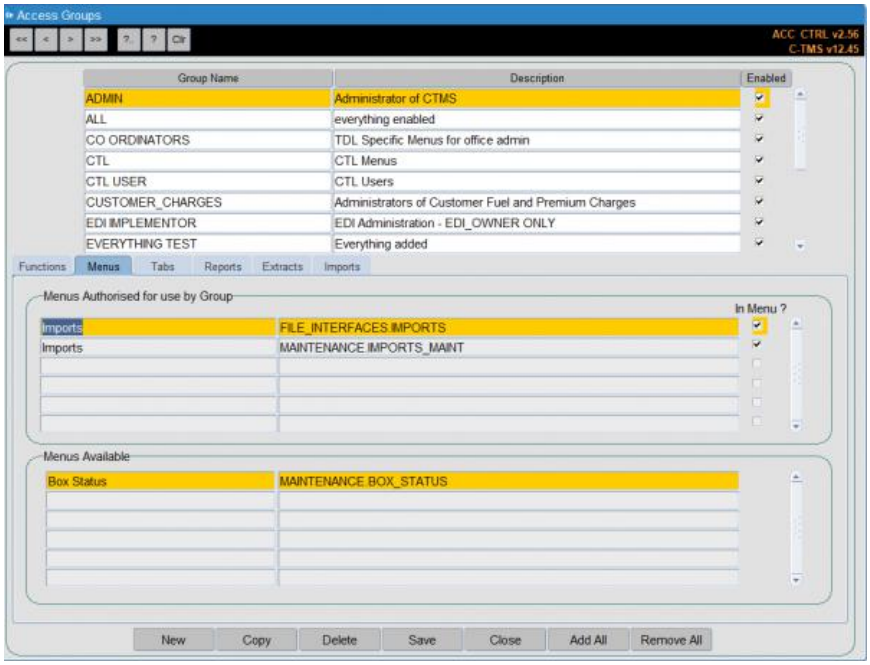
The C-TMS Flat File Import functionality allows for data to be loaded into the system without the need for a formal electronic interface. The import mechanism allows a file from a users PC to be uploaded to the server and from there it can be loaded into the database.

There is a predefined set of import types which have been configured along with the fields which can be included in each import. It is possible to configure these imports to suit individual requirements, for example, on an Order import it is possible to pass in the id for an existing location or it is possible to pass in the name and address for a new location (only the first 2 parts of a postcode are required for a new location to be created) with relevant information such as loading rates automatically being copied from existing locations to their orders. Certain imports also have the concept of a record type allowing 2 types of information to be included in one import such as orders and order lines. Order details can be contained on one line and then one or many orders lines can be included in subsequent lines.

8.1 Access Control

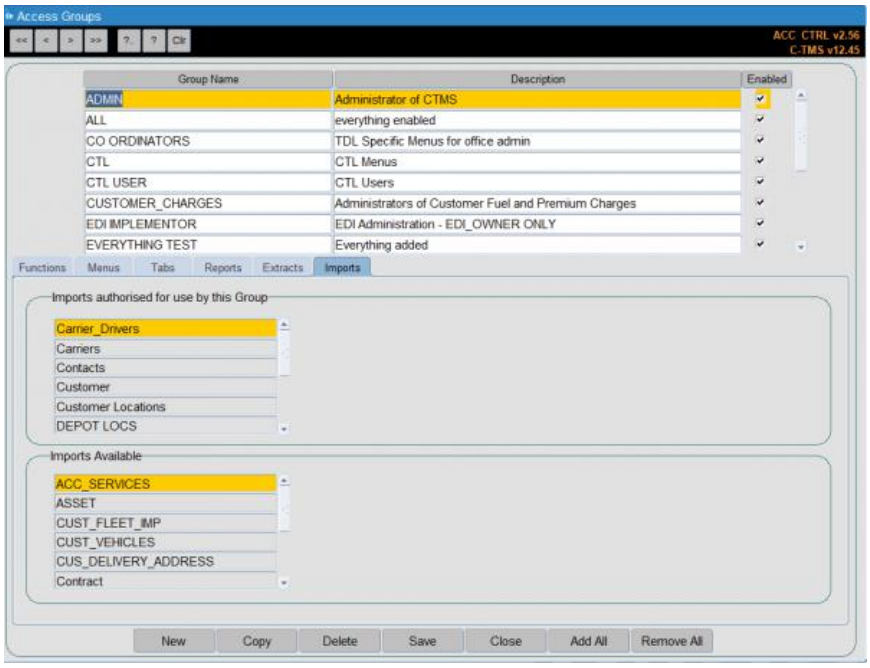
Access to maintain and execute the imports is subject to access control.

To access the maintenance or execution of imports, your user must be part of a group that has access to the screens. You can do this through the Access Control screen, Groups maintenance, Menu tab for your assigned group.



- Imports (FILE_INTERFACES.IMPORTS) - this is for the execution of imports.
- Imports (MAINTENANCE.IMPORTS_MAINT) - this is for the maintenance of imports.

In order to import in a particular format, you also have to have access to the format, which is controlled through the same screen, Imports tab:



In both cases, access is granted by double-clicking the required menu or import on the lower "Available" table to add it to the upper "Authorised" table.

If you do not have privilege to change access control, contact your system administrator for access.

8.2 Import Processing

There are a number of imports that are currently configured including Orders., Bookings, Slots and Receipts.

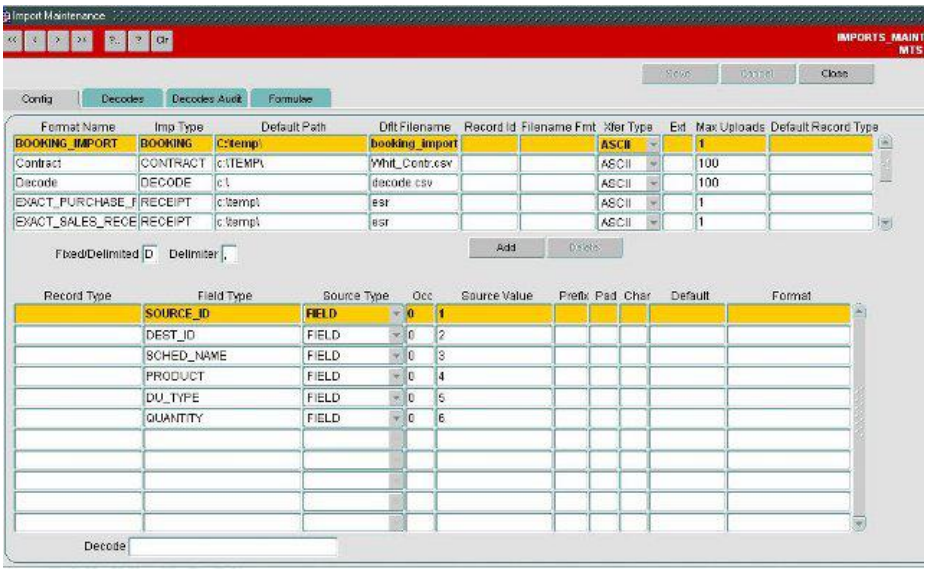
While processing the file C-TMS will attempt to process each line individually, upon completion it will report back to the user the number of lines that were processed successfully and the number that failed. Results and failures files (.res and .fail) are produced and can be viewed on the server to see what happened during the import. Upon completion a record will also be written to an audit table, detailing when the import was run, who ran it, the number of records processed successfully and the number that failed. If the Import was for orders it will also contain a comma separated string of all the orders that were created.

With regard to the Orders imports it is very important to prevent a file from being processed more than once. C-TMS will perform a check to ensure that the same file cannot be loaded twice, this is achieved using the checksum functionality on the server, if a user attempts to load a file that has already been processed it will be rejected. C-TMS also performs checks to ensure that the order being processed is not already in the system, the check is made based on the key fields of an order.

8.3 User Interface

There are 2 screens in C-TMS for imports, one for maintenance and the other for execution as follows:

8.3.1 Maintenance



To create a new import, select a row on the top section and click the **Add** button.

Enter a unique format name.

Enter an import format or select from a lookup using CTRL-L - a list of currently available imports is shown below.

Enter a default path and filename - this is a default LOCAL path and filename on your PCs or network which is used when executing to find the import files. You can change this when executing an import, but is useful as a default.

You may also enter:

- XFer Type - ASCII (character, the default) or BINARY.
- Max Uploads - a maximum number of records that can be uploaded through this import.
- Default Record Type - a default for the records (lines) included in the file.
- Fixed/Delimited - this will default to delimited if unspecified.
- Delimiter - this will default to a comma if unspecified.

You can save your export using the **Save** button provided, or cancel any changes you have made after the last save with the **Cancel** button.

To edit an existing import, you can select it from the top table, and any defined extract fields will be listed below.

To delete an existing import, select the import in the top table and click the **Delete** button.

To add extract fields, select the lower table and click the **Add** button. The screen will take you through the adding of a new field.

If there are multiple record (line) types that can be specified in the import, the screen will automatically show you the available record types. You can select one by clicking on it and clicking OK, or by double-clicking on the data row. You can cancel the addition by clicking the **Cancel** button.

After selecting a record type (or if there is only one record type), the screen will automatically show you a list of fields for that record type. You can select one by clicking on it and clicking OK, or by double-clicking on the data row. You can cancel the addition by clicking the **Cancel** button.

After that, you can specify where the data for this system field comes from:

- FIXED - a fixed value, typed directly in the Source Value column.
- FIELD - a column of data from the inbound file, indicated by a numeric entry in the Source Value column.
- PARAM - a parameter from the execution screen, identified by the Source Value column.
- OMIT - a placeholder. The field will not be imported or set.

You may also specify the following:

- Occ - occurrence of that field
- Prefix - a prefix to add to the start of the field data
- Pad - How may characters to pad the field, if required. Applies to the left i.e. padding to 3 characters with "0", "1" becomes "001", "17" becomes "017", "12345" becomes "123".
- Char - a padding character for the field when padding.
- Default - a default value if the import field is not provided.
- Format - Available formats are defined in the Formulae tab. If selected, one of:
    - COMET - a bespoke format.
    - SSL - a bespoke service level format.
    - PLUS_X - where X is a number to add to a numeric field value.
    - ADD_DAYS_SCHED_OFFSET - an offset to a date, specified in the 4th and 5th parameters.
    - DATE_NEXT_SLOT - the date of the next delivery slot, defined by parameters: 2 - secondary location; 3 - principal location, 4 - Product, 5 - RPE
    - DAY+1WD - the next working day from the date specified.
    - DAYNAME_TO_WKDAYNO - convert a week day number to a human-readable day name.
    - LOC_REF_X - Obtain a location ID by an alternative reference. Various reference types are possible, which will be suffixed to the model prefix "LOC_REF_", eg "LOC_REF_EXT", "LOC_REF_WHS".
    - PRD_REF_X - Obtain a PRODUCT TYPE by an alternative reference. Various reference types are possible, which will be suffixed to the model prefix "PRD_REF_", "PRD_REF_SECTION_DFLT".
    - DU_REF_X - Obtain a DU_TYPE by an alternative reference. Various reference types are possible, which will be suffixed to the model prefix "DU_REF_PRD_DFLT", eg "PRD_REF_SECTION_DFLT".
- Decode - a decode table to lookup a value from the import field value to a system field value. This is covered more in the following section. A lookup list of decodes is provided. If a decode value is not found, the direct import field value is used.

You can add new fields, delete existing fields, edit existing fields and save your changes using the buttons provided.

Note: Typically with each import, there is a record type and action that is required. This is usually specified against the core data record type.

For example, the PERSON import type (for importing drivers and crew) supports the following 3 record type:

- PERSON - the person being imported and its data - the core data.
- CARRIER - the carriers to which this person belongs.
- VEHICLE - any vehicle types that person is capable of using.

The REC_TYPE and ACTION fields are specified against the PERSON record type.

You can use this to your advantage to import multiple record types in a single file.

For example, you might want to import a person, a carrier for that person and some vehicle types that they can use.

Each record might be configured as follows:

- Common:
    - Column 1:REC_TYPE, column 2:ACTION
- PERSON
    - Column 3:PERSON_ID, Column 4:FORENAME, Column 5:SURNAME
- CARRIER
    - Column 3:CARRIER_PERSON_ID, Column 4:CARRIER_ID, Column 5:CARRIER_INACTIVE
- VEHICLE
    - Column 3:VEHICLE_PERSON_ID, Column 4:VEHICLE_TYPE

The import file might look like this:

```
PERSON,A,120,Walker,Jay
CARRIER,A,120,CARRIER1,N
VEHICLE,A,120,VTYPE1
VEHICLE,A,120,VTYPE2
PERSON,A,121,Golding,Harry
CARRIER,A,121,CARRIER1,N
```

Importing this file would create 2 people, both assigned to carrier 1, with the first person assigned to two vehicle types.

8.3.2 Decodes

Decodes are tables of cross-reference data that you can use to convert import values to system values, to account for differences in import data formats.

For example, you have a delivery type STANDARD. All external data import files provide the data, but one field says "STD" instead of "STANDARD". You could create an import decode to change "STD" to "STANDARD" and reference the decode table here.

There are also many different decodes in the system, and some are specifically required for some functionality to operate, usually required decodes for specific interfaces.

Some examples:

- LOGIX Interface
  - *Decode Name*: LOGIX_DU_TYPES
  - *Decode Type*: DU Types
  - *Source Value*: The CTMS DU Type
  - *Target Value*: The Logix DU Type
- LogiNext Interface
  - *Decode Name*: LOGINEXT_DEL_TYPES
  - *Decode Type*: Reference
  - *Source Value*: The CTMS Delivery Type
  - *Target Value*: The LogiNext Delivery Type

Typically, these will be mentioned in the documentation of the specific screens, interfaces or processes as to which decodes are required for certain bespoke functionality to operate as required, and are not listed in this guide. Some other brief examples are:

- XML_REFERENCE - Order sub-references names.
- LOC_REF_NAMES - Location reference names.
- Specifically for Aptean POD (APOD):
  - FLEXIPOD_TPCLIENTNUM
  - FLX_DEPOT
  - FLX_RESULT_CODES
  - FLX_STATUS_CODES
- Specifically for Automotive Alliance Dealerships:
  - {CUSTOMER}_DEALERSHIPS - e.g. FORD_DEALERSHIPS
  - {CUSTOMER}_DU_TYPES - e.g. TESLA_DU_TYPES

You create decodes in the Decode import tab.

You can create a new decode table from the top table by clicking the **Add** button on the top section.

You must provide:

- A unique name.
- A type, provided in a drop-down list.

Types are selected from the following list:

- CARRIER
- CARTONS
- CLASS
- COMMODITY
- COST_CENTRE
- CUSTOMER
- CUST_GROUP
- DELIVERY
- DEL_TYPE
- DRIVER_NUM
- DU_TYPE
- EPOD - cross-reference specifically for Calidus EPOD.

- LATLONG_CALC
- LOCATION
- REFERENCE - general cross-reference tables Order and Location References specifically.
- SERVICE_LVL
- TRACTOR_ID
- TRAILER_ID
- TRAILER_TYPE
- WCS_IN - cross-reference specifically for Calidus WCS.
- XML_REF

You can save using the **Save** button and delete the decode table with the **Delete** button.

When a decode table is selected, the decodes are shown in the lower table. You can edit existing decodes or add new ones with the **Add** button in this section. You can delete decode entries with the **Delete** button.

You must provide:

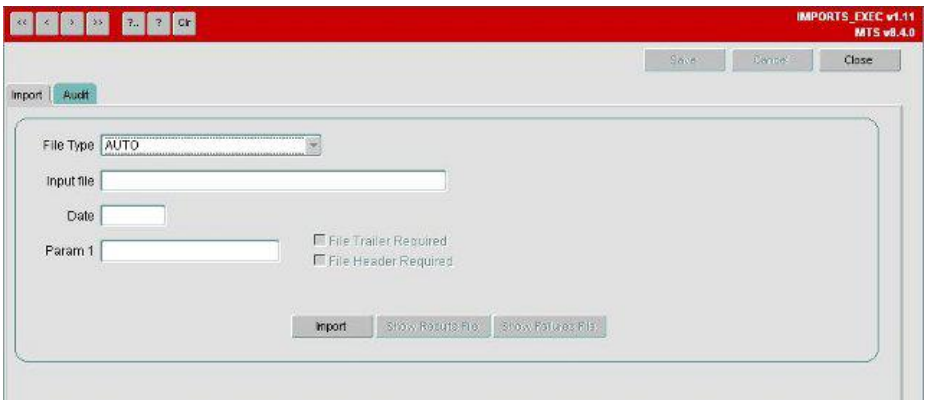
- Source value - the value to be changed.
- Target value - the value to change to.

You may also provide a customer and/or carrier to which this decode pertains. This decode will then only be used if the import references this customer and/or carrier.

Note: You can use the import process itself to import decode tables, by creating an import of import type "DECODE".

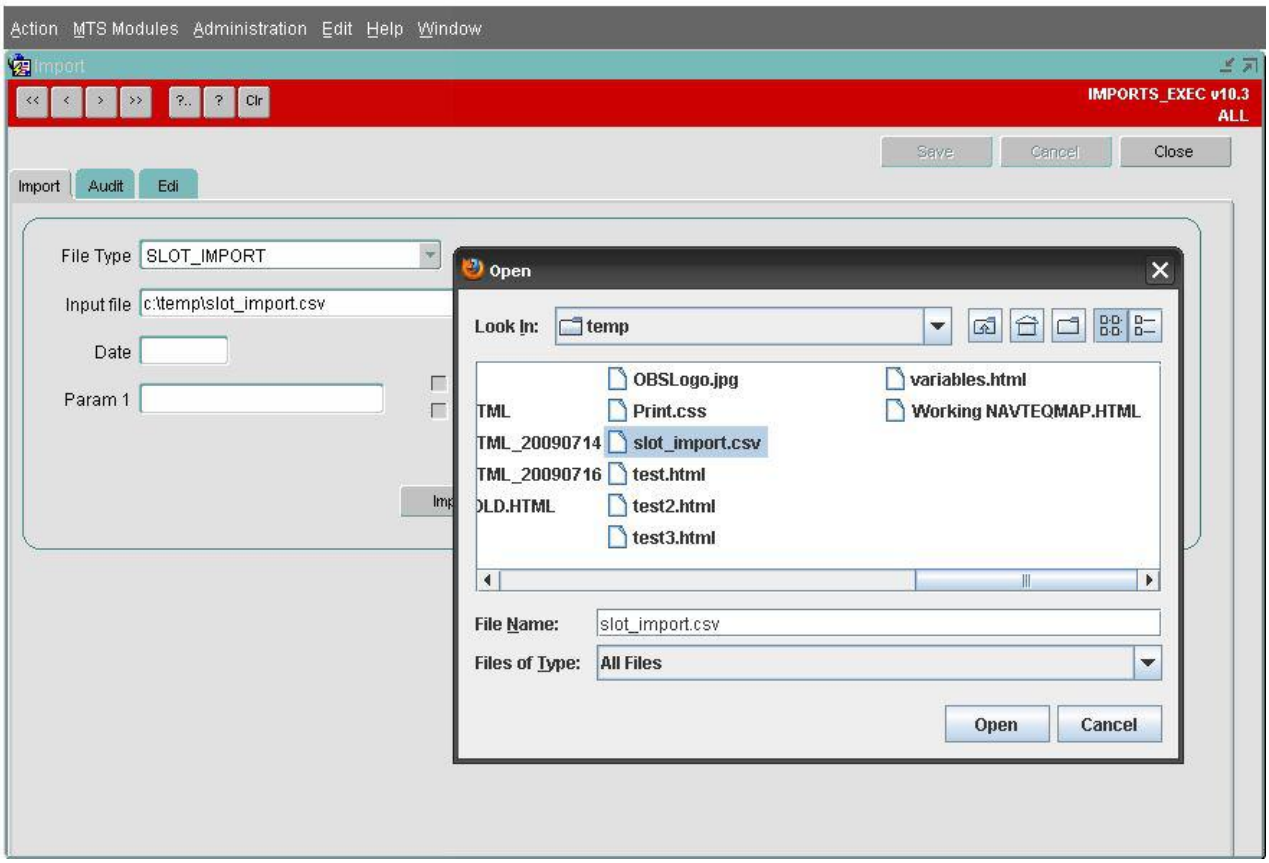
- DECODE

8.3.3 Execution

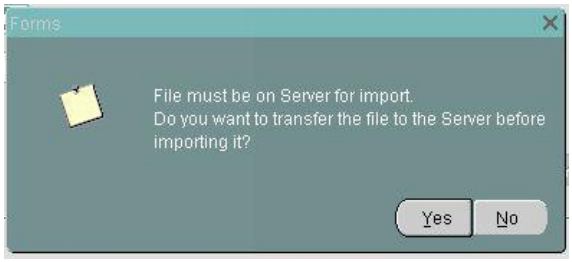


When an import is executed the file must be on the server, the system allows the user to upload the file onto the server if it is not already there.

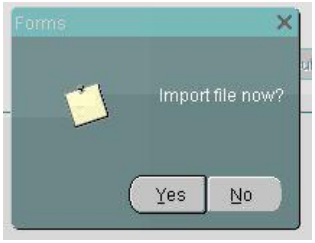
To upload a file onto the server for importing you will need to either accept the default file location for the type of import you are performing or use the **Browse** button to select a file to upload from your PC or a network location that you have access to:



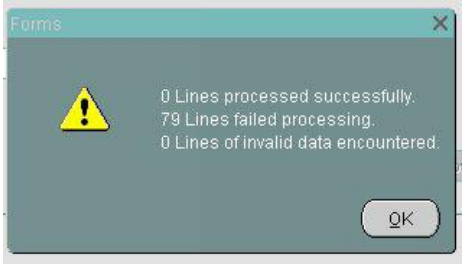
Once the file is found and selected you should click the **Open** Button. This will then prompt you to confirm you wish to upload the file onto the system's server:



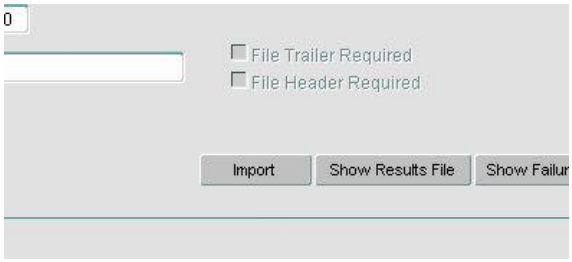
If you click on **Yes** the file will be uploaded onto the server, depending on the import file's size you may be presented with an hour glass whilst the upload occurs. When the upload is complete you will be asked if you wish to proceed with the import:

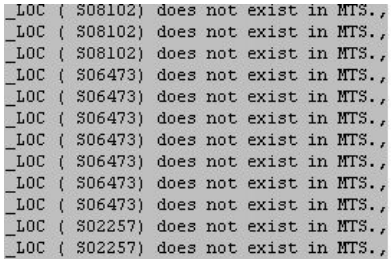


If you click **Yes** you will then be presented with a confirmation message advising what has happened during the import:



If errors occur during the import as above you will notice the **Show Results File** button has become active you will be able to click on this to see why the data was rejected:





The **Show Failure File** will list those records that have failed to upload - this can be downloaded, corrected and then re-uploaded.

8.4 Notes on Validation of Imports

The import fields have strict restrictions, such as particular values, formats, lengths, etc.

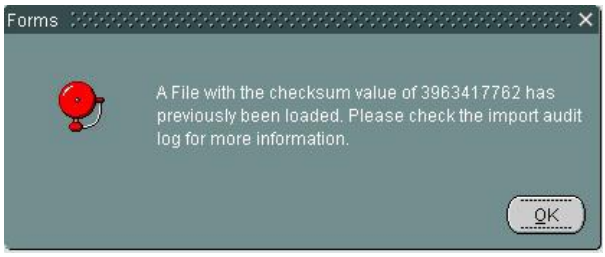
As any field can be decoded through a decode table entry, this restriction applies to the *decoded* value.

Similarly, data can be modified through formulae, amending the data uploaded for a particular field. Any fields which apply formulas will have the restrictions applied to the *transformed* data.

If there is no decode or formula, then the data you attempt to upload *must* abide by the stated restrictions, otherwise the system will reject the data.

To preserve database integrity and prevent duplicate data being imported, every CSV file has a unique numeric identifier, not visible to the user. This is called the "checksum value".

The system will prevent a file import if the content is identical to a previously uploaded file. For example, if an import is executed and completes ok, then the exact same file is attempted to be uploaded, with which the content remains unchanged from the first import, the following error message is displayed:



In this instance the data will already have been uploaded onto the system.

8.5 Currently Available Imports

A variety of imports are available in the C-TMS system, and bespoke imports are developed when required by the business. A current list of the imports available are described below:

Import	Description
ACCOUNT	This import allows users to upload Accounts into C-TMS. This import allows for addition, modification or deletion of account data.
ACC_SERVICES	This import allows users to upload Services into C-TMS. This import allows for addition and modification of additional services.
ACC_SRV_RTS	This import allows users to upload Account Service Requirements into C-TMS. This import allows addition ONLY.
ASSET	This import allows users to upload permanent assets into C-TMS. This allows for creation and modification of permanent assets.
BAX_DEL_TYPE	
BAX_ROUTE	
BOOKING	This import allows users to upload Bookings into C-TMS. This import allows 3 different types: BOOKING, BOOKINGS_ASN and BOOKINGS_MDD.
CARRIER	This import allows you to upload Carriers into C-TMS. This allows for addition, modification or deletion of carriers.
CARRIER_LANE	This import allows users to upload Carrier Lanes into C-TMS
CONTRACT	This import allows users to upload Contracts into C-TMS
CURR_USAGE	This import allows users to upload Account Currency Usage records into C-TMS. This import allows for addition or deletion of currency usage data.
CUSTOMER	This import allows you to upload Customers into C-TMS
CUST_FLEET	This import allows users to upload Customer Fleets into C-TMS. Note that this is specific to Fleet Maintenance users (Bespoke)
DEBRIEF	This import allows users to upload basic debrief information against a location on a trip into C-TMS. This includes signatory and arrival/departure date/time, and sets the orders at that location to POD confirmed.
DECODE	This import allows users to upload Import/Export Decodes into C-TMS

Import	Description
DEL_SCHEDULE	This import allows users to upload into C-TMS
DRIVERS	This import allows users to be uploaded Drivers into C-TMS. This allows for addition, modification or deletion of basic driver details. **Note:** The PERSON import supersedes this import and should be used instead.
DRIVER_SHIFT	This import allows users to allocate Drivers to Shift Patterns into C-TMS. This allows for Addition, modification or deletion of driver shift patterns.
DU_TYPE	This import allows users to upload Despatch Unit Types|Despatch Unit Types into C-TMS
FIXED_ROUTE	This import allows users to upload Fixed Routes into C-TMS. This allows for addition, modification or deletion of fixed routes, stops and transport modes.
GAZ_DHL_ESD	This import allows users to upload Carrier Gazetteers into C-TMS
GAZ_MOVIANTO	This import allows users to upload Carrier Gazetteers into C-TMS
GAZ_POLARSP	This import allows users to upload Carrier Gazetteers into C-TMS
GAZ_UKMAIL	This import allows users to upload Carrier Gazetteers into C-TMS
GAZ_UKM_PO	This import allows users to upload Carrier Gazetteers into C-TMS
GAZ_UKM_SE	This import allows users to upload Carrier Gazetteers into C-TMS
GAZ_YODEL	This import allows users to upload Carrier Gazetteers into C-TMS
GAZ_YODEL_AC	This import allows users to upload Carrier Gazetteers into C-TMS
GAZ_YODEL_CF	This import allows users to upload Carrier Gazetteers into C-TMS
GAZ_YODEL_CY	This import allows users to upload Carrier Gazetteers into C-TMS
GAZ_YODEL_DE	This import allows users to upload Carrier Gazetteers into C-TMS
GAZ_YODEL_DP	This import allows users to upload Carrier Gazetteers into C-TMS
GAZ_YODEL_DS	This import allows users to upload Carrier Gazetteers into C-TMS
GAZ_YODEL_FE	This import allows users to upload Carrier Gazetteers into C-TMS
GAZ_YODEL_HA	This import allows users to upload Carrier Gazetteers into C-TMS
GAZ_YODEL_RE	This import allows users to upload Carrier Gazetteers into C-TMS
GAZ_YODEL_SE	This import allows users to upload Carrier Gazetteers into C-TMS
INVOICE_RQTS	This import allows users to upload Invoice Requirements into C-TMS. This import allows for addition, modification or deletion of account invoice requirements data.
LANE	This import allows users to upload Lanes into C-TMS
LOCATION	This import allows users to upload Locations into C-TMS. This import allows addition ONLY of locations, constraints, contacts, references and trailer types.

Import	Description
LOC_PRD_FACT	This import allows users to upload location product factors into C-TMS
LOC_UPDATE	This import allows users to upload updated locations into C-TMS. This import allows update ONLY of basic location address details.
LOC_ZONES	This import allows users to upload Location Zones into C-TMS
MILK_ROUND	
ORD_LINE_ITM	This import allows users to upload Orders into C-TMS. Note that orders can be added, modified or deleted through this interface.
PARAGONXDOCK	
PAR_DEL_DATE	
PAR_TRIP_DTL	
PAR_XDOCKS	
PERSON	This import allows users to upload Drivers into C-TMS. This import allows for addition, modification or deletion of drivers details (record type PERSON, the core type), carrier assignment (CARRIER) and allowed vehicle types (VEHICLE).
PORTAL	This import is used by portal when uploading Orders from Portal.
PROCESS_ITEM	This is a bespoke interface for Toyota items.
PROC_ITM_FIX	
PRODUCT	This import allows users to upload Product information into C-TMS
PROD_ITEMS	This import allows users to upload Product Items into C-TMS
RECEIPT	This import allows users to upload Receipts into C-TMS
REGION_DATA	This import allows users to upload Region mapping into C-TMS. This import allows for addition, modification or deletion of region data.
REGION_DEPOT	This import allows users to upload Region assignments to Depot into C-TMS. This import allows for addition, modification or deletion of region depot assignment data.
RES_AVAIL	This import allows users to upload Resource Availability exceptions into C-TMS
SCHED_RULES	This import allows users to upload Schedule Rules into C-TMS. This import allows for addition and modification of scheduling rules per cost centre, customer, service level and transport mode.
SCREENING	This import allows users to upload Customer Screening Charges into C-TMS. Note that this is bespoke functionality
SHIFT_PATT	This import allows users to upload Depot Shift Patterns into C-TMS. This import allows for addition, modification or deletion of shift patterns per depot.
SKU_ORDER	This import allows users to upload SKU?s into C-TMS

Import	Description
SLOT	This import allows users to upload Slot details into C-TMS
TEAMS	This import allows users to upload Teams into C-TMS. Note that this is bespoke to Sessions Collections processing only.
TI_ORDER	This import allows users to upload Orders into C-TMS. Note that orders can only be added or deleted through this interface, not modified.
TRACTOR	This import allows users to upload Tractors into C-TMS. This import allows addition, modification or deletion of tractors and the carrier to which they are assigned.
TRAILER	This import allows users to upload Trailers into C-TMS. This import allows for addition, modification or deletion of trailers.
TYRES	This import allows users to upload Tyres cross-reference data into C-TMS. Note that this is bespoke for Fleet Maintenance processes only.
VEHICLE	This import allows users to upload Vehicles into C-TMS. This import allows addition, modification or deletion of fixed vehicles (linked tractor and trailer) and the carriers to which they are assigned.
VOLUMETRICS	This import allows users to upload Product Vehicle volumes data into C-TMS.
WMS_PRODUCT	This import allows users to upload WMS Product cross-reference data into C-TMS. Note that this is bespoke and used for Brexit export processes only.
XDOCK_PATH	This import allows users to upload XDock_Paths into C-TMS.
ZONE_CHGS	This import allows users to upload Location Zone Surcharges into C-TMS.

8.6 Further Configuration

The following System Parameters affect this functionality:

Parameter	Description	Level
BKG_INCREMENT	Increment exiting Bookings on import rather than overwriting	SYSTEM
BKG_SLOT_INACTIVATE	Controls whether existing Slots are updated to INACTIVE during a Slot Import.	SYSTEM
CLIENT_CODE_CHECK	Client code assessment for Location import	SYSTEM
CONTINGENCY_IMPORT	Contingency Import setting	COST_CENTRE
FIXED_IMPORT	Customer is using fixed order import	CUSTOMER
GEO_LOC_IMP_POST_PLAN	Populate the postal and planning regions using rules in country and static data when doing location import	SYSTEM
GEO_SLOT_IMPORT_FILE	Name of Slot Import file	SYSTEM
GEO_SLOT_IMPORT_PATH	Slot Import path	SYSTEM
IMP_BWSC_DEF_CARRIER	Default Carrier for BWSC import for self delivery suppliers	COST_CENTRE
IMP_CARRIER_LANE_COUNTRY_CODE		COST_CENTRE

Parameter	Description	Level
	Country code for each cost centre imported on Carrier_Lane - INDUSTRIAL	
IMP_COL_DATE_REQD	Collection Date must be specified for imports	COST_CENTRE
IMP_CREATE_ITEM_ID	Controls if Item identifiers are system generated in CSV	CUSTOMER
IMP_FULL_LOC_ADDR_MATCH	Check the addresses match for the location name, address line 1, postcode, country and type for imported orders before creating a new location (Y/N).	SYSTEM
IMP_LOC_ID_ONLY	Only validate the location id when importing orders not the address lines	SYSTEM
IMP_OVERRIDE_SOURCE_REF	Set source system and control additional functionality in ORD_LINE_ITM CSV order import	SYSTEM
IMP_RESET_ORD_WINDOWS	Reset Order windows during Import	COST_CENTRE
IMP_RESET_ORD_WINDOWS	Reset Order windows during Import	CUSTOMER
IMP_TI_ORDER_CALC_WEIGHTS	CSV Import - Calculate weights from dims(Y=X*Y*Z/6000)	COST_CENTRE
IMP_TI_ORDER_CHECK_SMS	CSV Import - Check contact numbers can be used as SMS numbers	COST_CENTRE
IMP_TI_ORDER_DEFAULT_DU	CSV Import - Default DU Type Method	COST_CENTRE
IMP_TI_ORDER_GEN_ITEMS	CSV Import - Generate order items from Qty	COST_CENTRE
IMP_TI_ORDER_GEN_LOC	CSV Import - Location Name generation by Post Code	COST_CENTRE
IMP_TI_ORDER_QTY_ADD	CSV Import - Add line qty	COST_CENTRE
IMP_TI_ORDER_REVENUE_LIMIT	CSV Import -Pre-call above revenue limit (Numeric Limit).0 means no pre-call	COST_CENTRE
IMP_TI_ORD_GEN_LOC_NAME	Send Supplier Collection Messages	CUSTOMER
IMP_USE_DEFAULT_DU	Use Default DU Type in import	CUSTOMER
IMP_USE_DEFAULT_DU	Use Default DU Type in import	CUSTOMER
IMP_USE_GERMAN_DECODE	Controls if location names are decoded from German	SYSTEM
OMS_UNIQUE_EXT_REF	Controls if imports can load multiple order lines	CUSTOMER
ORD_BOOKING_METHOD	CSV Import - Booking Method -HOME for home delivery, any other value for standard	COST_CENTRE
ORD_CHECK_DUPLICATE_ORDERS	For orders where source system is IMPORTS check to see if order is a duplicate - Y or N	SYSTEM
PORTAL_ORDERS	Portal Imports available	SYSTEM
PRD_ITEM_IMPORT_FILE	Name of Product Item Import file	SYSTEM
PRD_ITEM_IMPORT_PATH	Product Item Import path	SYSTEM
SCH_SCHED_ORD_IMP_IGGESUND_SCHED_DATE_OVERRIDE	When Importing IGGESUND data, can the sched_date be over-written by the SCH_SCHED_ORD_DERIVE rule?	SYSTEM

Parameter	Description	Level
SCH_SCHED_ORD_IMP_TI_ORDER_SCHED_DATE_OVERRIDE	When Importing TI_ORDER data, can the sched_date be over-written by the SCH_SCHED_ORD_DERIVE rule?	SYSTEM
UTL_IMPORT_IGNORE_INVALID_OPERATION	The import process of files will suppress the auditing of messages when a file does not exist on the server to overwrite (Y/N)	SYSTEM
ZONE_POSTCODE_CHECK	Does Zone import check the postcode	SYSTEM

9 Import Details

The following is a summary of the usage of some imports configurable in the system.

9.1 ACCOUNT

This import allows addition, modification or deletion of account data in the system.

The following fields may be specified:

- ACTION - required - one of 'A'dd (default), 'M'odify, 'D'elete
- ACCOUNT_ID - required, must be 12 characters or less
- ACCOUNT_TYPE - required, one of 'CUSTOMER', 'CARRIER', 'CENTRE', 'GROUP'
- ACCOUNT_OWNER - required, must be 12 characters or less, must be valid data in the system matching the usage type provided.
- EXT_REF - optional, if provided must be 50 characters or less
- BANK_NAME - optional, if provided must be 50 characters or less
- BANK_ACCOUNT_NAME - optional, if provided must be 50 characters or less
- BANK_ACCOUNT_NO - optional, if provided must be 50 characters or less
- SWIFT_REF - optional, if provided must be 50 characters or less
- OF_ACC_IDENTITY - optional, if provided must be 20 characters or less
- OF_SEG_COMPANY - optional, if provided must be 4 characters or less
- OF_SEG_LOCATION - optional, if provided must be 6 characters or less
- OF_SEG_ACTIVITY - optional, if provided must be 2 characters or less
- OF_SEG_CUST_CONTR - optional, if provided must be 6 characters or less
- OF_SEG_PRIME - optional, if provided must be 4 characters or less
- OF_SEG_ANALYSIS - optional, if provided must be 6 characters or less
- VAT_COUNTRY - optional, must be a vlaid country in the system.
- VAT_REG_NO - optional, if provided must be 35 characters or less
- INACTIVE - optional, 'Y', 'N'
- VAT_CTRY_CHECK - optional, 'Y', 'N'
- PAY_VAT_ALWAYS - optional, 'Y', 'N'
- PAY_VAT_DOMESTIC - optional, 'Y', 'N'
- PAY_VAT_INTRA_EU - optional, 'Y', 'N'
- PAY_VAT_INTL - optional, 'Y', 'N'
- FS_COST_CENTRE - optional, if provided must be 12 characters or less
- VENDOR_CODE - optional, if provided must be 8 characters or less
- VENDOR_SITE_ID - optional, if provided must be 15 characters or less
- IBAN_REF - optional, if provided must be 30 characters or less

9.2 ACC_SERVICES

This import allows addition or modification of additional services in the system. If not present, this will also add a payment type ofr the service.

The following fields may be specified:

- SERVICE_ID - required - if exists, this will modify the service, else add it.
- SERVICE_NAME - required for adding
- SERVICE_EVENT - required for adding - one of 'TRIP','ORDER','BOTH'
- INITIATED_FROM_TASK
- SIGNIFICANT_SERVICE

9.3 ACC_SRV_RTS

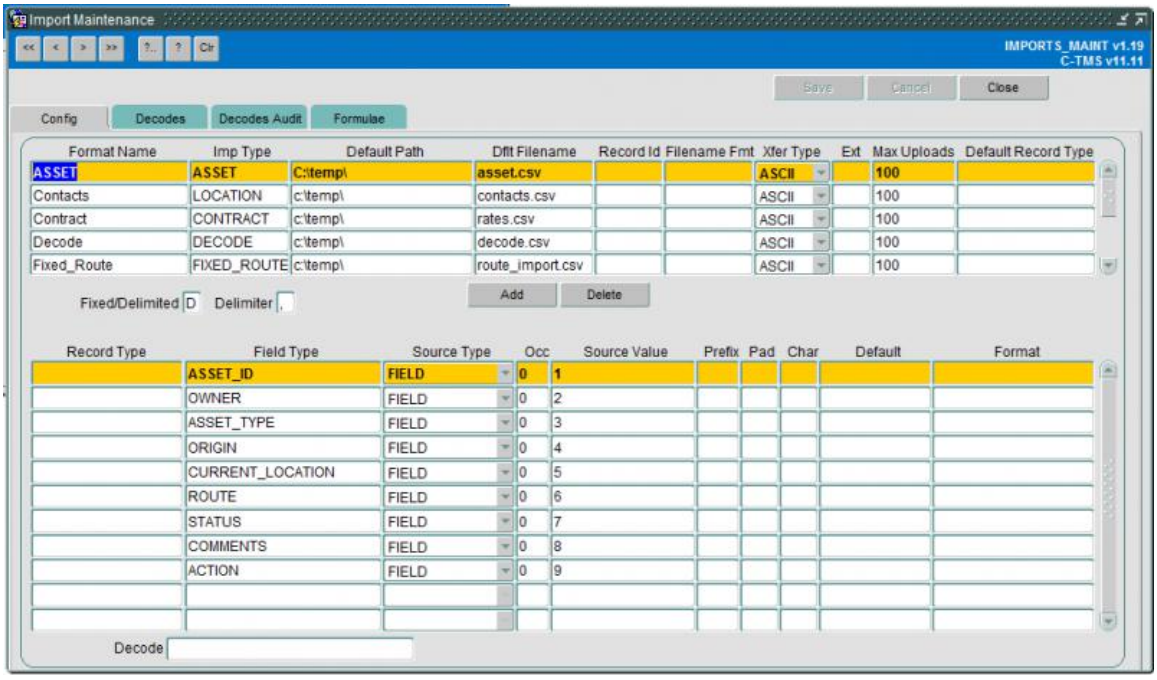
This import allows addition of additional service rates in the system.

The following fields may be specified:

- SERVICE_ID - required - must exist as an additional service in the system.
- DEBIT_ACC - required - the account may be set to ALL or must be a valid account within the system. the debit and credit accounts may not both be set to ALL. The account specified must be of type 'GROUP','CUSTOMER' when the specified service type if for an ORDER service event, or 'CENTRE' for a TRIP service event.
- CREDIT_ACC - required - the account may be set to ALL or must be a valid account within the system. the debit and credit accounts may not both be set to ALL. The account specified must be of type 'GROUP','CUSTOMER' when the specified service type if for a TRIP service event, or 'CENTRE' for an ORDER service event.
- EFFECTIVE_DATE - required - date format DD/MM/YY
- CHARGE_TYPE - optional - if provided, 'FIXED','HOURS'. If not provided, will default to the charge type of the service specified.
- AMOUNT - required.

9.4 ASSET

To support an initial upload of multiple new Assets a file import is available using the standard C-TMS Import Maintenance functionality:



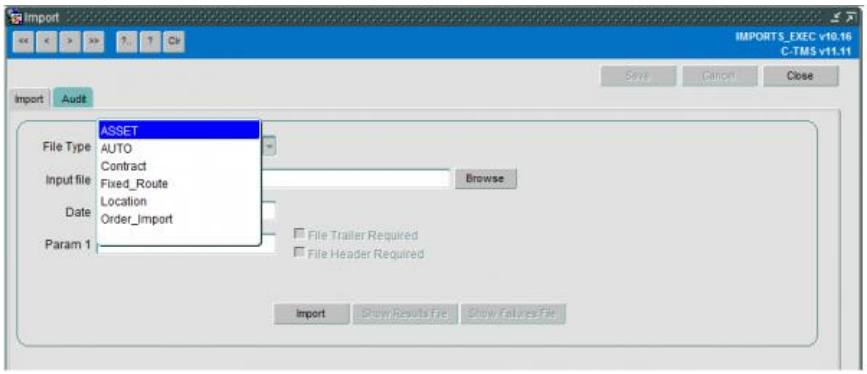
The following fields can be specified:

- ACTION - optional - 'A'dd or 'M'odify. If not provided, and the asset is not found, will default to adding, else modifying. If adding, the asset must not exist, if modifying, the asset must exist.
- ASSET_ID - required
- OWNER
- ASSET_TYPE - required when adding - must exist as a DU type marked as reusable in the system.
- ORIGIN
- CURRENT_LOCATION - required when adding - must exist as a valid location in the system.
- ROUTE
- STATUS - required - must be a valid status in the system.
- COMMENTS

Any data that does not conform to the specified format will be rejected, any errors will be reported in the results file which can be displayed on completion of the import process.

Duplicate assets will not be inserted if an asset already exists; this will be considered an update.

The standard Import screen is used to initiate the upload of the file:



When a valid asset is created/updated an associated record will be created in the Asset Audit History table to record the details of the creation or amendment.

Further configuration:

Parameter	Description	Level
UPPERCASE_ASSET_ID	Asset id to be stored in upper case	SYSTEM

9.5 BOOKING

This import can be used to create bookings in the system.

The following record types may be specified:

- BOOKING - the route header, the main import type.
- BOOKINGS_ASN
- BOOKINGS_MDD

The following fields may be specified per record type:

- BOOKING
  - BOOKING_REF
  - SOURCE_ID
  - DEST_ID
  - SCHED_NAME
  - PRODUCT
  - DU_TYPE
  - QUANTITY
  - CUSTOMER
  - COST_CENTRE
  - WEIGHT
  - VOLUME
  - SPECIAL_INSTRUCTIONS
- BOOKINGS_ASN
  - ACTION
  - DU_QTY
  - ORIGINAL_QTY
  - WEIGHT
  - VOLUME
  - IDENTIFIER
  - SOURCE_SYSTEM
  - DEL_DATE
  - BOOKING_REF
  - PRODUCT_ITEM
  - DU_TYPE
- BOOKINGS_MDD

- ACTION
- TO_LOC
- BOOKING_REF
- PRODUCT_ITEM
- PRODUCT_DESCRIPTION
- UOM
- ORIGINAL_QTY
- DEL_PRIORITY
- HANDLING_CODE1
- HANDLING_CODE2
- HANDLING_CODE3
- CARRIER_CODE
- INSPECTION_REQ
- TESTING_REQ
- DU_TYPE
- DU_QTY
- IDENTIFIER
- SOURCE_SYSTEM
- DEL_DATE
- COST_CENTRE_NAME
- CUSTOMER
- FROM_LOC

9.6 CARRIER

This import may be used to create carriers in the system.

The following fields may be specified:

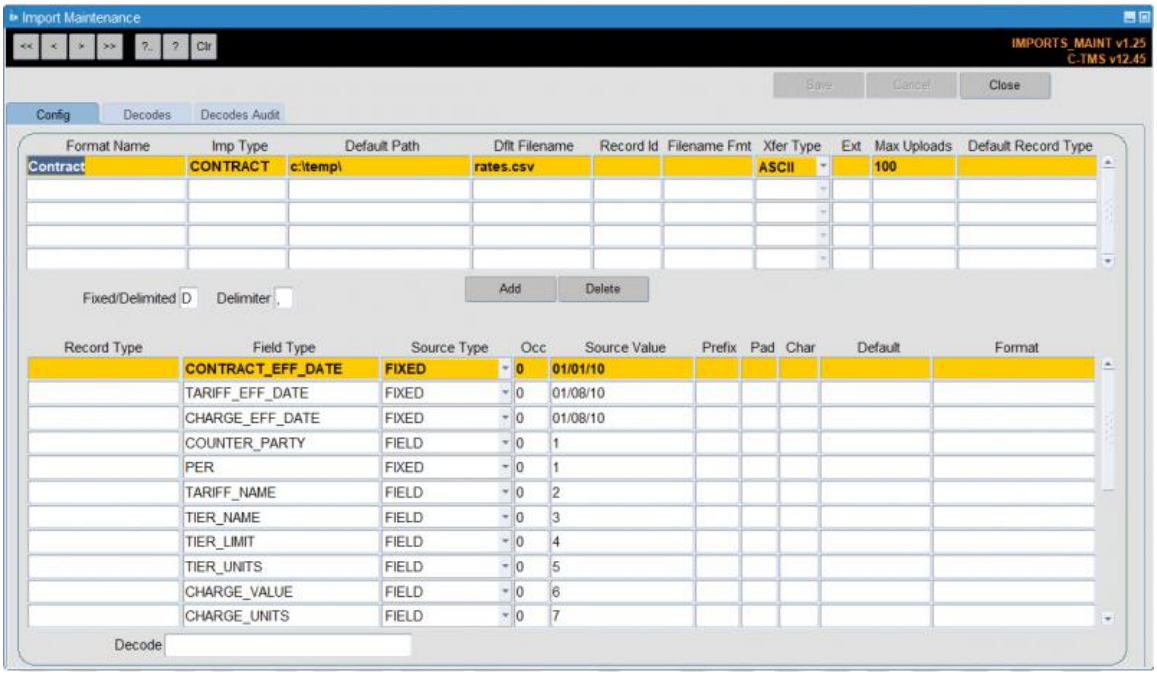
- ACTION - required - one of 'A'dd (default), 'M'odify, 'D'elete. **Note:** If the carrier is in use (i.e. is used on trips, or referenced in system or user access control parameters), then the carrier may not be deleted.
- CARRIER_ID - required - must not exist if adding, must existing if modifying or deleting
- CARRIER_NAME
- GROUP_NAME - optional - if provided, must exist as a carrier group in the system
- COST_CENTRE_NAME - optional - if provided, must exist as a cost centre in the system
- CARRIER_TYPE_ID - required when adding - if provided, must exist as a carrier type in the system
- CURRENT_HAULAGE_UNIT
- FIXED_COST_WEEKDAY
- FIXED_COST_SAT
- FIXED_COST_SUN
- HUB_LOCATION - optional - if provided, must exist as a location in the system
- ENFORCE_START_AT_HUB - 'Y','N'
- ENFORCE_END_AT_HUB - 'Y','N'
- BARCODE_TYPE
- TMS_REF
- HQ_LOCATION - optional - if provided, must exist as a location in the system
- EXPORTFILE_TYPE
- VAT_NUMBER
- VAT_COUNTRY - optional - if provided, must exist as a country in the system
- STD_SHIFT_HOURS
- STD_FACTOR
- ALTERNATE_CARRIER - 'Y','N'
- OVERTIME_FACTOR
- MAX_SHIFT_HOURS
- TRIP_THRESHOLD_HOURS
- MAX_DRIVING_HOURS
- ADDRESS_LINE1
- ADDRESS_LINE2
- ADDRESS_LINE3
- TOWN
- COUNTY
- COUNTRY_CODE - optional - if provided, must exist as a country in the system
- POSTCODE

- REGION
- PHONE
- FAX
- DRIVER_BREAK_THRES
- DRIVER_BREAK_MINS
- WORK_BREAK_THRES
- WORK_BREAK_MINS
- DISPLAY_TYPE - required - one of 'POPLIST','FREETEXT'
- CONTACT
- PERMIT_DEBRIEF - 'Y','N'
- WORK_STOPOVER_THRES
- STOPOVER_MINS
- DRIVE_STOPOVER_THRES
- MULTIPLE_TARIFFS - 'Y','N'
- INACTIVE - 'Y','N'
- EXTERNAL_DRIVER - 'Y','N'
- SMARTPHONE_ENABLED - one of 'SMARTPHONE','MICROLISE','TOMTOM'
- EMAIL
- LABEL_FORMAT - optional - if provided, must be a valid label format in the system.
- MANIFEST_FORMAT - optional - if provided, must be a valid manifest format in the system.
- PRINT_MANIFEST - 'Y','N'
- VOLUMETRIC_FACTOR
- AUTO_SCHEDULING - 'Y','N'
- MAX_DU_PER_SHIP
- PRINT_SHIPMENT_LABEL - 'Y','N'
- PAYMENT_DEADLINE
- MPG
- EPOD_ENABLED - 'Y','N'
- TRANSPORT_MODE - 'AIR','ROAD'
- ALLOW_PALLETS - 'Y','N'
- AWB_CONS_CAPTURE - 'Y','N'
- THIRD_PARTY_LABEL - 'Y','N'
- AUTO_DEBRIEF_COL - 'Y','N'
- AUTO_DEBRIEF_DEL - 'Y','N'
- SEND_TO_EPOD_COL - 'Y','N'
- SEND_TO_EPOD_DEL - 'Y','N'
- ALTERNATE_CARR_NAME
- REPORTING_CARRIER
- DEFAULT_RESOURCE - 'Y','N'
- ENFORCE_START_AT_DEL - 'Y','N'

9.7 CONTRACT

You can import contracts and tariffs through the standard Imports "CONTRACT" import format.

One will be set up for you and should be visible within the Imports Maintenance screen, accessed from C-TMS Modules, Maintenance, Imports.



The import has been set up to allow you to pre-configure various data, and to upload the rest:

Pre-configured (FIXED) data:

- CONTRACT_EFF_DATE
- TARGET_EFF_DATE
- CHARGE_EFF_DATE
- PER
- CURRENCY
- CHARGE_TYPE
- SERVICE_TYPE
- COST_CENTRE

Variable (FIELD) data (in columns of a CSV file):

1. COUNTER_PARTY
2. TARIFF_NAME
3. TIER_NAME
4. TIER_LIMIT
5. TIER_UNITS
6. CHARGE_VALUE
7. CHARGE_UNITS
8. STJ_FROM
9. STJ_TO

To use this, first change the FIXED data in the import to your desired values:

- CONTRACT_EFF_DATE - the effective date from for the contract
- TARGET_EFF_DATE - the effective date from for the tariff
- CHARGE_EFF_DATE - the effective date from for the charge
- PER - defaulting to 1
- CURRENCY - the shared currency between the two parties.
- CHARGE_TYPE - typically Order Revenue for customer contracts or Trip Cost for carrier contracts, but could be any charge types set up in the system.
- SERVICE_TYPE - the delivery type.
- COST_CENTRE - set to your cost centre, who will pay or receive payment, depending on the counter party (carrier or customer)

Next step in to prepare the import file. This should be a CSV file.

Details of the columns:

1. COUNTER_PARTY - the carrier or customer code.
2. TARIFF_NAME - a description of the tariff being configured
3. TIER_NAME - a description of the tier being configured
4. TIER_LIMIT - the limit to this tier
5. TIER_UNITS - the unit being assessed by this tier. This could be any unit set up in the system.
6. CHARGE_VALUE - the value charged per this charge line.
7. CHARGE_UNITS - the unit being charged against
8. STJ_FROM - the geographical range (standard journey) of this tariff.
9. STJ_TO - the geographical range (standard journey) of this tariff.

Note: Standard journeys are formatted as type, then a colon (:) then the value, for example "C:GB" denotes a country range for the specific country "GB" as set up in the countries system data.

- Type is one of the following:
  - "R" - Planning Region
  - "P" - Postal Region
  - "T" - Town
  - "C" - Country
  - "Z" - Zone
  - "L" - Location
- Value is the specific ID of one of the types. For example, "GB" as set up in Countries.

You can then import the file through the Imports option on Administration, File Interfaces, Imports, if your user has been authorised to use the "Contracts" import format:

- Find the format "Contracts"
- Click **Browse** and find your CSV file.
- Click **Import** and confirm any pop up messages.

You will then be able to see the contract in CTMS Modules, Maintenance, Contracts.

Example:

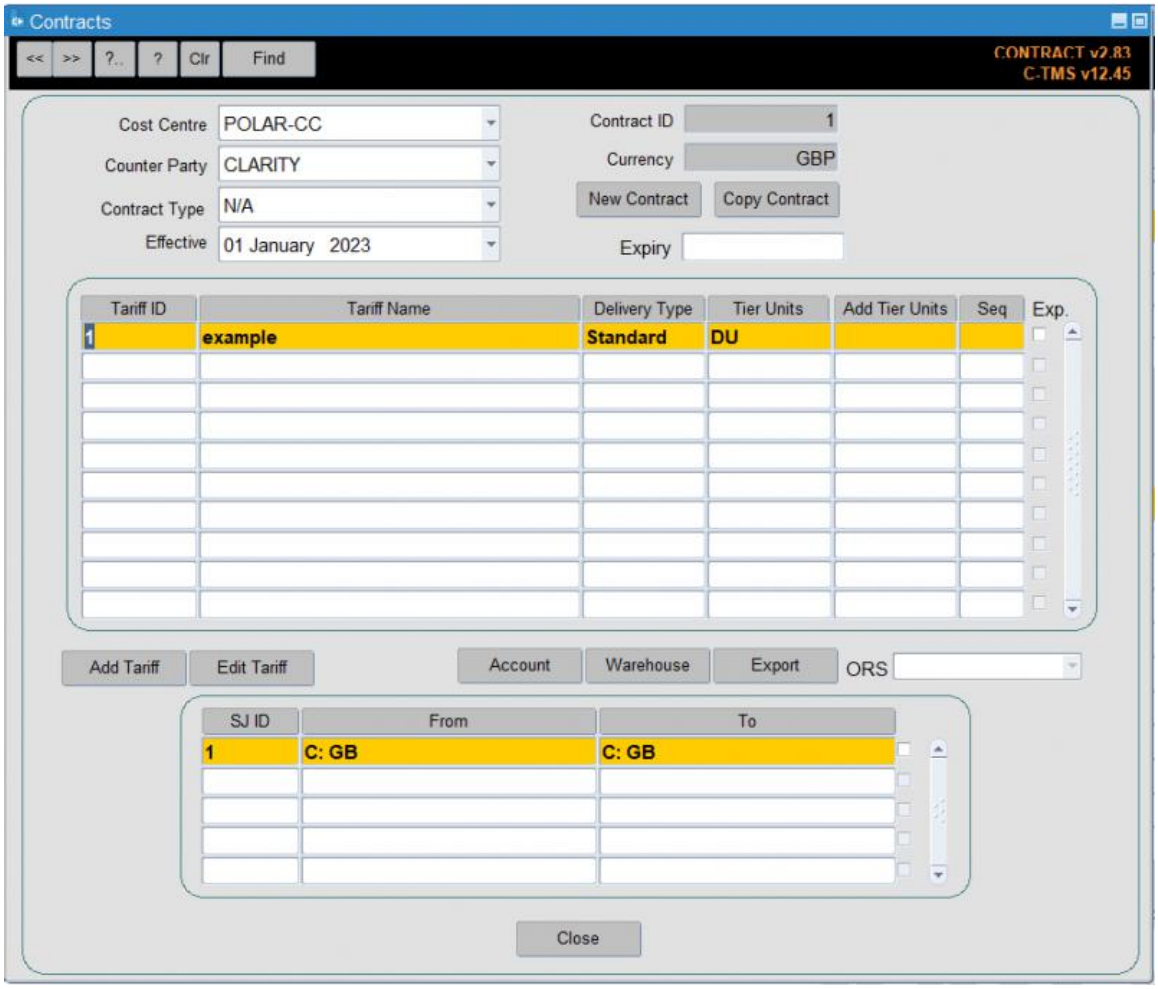
With the following fixed data:

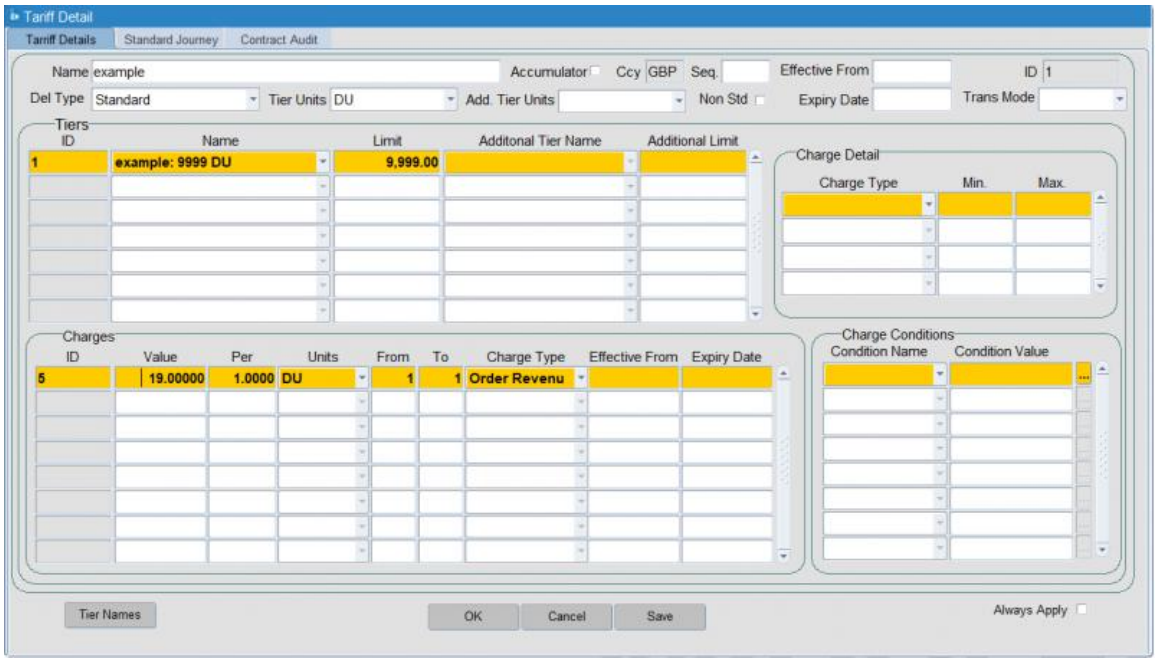
- CONTRACT_EFF_DATE - 01/01/23
- TARGET_EFF_DATE - 01/01/23
- CHARGE_EFF_DATE - 01/01/23
- PER - 1
- CURRENCY - GBP
- CHARGE_TYPE - Order Revenue
- SERVICE_TYPE - Standard
- COST_CENTRE - POLAR-CC

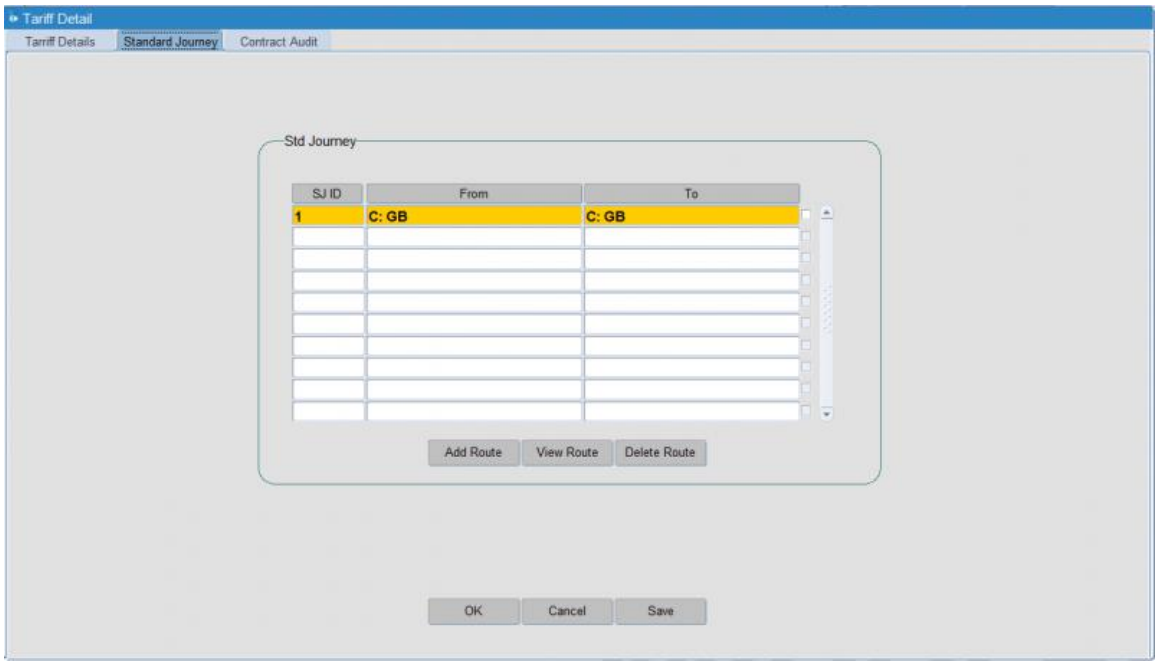
and the following CSV:

```
CLARITY,example,example: 9999 DU,9999,DU,19,DU,C:GB,C:GB
```

Will create the following contract:







The import can be modified so that you can change fixed values to variable fields, and then add columns to the CSV. You can also include charge conditions, standard journey, contract, tier and charge expiry dates, min and max charges, transport modes, etc.

9.8 CURR_USAGE

This import allows addition or deletion of account currency usage data in the system.

The following fields may be specified:

- ACTION - required - one of 'A'dd (default), 'D'elete.
- USAGE_TYPE - required, must be 12 characters or less, one of 'CUSTOMER', 'CUST_GROUP', 'CC', 'CARRIER', 'GROUP_NAME'
- USAGE_VALUE - required, must be 12 characters or less, must be valid data in the system matching the usage type provided.
- CCY_CODE - required, must be 3 characters or less, must be a valid currency in the system.

9.9 CUSTOMER

This import allows addition, modification or deletion of customers data in the system.

The following fields may be specified:

- ACTION - required - one of 'A'dd (default), 'M'odify, 'D'elete
- CUSTOMER_ID - required - must be 12 characters or less
- CUSTOMER_NAME - optional - must be 50 characters or less
- CONTACT_NAME - optional - must be 50 characters or less
- LOCATION_ID - optional - must be 12 characters or less, must exist as a location in the system.
- MTM_CUST_CODE - optional - must be 2 characters or less
- CUST_GROUP - optional - must be 12 characters or less, must exist as a customer group in the system
- COST_CENTRE_NAME - optional - must be 12 characters or less, must exist as a cost centre in the system
- VAT_COUNTRY - optional - must be 3 characters or less, must exist as a country in the system
- VAT_REG_NO - optional - must be 50 characters or less
- COUNTRY - optional - must be 3 characters or less, must exist as a country in the system
- TYPE - optional - one of 'CUSTOMER', 'BILLING_UNIT', 'BUYER', 'SUPPLIER'
- LATE_ORDER_DAYS_THLD, optional - numeric
- INT_ORD_TO_LOGNET - optional - one of 'Y', 'N'

- UNISON_IF_VALUE - optional - must be 3 characters or less
- TOK_POD_AVAIL - optional - one of 'Y', 'N'
- CONSOLIDATE_ORDERS - optional - one of 'Y', 'N'
- CONSOL_ALLOC_METHOD - optional - one of 'WEIGHT','RPE'
- ORD_REV_CHRG_TYPE_ID - optional - numeric, must exist in the system as a charging mechanism.
- LOTS_INSTALLED - optional - must be 12 characters or less
- LATE_DEL_MINS_THRLD - optional - numeric
- ORDER_LINE_CONTRACT - optional - one of 'Y', 'N'
- SEND_ORD_MSG - optional - one of 'Y', 'N'
- HIDE_ALL_ACTUALS - optional - one of 'Y', 'N'
- ALLOW_MANUAL_RPE - optional - one of 'Y', 'N'
- UPDATE_TO_DELIVER - optional - one of 'Y', 'N'
- ORDER_REASON_CODE - optional - one of 'Y', 'N'
- ITEM_REASON_CODE - optional - one of 'Y', 'N'
- LATE_REASON_CODE - optional - one of 'Y', 'N'
- USE_ALTERNATIVE_ITEM - optional - one of 'Y', 'N'
- TRIP_DEBRIEF_LEVEL - optional - one of 'Off', 'Items Only', 'Line Only', 'Line and Items'
- EARLY_DEL_MINS_THRLD - optional - numeric
- TRIP_CONF_VALIDATION - optional - one of 'Y', 'N'
- NO_MIN_COLLECTION - optional - one of 'Y', 'N'
- VALIDATE_PROD - optional - one of 'Y', 'N'
- EFX_SITE - optional - must be 40 characters or less
- AUTO_SCHED_EXCLUDE - optional - one of 'Y', 'N'
- AUTO_PLANNING - optional - one of 'Y', 'N'
- CALC_RPE - optional - one of 'Y', 'N'
- ENABLE_EPOD - optional - one of 'Y', 'N'
- PROCESS_SCAN_ITEMS - optional - one of 'Y', 'N'
- AIR_MODE - optional - numeric less than 99999
- ROAD_MODE - optional - numeric less than 99999
- LABEL_FORMAT - optional - one of 'Z','P'
- ORDER_HDR_CONTRACT - optional - one of 'Y', 'N'
- DEDICATED_CARRIER - optional - if provided, must be a carrier in the system.
- AR_ITEM_CONTENT_TYPE - optional - one of 'ITEM','CLAIM'
- AR_LABEL_REQ - optional - one of 'Y', 'N'
- AR_LABEL_FORMAT - optional - one of 'AAM','BMW'
- AR_ITEM_LABEL_REQ - optional - one of 'Y', 'N'
- AR_ITEM_LABEL_FORMAT - optional - one of 'AAM','BMW'
- AR_MANIFEST_REQ - optional - one of 'Y', 'N'
- AR_MANIFEST_FORMAT - optional - one of 'AAM','BMW'
- PICK_QTY_REQ - optional - one of 'Y', 'N'
- SUPP_DOC_FORMAT - optional - one of 'SD1','SD2','SD3','SD4','SD5','SD6'
- MIN_OWN_DRY_ICE - optional - numeric
- MIN_DRY_ICE - optional - numeric
- MIN_TAILGATE - optional - numeric
- MIN_LABOUR - optional - numeric
- CHG_PACKAGE - optional - one of 'Y', 'N'
- CHG_DRYICE - optional - one of 'Y', 'N'
- CHG_WETICE - optional - one of 'Y', 'N'
- SEND_ALC_MSG - optional - one of 'Y', 'N'
- SEND_MAR_MSG - optional - one of 'Y', 'N'
- SEND_LOA_MSG - optional - one of 'Y', 'N'
- SEND_WMS_LOAD_MSG - optional - one of 'Y', 'N'
- SEND_WMS_DESP_MSG - optional - one of 'Y', 'N'
- SEND_WMS_UNLOAD_MSG - optional - one of 'Y', 'N'
- SHIPMENT_CUST_ID - optional - must be 50 characters or less
- MU_ID - optional - must be 50 characters or less
- FACILITY_ID - optional - must be 50 characters or less

9.10 CUST_FLEET

This import allows users to upload Customer Fleets into C-TMS. This allows creation of updating of details. Note that this is specific to Fleet Maintenance users (Bespoke)

The following fields may be specified:

- CUSTOMER_ID - required - must exist as a customer
- REG_FLEET_NUMBER - required
- CURRENT_LOCATION_ID - required - must be a location for the customer, must be type BRANCH or INV, must be active
- INACTIVE - required - one of 'Y', 'N'
- VEHICLE_TYPE - required - one of 'TRACTOR', 'TRAILER', 'RIGID', 'CAR', 'VAN', 'AGRICULTURAL'
- AXLE_CONFIG - required - must be a valid axle config in the system.
- MAKE - optional
- MODEL - optional
- LAST_INSPECTION_DATE - optional
- ODO - optional
- LAST_POSITION - optional
- LAST_POSITION_DATE - optional
- LAST_POS_TIME - optional
- LAST_POSITION_TIME - optional
- AXLE_1_SIZE - optional
- AXLE_2_SIZE - optional
- AXLE_3_SIZE - optional
- AXLE_4_SIZE - optional
- AXLE_5_SIZE - optional
- AXLE_1_PSI - optional
- AXLE_2_PSI - optional
- AXLE_3_PSI - optional
- AXLE_4_PSI - optional
- AXLE_5_PSI - optional
- AXLE_1_PRODUCT_ID - optional
- AXLE_2_PRODUCT_ID - optional
- AXLE_3_PRODUCT_ID - optional
- AXLE_4_PRODUCT_ID - optional
- AXLE_5_PRODUCT_ID - optional
- AXLE_1_TREAD_DEPTH - optional
- AXLE_2_TREAD_DEPTH - optional
- AXLE_3_TREAD_DEPTH - optional
- AXLE_4_TREAD_DEPTH - optional
- AXLE_5_TREAD_DEPTH - optional

9.11 DEBRIEF

This import may be used to capture external debrief information. The process can add or update signature information. The process will set the quantity delivered against the items and set the order to POD confirmed. The delivery trip stop will be debrief with the arrival time. A reason of CD will be added to the order.

The following fields may be specified:

- OMS_REF - optional - either EXTERNAL_REF or OMS_REF must be specified. This reference is used in preference to EXTERNAL_REF to find the order. The specified order must exist in the system. The order must be planned for delivery in the system.
- EXTERNAL_REF - optional - either EXTERNAL_REF or OMS_REF must be specified.
- SIGNATORY_DATE - required
- SIGNATORY_TIME
- SIGNATORY - required
- SUBURB
- POSTCODE
- STATE
- CONSIGNMENT_NOTE
- CARRIER - required - must exist as a carrier in the system.

9.12 DECODE

This import type allows you to import decodes for imports and exports processing.

The following fields may be specified:

- DECODE_NAME - required - must exist as a decode table already set up in the system.
- SOURCE_VALUE - required. Will not be updated if the decode name and source already exists on the system.
- TARGET_VALUE - required.
    - If DECODE_NAME is LOCATION, then the target value must be a location set up on the system.
    - If DECODE_NAME is CUSTOMER, then the target value must be a customer set up on the system.
    - If DECODE_NAME is CIST_CENTRE, then the target value must be a cost centre set up on the system.
- CUSTOMER_ID - optional - if provided, then this must be a customer set up on the system.

9.13 DRIVERS

This import allows users to upload basic drivers data into C-TMS. This import supports adding, modifying and deleting drivers. **Note:** This has been superseded by the PERSON upload, which is more functional.

The following fields may be specified:

- ACTION - required - one of 'A'dd (default), 'M'odify, 'D'elete
- ID - required - must exist for modifying and deleting, must not exist for adding.
- SURNAME - required - must be less than 50 characters
- FORENAME - required - must be less than 50 characters
- JOB_TITLE - required - must be less than 50 characters, must exist as a person type in the system.
- LOCATION_ID - required - must be less than 12 characters
- CONTACT_NO - optional - must be less than 50 characters
- INACTIVE - optional - one of 'Y', 'N'
- AGENCY - optional - one of 'Y', 'N'
- SMARTPHONE_ENABLED - optional - one of 'SMARTPHONE','MICROLISE','TOMTOM','EPOD'
- EPOD_USERNAME - optional - must be less than 10 characters
- TOMTOM_ENABLED - optional - one of 'Y', 'N'

9.14 DRIVER_SHIFT

This import can be used to define shift pattern assignment to drivers.

The following fields may be specified:

- ACTION - required - one of 'A'dd (default), 'M'odify, 'D'elete
- SHIFT_CODE - required - must exist as a shift pattern in the system.
- DAYS_OF_WEEK - required - must indicate the days of week active in 'YN' format e.g. 'YYYYYNN', Monday to Sunday
- DRIVER - required - must exist as a driver in the system.
- CARRIER - required - must exist as a carrier in the system.
- START_DATE - required - date format DDMMYYYY, must be within 3 years of the current date, must identify a Monday.

9.15 DU_TYPE

This import allows addition of DU types data in the system. Also creates carrier and customer allowed DU types.

The following fields may be specified:

- DU_TYPE - required
- DU_DESCRIPTION - optional

- VOLUME - optional
- VOLUME_COLAPSED - optional
- MAX_KG - optional
- RPE - optional
- PRIORITY - optional
- ALLOW_DECIMALS - optional - one of 'Y', 'N'
- NO_VOLUME_RECALC - optional - one of 'Y', 'N'
- AVG_WEIGHT - optional
- DU_CATEGORY - optional
- REUSABLE_ASSET - optional - one of 'Y', 'N'
- WIDTH - optional
- LENGTH - optional
- HEIGHT - optional
- OWNED_PACKAGING - optional - one of 'Y', 'N'
- PRODUCT_TYPE - optional - if provided, must be a product type in the system
- FROM_LOC - optional - if provided, must be a location in the system
- TO_LOC - optional - if provided, must be a product type in the system
- CUSTOMER - optional - if provided, must be a list of customers, which will create the DU type in the locations
- CARRIER_ID - optional - if provided, , must be a list of carriers, which will create the DU type as allowable DU types for the carriers
- NEW_DU_TYPE - optional - one of 'Y', 'N' (default). If Y, creates a new DU type and tehn actions adding them to the carriers and customers if provided.
- COST_CENTRE_NAME - optional

9.16 FIXED_ROUTE

This import type allows you to import fixed route headers and details into the system.

The following record types may be specified:

- ROUTE - the route header, the main import type.
- STOP - the stops on the route header
- TRANSPORT_MODE - optional - transport modes for the route.

The following fields may be specified per record type:

- ROUTE
  - ACTION - only blank or D (default) values are allowed for this import. To delete a route, you must have administrative access to delete routes.
  - REC_TYPE - required - one of the record types above.
  - ROUTE_CODE - required. If no action has been specified, if the route exists, then the route will be modified. If the route does not exist, it will be added.
  - ROUTE_NAME - required
  - DEPOT - required - must exist as an active RDC location in the system. If the depot is inactive, and you have administrative access to activate locations, then the depot can be activated automatically.
  - MAX_TRIPS
  - ENGINE
  - PRIORITY - must be a positive number i.e. greater than 0
  - CARRIER_ID - required - must exist in the system.
  - TRAILER_TYPE - required - must exist in the system.
  - INACTIVE - optional - if provided must be 'Y', 'N'
  - RTE_DAYS - required - may be provided as a string on 'YN' or '10', where Y or 1 denote an active day.
  - START_TIME - optional - if provided, must be a time.
  - CUT_OFF_TIME - optional - if provided, must be a time.
  - OVERRIDE_HUB_TIME - optional - must be Y', 'N'
  - CALC_TIME_DISTANCE - optional - must be Y', 'N'
  - ROUTE_COST - optional - must be a positive number.
  - MAX_TRIPS_PER_DAY - optional
  - SEND_TO_PARAGON - optional - must be Y', 'N'
  - ROUTE_TYPE
  - ROUTE_END
  - SCHED_ENG_ROUTE - optional - must be Y', 'N'

- PAR_RUN - optional - Inserts or updates the run number for Paragon for the route. Uses decodes "PAR_RUN"
- TRANSPORT_MODES - optional - delimited transport mode - superseded by record type TRANSPORT_MODE below
- BANK_HOLIDAY - optional - whether the route is considered a bank holiday route, which is not managed by external processes such as Paragon Strategic Planning for Fixed Drop Scheduling Engine. Values Y or N.

- STOP - optional section
  - ID - optional - if not provided of a stop of that ID does not exist, a new stop will be created, otherwise the stop will be updated.
  - SEQ - required - must be greater than 0 and must not already exist on the route.
  - STOP_TYPE - required - must be one of 'L', 'R', 'Z', 'C'
  - LOCATION_ID - required if stop type is 'L', 'C' - must exist as an active location in the system. If the location is inactive, and you have administrative access to activate locations, then the depot can be activated automatically
  - REGION - required is stop type is 'R', 'C', 'Z'
  - MANDATORY - required - must be one of 'Y', 'N'
  - TARGET_TIME - required
  - MAX_EARLY_MINS - required
  - MAX_LATE_MINS - required
  - COLLECTION - optional - must be one of 'M', 'O'. Either COLLECTION or DELIVERY must be populated.
  - DELIVERY - optional - must be one of 'M', 'O'. Either COLLECTION or DELIVERY must be populated.
  - STOP_PRIORITY - must be a positive number i.e. greater than 0. Required for an optional stop.
  - CROSSDOCK - optional - must be one of 'Y', 'N'
  - FIXED - optional - must be one of 'Y', 'N'
  - FILL_FACTOR - optional - must be between 0 and 1
  - STOP_CUT_OFF_TIME - optional - must be a time
  - STOP_CUT_OFF_TIME_DL - optional - must be a time

- TRANSPORT_MODE - optional section
  - TRANSPORT_MODE_TYPE - required - must exist as a transport mode in the system.
  - INC_EXC - optional - must be one of 'I', 'E'

Further Configuration

Access Control Group	Description	Level
GEO_ACTIVATE_LOCATION	Ability to update an Inactive Location to Active.	Functions
RTE_DELETE_ROUTE	Ability to Delete Routes	Functions

9.17 INVOICE_RQTS

This import allows addition, modification or deletion of account data in the system.

The following fields may be specified:

- ACTION - required - one of 'A'dd (default), 'M'odify, 'D'elete
- ACCOUNT_ID - required, must be 12 characters or less, must exist as an account in the system
- CREDIT_ACC - required, must be 12 characters or less, must exist as an account in the system
- JOURNAL - optional, numeric, must exist as a journal in the system
- VAT_COUNTRY - required, must be a country code in the system
- VAT_REG_NO - optional, if provided must be 35 characters or less
- INV_TERMS - optional, if provided must be an invoice terms entry in the system.
- INV_PERIOD - optional, one of 'DAILY', 'WEEKLY', 'MONTHLY', 'DATELIST')
- INV_DAY - optional, numeric, valid value as per period provided.
- GENERATION_METHOD - optional, one of 'M','G','R','S','C'
- GENERATION_DELAY - optional, numeric
- CREATE_PROVISIONAL - optional, 'Y','N', will be set to 'N' for self-billing accounts.
- PAYMENT_METHOD - optional, one of 'Cash','Cheque','Credit Card','Direct Debit','Other Directs'
- INACTIVE - optional, one of 'Y','N'
- EXPORT_TYPE - optional, one of 'EXACT','ORACLE','CARGO','CARGO_NZ','CARGO_AU'
- DFLT_NARRATIVE - optional, must be 256 characters or less

- SEPARATE_INVOICES - optional, one of 'Y','N'
- INV_DATE_SOURCE - optional, one of 'APPROVAL','CREATION','COLLECTION','DELIVERY','ORDER_COLLECTION','SCHEDULE','SERVICE','MANUAL'
- PRVSNL_POD_RQT - optional, one of 'INCLUDE','OMIT','PREVENT'
- FILING_REF_REQD - optional, one of 'Y','N'
- BCI - optional, one of 'Y','N'
- BCI_START_DATE - optional, DateTime format
- SELF_BILL_DATE - optional, DateTime format
- MIN_CONSIGNMENT_CHRG - optional, numeric

9.18 LOCATION

This import type allows adding locations and location-based data.

There are multiple record types:

- LOCATION - the main import of the location. Required.
- CONSTRAINT - any location constraints. Optional.
- CONTACT - location contacts. Optional.
- REFERENCES - location references. Optional.
- TRAILER_TYPE - trailer types allowed or excluded at this location. Optional. If not provided, all location types are allowed.

The following fields may be specified per record type:

- LOCATION
  - REC_TYPE - required
  - LOCATION_ID - required - must not exist in the system.
  - LOCATION_TYPE - required - must exist in the system.
  - LOCATION_NAME - required - configurable as to whether this must not exist in the system via system parameters
  - PARENT_LOC_ID - optional - is supplied, must exist as a location in the system.
  - ADDRESS_LINE1
  - ADDRESS_LINE2
  - ADDRESS_LINE3
  - TOWN
  - COUNTY
  - COUNTRY_CODE - Required - must exist as a country code in the system.
  - POSTCODE
  - POSTAL_REGION - optional - the system can be configured to calculate this for you from the country code and postcode.
  - PLANNING_REGION - optional - the system can be configured to calculate this for you from the country code and postcode.
  - LATITUDE
  - LONGITUDE
  - LOADING_RATE - required - if provided, this must exist in the system data. Loading rate can be pre-populated from a default rate.
  - UNLOADING_RATE - required - if provided, this must exist in the system data. Loading rate can be pre-populated from a default rate.
  - PHONE
  - FAX
  - LINK_ID - optional. Used for C-ePOD consolidation.
  - TIMEZONE_NAME - optional - if provided, this must exist in the system data.
  - CUST_CLIENT_CODE - optional.
  - ALTERNATIVE_CODE - optional - must be 12 characters or less.
  - USAGE - creates the location usage as per the system parameter. If provided, the provided value must exist as system data on the table that the system is set up to generate location usage records, usually CUSTOMER or CUST_GROUP.
  - CONTACT_SURNAME - optional - if provided, creates a single contact against the location. Can be superseded with CONTACTS sections.
  - CONTACT_FORENAME - optional - if provided, creates a single contact against the location. Can be superseded with CONTACTS sections.

- CONTACT_PHONE - optional - if provided, creates a single contact against the location. Can be superseded with CONTACTS sections.
- CONTACT_EMAIL - optional - if provided, creates a single contact against the location. Can be superseded with CONTACTS sections.
- CONTACT_JOB_TITLE - optional - if provided, creates a single contact against the location. Can be superseded with CONTACTS sections.
- CONTACT_TITLE - optional - if provided, creates a single contact against the location. Can be superseded with CONTACTS sections.

- CONSTRAINT - optional section
  - CONS_LOCATION_ID - required - must be the location ID and must exist in the system data (or reference the location just created in this import).
  - CONSTRAINT_TYPE - required - must exist in the system
  - DAY - required - must be one of '1', '2', '3', '4', '5', '6', '7', indicating the day of the week. only 1 constraint type may exist per day specified.
  - START_TIME - required - must be a valid time
  - END_TIME - required - must be a valid time
  - VALUE - required

- CONTACT - optional section
  - CONTACT_LOCATION_ID - required - must be the location ID and must exist in the system data (or reference the location just created in this import).
  - SURNAME - required
  - FORENAME - required
  - JOB_TITLE
  - TITLE
  - PHONE
  - EMAIL

- REFERENCES - optional section
  - REF_LOCATION_ID - required - must be the location ID and must exist in the system data (or reference the location just created in this import).
  - REFERENCE_NAME - required. Must be a valid location reference in the system, specified in import decodes, type "LOC_REF_NAMES". The location ID and reference name must not exist.
  - REFERENCE_VALUE - required - must be 200 characters or less.

- TRAILER_TYPE - optional section
  - TRAILER_LOCATION_ID - required - must be the location ID and must exist in the system data (or reference the location just created in this import).
  - TRAILER_TYPE - required - must exist in the system data.
  - FILL_FACTOR - required - value supplied must be between 0 and 1.
  - INC_EXC - optional - if provided, must be values 'I' (default), 'E'. The values of TRAILER_LOCATION_ID, TRAILER_TYPE and INC_EXC must not already exist in the system.

The location will be added to the location usage following the system logic enabled by system parameters.

Further configuration:

Parameter	Description	Level
GEO_VALIDATE_LOCATION_NAME	Indicates whether the system should check for duplicate location names (as well as IDs) when creating/updating locations	SYSTEM
GEO_LOC_IMP_POST_PLAN	Populate the postal and planning regions using rules in country and static data when doing location import	SYSTEM
GEO_POP_PLANNING_REGION	Controls whether the Planning Region is populated from the look up table - Y or N.	SYSTEM
GEO_DEFAULT_LOAD_RATE	Default Loading Rate for locations.	SYSTEM
GEO_DEFAULT_UNLOAD_RATE	Default Unloading Rate for locations.	SYSTEM
MTS_LOCATION_USAGE	Controls how Locations are grouped, either via CUST_GROUP, CUSTOMER, used in Customer form to display correct tab	SYSTEM

9.19 LOC_UPDATE

This import allows you to update basic information of locations already in the system.

The following fields may be used:

- LOCATION_ID - optional. If not provided, the location ID will be derived from the name.
- LOCATION_NAME - required
- PARENT_LOC_ID - optional - if provided, must exist in the system.
- LOCATION_TYPE - required - must exist in the system
- ADDRESS_LINE1 - optional - if provided will be updated.
- ADDRESS_LINE2 - optional - if provided will be updated.
- ADDRESS_LINE3 - optional - if provided will be updated.
- TOWN - optional - if provided will be updated.
- COUNTY - optional - if provided will be updated.
- COUNTRY_CODE - required - must exist in the system.
- POSTCODE - optional - if provided will be updated.
- MASTER_LOCATION - optional - if provided must be 'Y', 'N'.
- EXT_LOCATION_NAME - optional - if provided will be updated.

Note: Planning region will be updated by system configuration

9.20 LOC_ZONES

This import allows addition or modification of location zones in the system.

The following fields may be specified:

- ZONE - required
- CUSTOMER - optional - if provided, must exist as a customer in the system.
- LOCATION_TYPE - required - one of 'COUNTRY', 'PLANNING_REGION', 'POSTAL_REGION', 'POSTAL_STRING', 'POSTCODE', 'LOCATION_ID', 'ZONE'
- COUNTRY_CODE - required if LOCATION_TYPE is one of 'PLANNING_REGION', 'POSTAL_REGION', 'POSTAL_STRING', 'POSTCODE' - must be a valid country in the system.
- FROM_RANGE - required - will be ignored if a record exists for the location type and from range specified. Must be valid data in the system matching the selection of location type.
- TO_RANGE - required - Must be valid data in the system matching the selection of location type.
- INCLUDE_EXCLUDE - required - one of 'I', 'E'
- INACTIVE - optional - 'Y', 'N'
- TOWN_SUBURB
- ROUTING_CODE
- COST_CENTRE_NAME - optional - if provided, must be a valid cost centre in the system.

Further configuration:

Parameter	Description	Level
ZONE_POSTCODE_CHECK	Does Zone import check the postcode	SYSTEM

9.21 PERSON

This import type allows adding, modifying or deleting drivers and driver attributes in the system.

The following record types may be used:

- PERSON - Person details
- CARRIER - Carrier assignment
- VEHICLE - The vehicle types that person is qualified to drive.

The following fields may be specified per record type:

- PERSON
    - REC_TYPE - one of the record types above
    - ACTION - required - one of 'A'dd (default), 'M'odify, 'D'elete
    - PERSON_ID - required. Must not exist as system data when adding, must exist when modifying or deleting.
    - FORENAME - required when adding.
    - SURNAME - required when adding.
    - JOB_TITLE - required when adding - if provided, must exist as a person type in the system.
    - LOCATION_ID - optional - if provided, must exist as a location in the system.
    - CONTACT_NO
    - INACTIVE - optional - 'N' (default),'Y'
    - AGENCY - optional - 'N' (default),'Y'
    - SMARTPHONE_ENABLED - optional - one of 'EPOD' (default),'SMARTPHONE','MICROLISE','TOMTOM'
    - EPOD_USERNAME
    - TOMTOM_ENABLED - optional - 'N' (default),'Y'
    - DOB - optional - must be a date
    - ADDRESS_1
    - ADDRESS_2
    - ADDRESS_3
    - ADDRESS_4
    - ADDRESS_5
    - START_DATE - optional - must be a date

- CARRIER - optional

CARRIER_PERSON_ID - required - must exist (or have been created above) CARRIER_ID - required - must exist as a carrier in the system. CARRIER_INACTIVE - 'Y','N'

- VEHICLE - optional

VEHICLE_PERSON_ID - required - must exist (or have been created above) VEHICLE_TYPE - required - must exist as a trailer type

9.22 REGION_DATA

This import allows addition, modification or deletion of region data in the system.

The following fields may be specified:

- ACTION - required - one of 'A'dd (default), 'M'odify, 'D'elete
- POSTAL_REGION - required - must be 15 characters or less
- PLANNING_REGION - required - must be 5 characters or less
- COUNTRY_CODE - required - must be 3 characters or less
- ALT_COUNTRY_CODE - required - must be 3 characters or less

9.23 REGION_DEPOT

This import allows addition, modification or deletion of region depot assignment data in the system.

The following fields may be specified:

- ACTION - required - one of 'A'dd (default), 'M'odify, 'D'elete
- PLANNING_REGION - required - must be 12 characters or less, must exist as a planning region in the system
- DEPOT - required - must be 12 characters or less, must exist as an RDC location in the system
- GROUP_NAME - required - must be 12 characters or less, must exist as a schedule group in the system
- ORIGIN_PORT - optional - if provided, must be 20 characters or less
- COST_CENTRE_NAME - optional - if provided, must be 20 characters or less, must exist in the system

9.24 SCHED_RULES

This import allows users to upload Scheduling rules data into C-TMS. This import supports adding and updating schedule rules.

The following fields may be specified:

- COST_CENTRE - required - must be present as a cost centre in the system.
- CUSTOMER - required - must be present as a customer in the system.
- RULE_NAME - required - must be less than 40 characters.
- CUTOFF - required - time format.
- OFFSET - required - numeric
- EARLY_TIME - required - time format.
- LATE_TIME - required - time format.
- SERVICE_LEVEL - required - must be a valid service level in the system.
- OFFSET_COLLECTION - required - numeric
- FROM_ZONE - required - must be a valid zone in the system.
- TO_ZONE - required - must be a valid zone in the system.
- TRANSPORT_MODE - required - must be a valid transport mode in the system.
- EXC_SCHED_ENG - required - one of 'Y', 'N'

Further configuration:

Parameter	Description	Level
ALLOW_SAME_DAY_DELIVERY	Customer flag. Controls whether the cutoff is updated on the schedule rule (if Y, then not updated)	ORG_CUSTOMER

9.25 SHIFT_PATT

This import can be used to define standard shift patterns per depot.

The following fields may be specified:

- ACTION - required - one of 'A'dd (default), 'M'odify, 'D'elete
- SHIFT_CODE - required - 20 characters or less - must not exist for adding, must exist for modifying or deleting.
- DEPOT - required when not deleting - must exist as an RDC location in the system.
- SHIFT_START - required - time format.
- SHIFT_END - required - time format.
- MON - required - 'Y','N'.
- TUE - required - 'Y','N'.
- WED - required - 'Y','N'.
- THU - required - 'Y','N'.
- FRI - required - 'Y','N'.
- SAT - required - 'Y','N'.
- SUN - required - 'Y','N'.

9.26 TI_ORDER

The Import functionality will be used to upload selective master data into C-TMS during the initial implementation. It will also be used to upload Manifests from Suppliers. Each import is defined by a template created in the Imports section. More details on creation of imports can be found in the Imports page.

Each template defines each data field and its position within the uploaded data file. Fixed common values can be specified rather than including all the mandatory fields within the data file.

In order to conform to the CSV upload process in use by C-TMS, the initial line of each order must be configured with a line type of "ORDER_AND_LINE", and each subsequent line for the order configured with a line type of "LINE".

It is expected that there will be a CSV import template created for each customer, with certain defaults set against it, such as the customer itself and the location from which the product is to be collected.

Note: Orders can only be added or deleted through this interface, not modified.

The format allows the following to be specified:

The following record types can be specified:

- ORDER_AND_LINE - the first line
- LINE - subsequent lines for the same order

For ORDER_AND_LINE types, the following fields may be specified:

- SPECIAL_INSTR
- BOOKING_REF
- ACTION
- EXT_REF
- SCHED_DATE
- CUSTOMER
- COST_CENTRE
- DEL_TYPE
- FRLOC_NAME
- FRLOC_TYPE
- FRLOC_ADDR1
- FRLOC_ADDR2
- FRLOC_ADDR3
- FRLOC_TOWN
- FRLOC_CNTY
- FRLOC_CNTRY
- FRLOC_C_CODE
- FRLOC_PCODE
- FROM_LOC
- TOLOC_NAME
- TOLOC_TYPE
- TOLOC_ADDR1
- TOLOC_ADDR2
- TOLOC_ADDR3
- TOLOC_TOWN
- TOLOC_CNTY
- TOLOC_CNTRY
- TOLOC_PCODE
- TOLOC_C_CODE
- TO_LOC
- EARLY_AVAIL
- LATE_AVAIL
- EARLY_DEL
- LATE_DEL
- SHIP_REF
- GROUP_NAME
- PRODUCT
- DU_TYPE
- QTY
- WEIGHT_KG
- VOL_CU_M
- FINAL_TO
- ORIG_FROM
- ORD_COMMENTS
- REC_TYPE
- QTY_IN_CASES
- DEL_POINT_REF
- ITEM_ID

- WMS_ORD_REF
- MSG_MEDIUM
- RECIPIENT_SMS
- RECIPIENT_SMS2
- RECIPIENT_SMS3
- RECIPIENT_SMS4
- RECIPIENT_EMAIL
- UN_NUMBER
- HAZARD_DESC
- HAZARD_QTY
- SERVICE_LEVEL
- CARRIER_ID
- LOC_FROM_ADDRESSEE
- LOC_TO_ADDRESSEE
- LOC_FROM_ADDRESSEE
- LOC_TO_ADDRESSEE
- LIFTS
- OVERSIZE
- FROM_LOC_CHILD
- TO_LOC_CHILD
- CONTAINER_NO
- DEL_PRIORITY
- ORD_ROUTE_CODE
- LN_HEIGHT
- LN_WIDTH
- LN_LENGTH
- LN_ITEM_DESCRIPTION
- LN_ITEM_AKA_CODE
- LN_ITEM_PACK_COUNT

For LINE types, the following fields may be specified:

- LINE_DU_TYPE
- LINE_PRODUCT
- LINE_QTY
- LINE_WEIGHT_KG
- LINE_VOL_CU_M
- LINE_QTY_IN_CASES
- LINE_ITEM_ID
- LINE_UN_NUMBER
- LINE_HAZARD_DESC
- LINE_HAZARD_QTY
- LINE_LIFTS
- LINE_HEIGHT
- LINE_WIDTH
- LINE_LENGTH
- ITEM_DESCRIPTION
- ITEM_AKA_CODE
- ITEM_PACK_COUNT

Further Configuration:

Parameter	Description	Level
SCH_SCHED_ORD_IMP_TI_ORDER_SCHED_DATE_OVERRIDE	When Importing TI_ORDER data, can the sched_date be over-written by the SCH_SCHED_ORD_DERIVE rule?	SYSTEM
IMP_TI_ORDER_GEN_LOC	CSV Import - Location Name generation by Post Code	SYSTEM
IMP_TI_ORDER_DEFAULT_DU	CSV Import - Default DU Type Method	SYSTEM
IMP_TI_ORDER_CALC_WEIGHTS	CSV Import - Calculate weights from dims(Y=X*Y*Z/6000)	SYSTEM
IMP_TI_ORDER_REVENUE_LIMIT		SYSTEM

Parameter	Description	Level
	CSV Import -Pre-call above revenue limit (Numeric Limit).0 means no pre-call	
IMP_TI_ORDER_CHECK_SMS	CSV Import - Check contact numbers can be used as SMS numbers	SYSTEM
IMP_TI_ORDER_QTY_ADD	CSV Import - Add line qty	SYSTEM
IMP_TI_ORDER_GEN_ITEMS	CSV Import - Generate order items from Qty	SYSTEM
IMP_TI_ORDER_REVENUE_LIMIT	CSV Import -Pre-call above revenue limit (Numeric Limit).0 means no pre-call	SYSTEM

9.27 TRACTOR

This import type allows adding, modifying or deleting tractors in the system.

The following record types may be specified:

- TRACTOR - the main tractor information
- TRACTOR_CARRIER - carriers to whom the tractor is available.

The following fields may be specified per record type:

- TRACTOR - required
  - ACTION - optional - one of 'A'dd (default), 'M'odify, 'D'elete
  - TRACTOR_ID - required, 12 characters or less. Must not exist as system data when adding, must exist when deleting.
  - TRACTOR_TYPE
  - DESCRIPTION
  - INACTIVE - optional - one of 'Y', 'N'
  - TRACKING_ENABLED - one of 'ISOTRAK', 'TOMTOM', 'MICROLISE'
  - TRACK_REF
  - MPG
  - CONTACT_NO
  - CARRIER_ID - optional - if provided, must exist as a carrier in the system. Mainly superseded by TRACTOR_CARRIER record type.

- TRACTOR_CARRIER - optional
  - ACTION - optional - one of 'A'dd (default), 'D'elete
  - TRACTOR_ID - required, 12 characters or less. Must not exist as system data when adding, must exist when deleting.
  - CARRIER_ID - required - if provided, must exist as a carrier in the system. Mainly superseded by TRACTOR_CARRIER record type.

9.28 TRAILER

This import type allows adding, modifying or deleting trailers in the system.

The following fields may be specified.

- ACTION - 'A'dd, 'M'odify and 'D'elete
- TRAILER_ID - required. Must not exist for adding, must exist for other actions
- TRAILER_TYPE - must exist in the system Resource data.
- INACTIVE - one of 'N' (default), 'Y'
- TRACKING_ENABLED - one of 'ISOTRAK', 'TOMTOM', 'MICROLISE'
- COST_CENTRE_NAME

9.29 TYRES

This import allows users to upload Tyres cross-reference data into C-TMS. This import supports adding and updating tyre details. Note that this is bespoke for Fleet Maintenance processes only.

The following fields may be specified:

- PRODUCT_ID - required
- CATEGORY - required - one of NON-TYRE, RETAIL, VEH_SERV, REM_SERV, TYRE, SERV_ITEMS, CHARGE
- DESCRIPTION - optional
- MANUFACTURER - optional
- BRAND - optional
- MODEL - one of AGRI, TRAILER, TRUCK, VAN, RIGID, TRACTOR, CAR
- PRODUCT_SIZE - tyre size, minus slash and R e.g. 38565225
- RADIUS - the diameter of the tyre
- PLY - optional
- PATTERN - optional
- SPEED_RATING - optional
- LOAD_INDEX - optional
- PROD_TYPE_ID - required - must be configured as a product type in the system.
- CLASSIFICATION - one of AGRI, TRAILER, TRUCK, VAN, RIGID, TRACTOR, CAR

9.30 VEHICLE

This import type allows adding, modifying or deleting fixed vehicles (e.g. vans) in the system, as opposed to spearate tractor and trailer records. These fixed vehicles are then linked.

The following record types may be specified:

- VEHICLE
- VEHICLE_CARRIER

The following fields may be specified per record type:

- VEHICLE
  - ACTION - required - one of 'A'dd (default), 'M'odify, 'D'elete
  - REG_NO - Required, 12 characters or less
  - FLEET_ID
  - VEHICLE_TYPE - required if adding - if provided, must exist as a trailer type.
  - VIN_NO
  - TOMTOM_ENABLED - 'Y','N'
  - TOMTOM_REF
  - EPOD_ENABLED - 'Y','N'
  - TAIL_LIFT - 'Y','N'
  - BLUE_LIGHT - 'Y','N'
  - VOR - Vehicle Off Road (Inactive) - 'Y','N'
  - NARRATIVE

- VEHICLE_CARRIER - optional
  - REG_NO - required - must exist as a vehicle added above
  - CARRIER_ID - required - must exist as a carrier in the system.
  - CARRIER_INACTIVE - 'Y','N'

9.31 WMS_PRODUCT

This import allows users to upload WMS Product cross-reference data into C-TMS. Note that this is bespoke and used for Brexit export processes only.

The following fields may be specified:

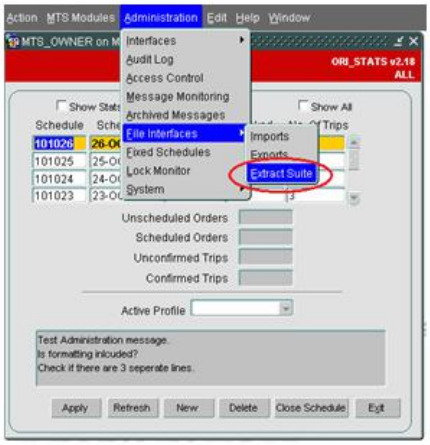
- PRODUCT_ID - required
- CATEGORY
- COO_CODE
- TARIFF_EU
- TARIFF_UK
- UNITS_PER_CASE
- PACKAGING_TYPE
- PACKAGE_COST
- VAT_RATE
- CURRENCY
- MEURSING_CODE
- GROSS_UNIT_WEIGHT
- EXCISE_CODE
- NET_CASE_WEIGHT
- DGN_PRODUCT_CODE
- QUOTA_NUMBER
- PHARMACEUTICAL_ANNEX
- DESCRIPTION

10 Data Extract Suite (ORS)

The ORS Reporting Suite is based on a number of key database tables in order to allow the user a degree of flexibility in extracting the data they require. The data is extracted into the .csv format which can be viewed in Microsoft Excel.

10.1 Accessing the Extract Suite

To gain access to the Reporting Suite, select "Administration", "File Interfaces" and "Extract Suite" (see below).



10.2 Creating a New Report

The following example details the steps required to create a new report from scratch based on "Orders".

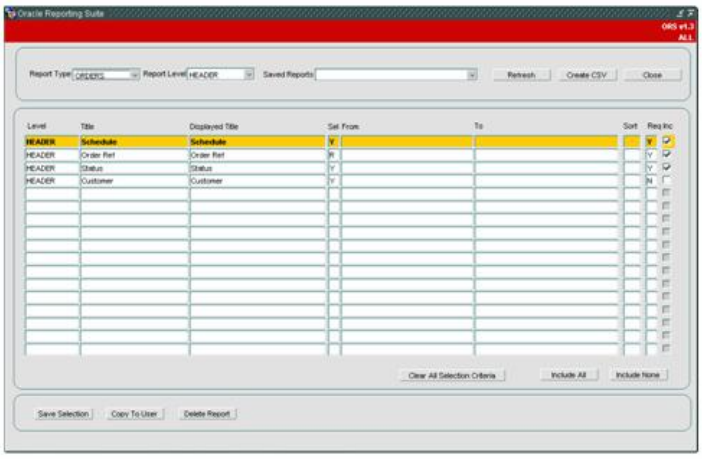
A list of all available ORS reports is available on the Assist pages.

The "Orders" report has 3 report levels (Header, Line, Items) , each allowing a different amount of information to be displayed and manipulated by the user. The table below shows the data available at each level. If Report Level Items (3) is selected then all levels above that (Line(2) and Header (1)) will also be extracted.

Report Type	Report Level	Report Level Description	Available Columns
ORDERS	1	HEADER	sched_name
ORDERS	1	HEADER	oms_ref
ORDERS	1	HEADER	status
ORDERS	1	HEADER	customer
ORDERS	2	LINE	line_no
ORDERS	2	LINE	product_type
ORDERS	2	LINE	DU_type
ORDERS	2	LINE	Quantity
ORDERS	3	ITEMS	item_identifier
ORDERS	3	ITEMS	qty_ordererd

We will begin by selecting a Report Type of "Orders" and a Report Level of "Header" as shown below.

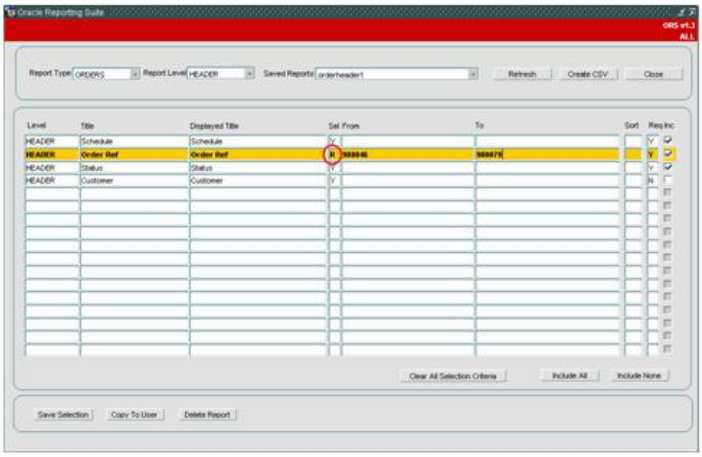
If we select a Report Type of "Orders" and "Report Level" of Header we see the following columns shown on the form.



We could run this report as it stands but it is advisable to firstly restrict the report in some way otherwise the system could try to retrieve thousands of order records which will potentially take a long time.

10.3 Restricting the Report

In this example, we will restrict the report by entering a restriction of the "order number" from 988046 to 988079. This is possible because the "Sel" column is set to "R" (Range Selection). When the column is set to "Y" you can enter a value in the "From" column only. When the column is set to "N", no restrictions can be set (see the following example).

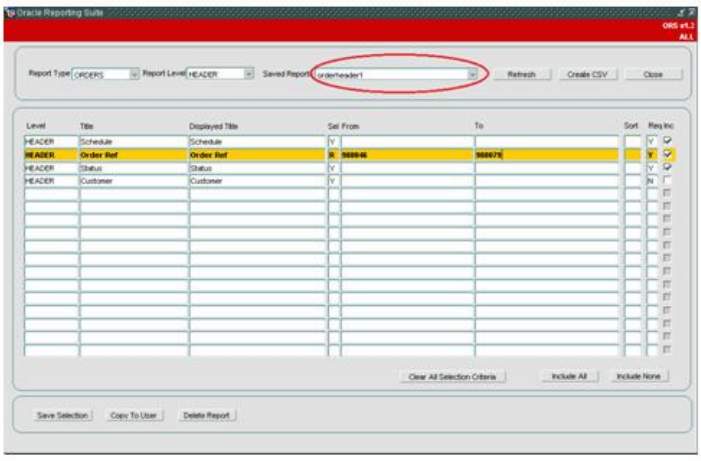


10.4 Saving the Report

When the report restriction has been decided, the user is required to click on the "Save Selection" button at the bottom left of the screen. This would display a pop-up as shown below:

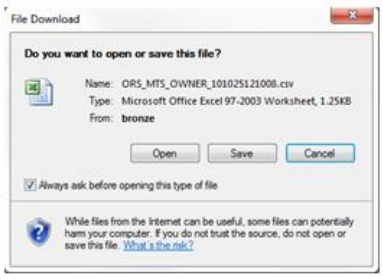
A report name needs to be entered so in this example we will enter "orderheader1" (see below).

Once the "Save Report" button is clicked, this report is saved and can be retrieved at a later date and a .csv extract file produced. Having clicked the "Save Report" button, the report name is submitted to the "Saved Reports" list of values at the top of the screen:



10.5 Creating the CSV Extract

Now we are ready to produce the extract .csv file. To do this, simply select the "Create CSV" button (having firstly done the steps in sections 2.1 and 2.2). The user will be shown the following confirmation pop-up, asking whether to open, save or cancel the extract. In this example we will select "Open".



Once the "Open" option has been selected, Microsoft Excel will open and display the contents of the .csv file (see the following .csv extract example). The time taken to do this depends on the number of records to be retrieved by the Extract Suite screen.

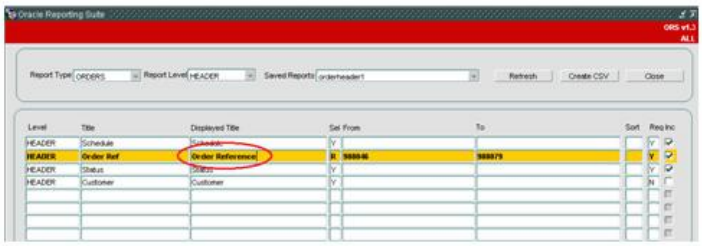
ORS_MTS_OWNER_101025121008

	A	B	C	D
1	Schedule	Order Ref	Status	
2	950612	988046	INVALID	
3	950612	988047	INVALID	
4	950612	988048	INVALID	
5	950612	988049	INVALID	
6	950612	988050	INVALID	
7	950612	988051	INVALID	
8	950612	988052	INVALID	
9	950612	988053	INVALID	
10	950612	988054	INVALID	
11	950612	988055	INVALID	
12	950612	988056	INVALID	
13	950612	988057	INVALID	
14	950612	988058	INVALID	
15	950612	988059	INVALID	
16	950612	988060	INVALID	
17	950612	988061	INVALID	
18	950612	988062	INVALID	
19	950612	988063	INVALID	
20	950612	988064	INVALID	
21	950612	988065	INVALID	
22	950612	988066	INVALID	
23	950612	988067	INVALID	
24	950612	988068	INVALID	
25	950612	988069	INVALID	

As can be seen, the 3 selected columns from the screen (Schedule, Order Ref and Status) are included in the extract file.

10.6 Amending the Report Titles

If we wished to change the Excel column titles, we need to change the "Displayed Title" on the form. In the following example, we have amended the Displayed Title from "Order Ref" to "Order Reference".



Having amended the Displayed Title, by clicking the "Create CSV" button, we can now see the amended column heading in the .csv Excel extract file.

ORS_MTS_OWNER_101026111059 [Read-Only]

	A	B	C
1	Schedule	Order Reference	Status
2	950612	988046	INVALID
3	950612	988079	INVALID
4	950612	988048	INVALID
5	950612	988049	INVALID
6	950612	988047	INVALID
7	950612	988078	INVALID
8	950612	988077	INVALID
9	950612	988050	INVALID
10	950612	988051	INVALID
11	950612	988052	INVALID
12	950612	988053	INVALID
13	950612	988054	INVALID
14	950612	988055	INVALID
15	950612	988056	INVALID
16	950612	988057	INVALID

10.7 Sorting Report Columns

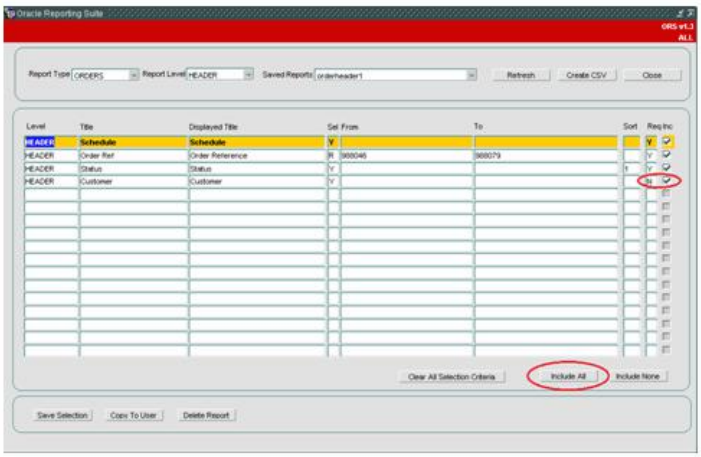
There is also the option to sort the output by entering a sort order into the "Sort" column on the form (see below). Further sorts can be done by entering 2, 3 etc.

As can now be seen, the Status column is now sorted alphabetically in the .csv Excel extract file.

28	950612	988069	INVALID	
29	950612	988070	INVALID	
30	950612	988071	INVALID	
31	950612	988072	INVALID	
32	950612	988073	INVALID	
33	950612	988074	INVALID	
34	950612	988075	INVALID	
35	950612	988076	INVALID	
36	51128	98807	SCHEDULED	
37	51128	98806	SCHEDULED	
38	51128	98805	SCHEDULED	

10.8 Using the Include All and Include None Buttons

By selecting the ""Include All" button, all of the available columns will automatically be selected which saves the user having to individually select each column they wish to include the report (this may be useful if there are many columns available to select). In the following example the "Include All" button has been pressed. This has automatically selected the only additional column which wasn?t already selected for inclusion in the .csv extract.



It is worth noting that any columns with the "Req" (required) field set to "Y" already have the "Inc" (included) check box selected. The "req" column is not normally updatable via this screen, it?s value is set in the corresponding database table.

You may change the "Req" value if your user group is configured to allow this - this affects whether the parameter is required when running the report, from here and any other system that allows running of saved ORS reports, such as Calidus Portal or CTL. **Warning**: Changing the value in this field can result in massively inefficient reports, so much care should be taken. Confirm this with your system administrator first, and they can set the function for your group (ORS_Edit_Req_Field).

Having selected the "Include All" button, we can again run the report via the "Create CSV" button and, in the following example, see the addition of an extra column to the extract .csv file.

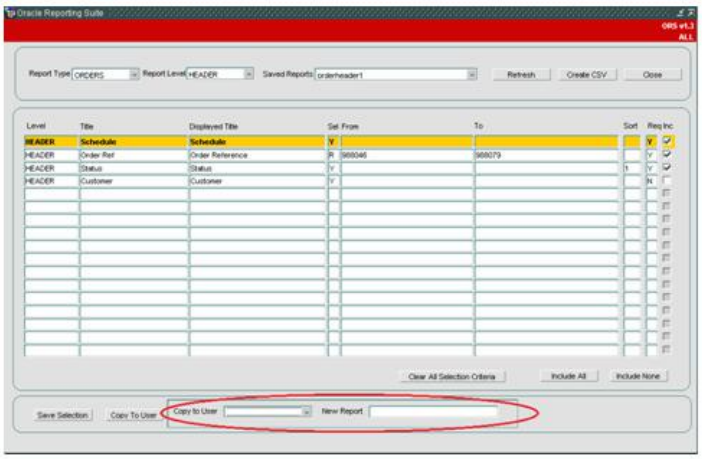
ORS_MTS_OWNER_101025031031 [Read-Only]

	A	B	C	D
1	Schedule	Order Reference	Status	Customer
2	950612	988046	INVALID	HYGENA
3	950612	988079	INVALID	HYGENA
4	950612	988048	INVALID	HYGENA
5	950612	988049	INVALID	HYGENA
6	950612	988047	INVALID	HYGENA
7	950612	988078	INVALID	HYGENA
8	950612	988077	INVALID	HYGENA
9	950612	988050	INVALID	HYGENA
10	950612	988051	INVALID	HYGENA
11	950612	988052	INVALID	HYGENA
12	950612	988053	INVALID	HYGENA
13	950612	988054	INVALID	HYGENA
14	950612	988055	INVALID	HYGENA
15	950612	988056	INVALID	HYGENA
16	950612	988057	INVALID	HYGENA
17	950612	988058	INVALID	HYGENA
18	950612	988059	INVALID	HYGENA
19	950612	988060	INVALID	HYGENA
20	950612	988061	INVALID	HYGENA

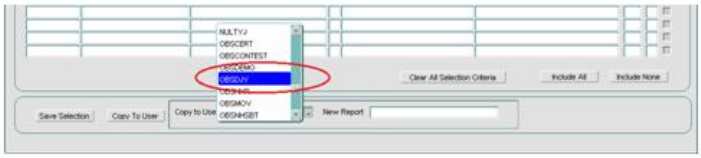
If the "Include None" button is selected then all of the fields which don?t have the "Req" field set to "Y" will be unchecked and removed from the report extract.

10.9 Using the Copy To User Function

The "Copy to User" button allows the current report to be copied to another user. When the button is pressed a pop-up is shown which allows a user to be selected where the report is to be copied to. The new report name also needs to be entered here.



Selecting the user is done via a list displaying the users where the report can be copied to.



The new report name should be entered in the field provided. This will then be accessible to the user selected. The information is saved upon pressing return after filling out the new report name.

If we were now to log onto the system as the user who has had the report copied to (e.g. OBSDJY) we can select the report from the "Saved Reports" list and all the selected column details (restrictions on the order reference column and the sort on the status column) are accessible by the new user (see the following example).

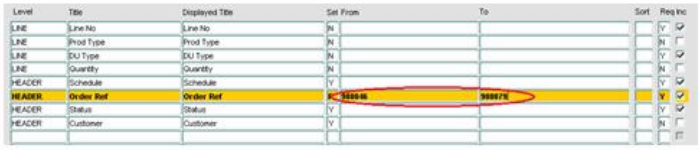
10.10 Clear All Selection Function

The "Clear All Selection Criteria" button simply allows the user to clear all of the "From" and "To" selection criteria (if any exists).

10.11 Creating an Order Line Report

As previously stated, the "Orders" report has 3 different levels of report (Header, Line and Items). If we now click the "Refresh" button at the top of the screen (to clear all the existing report details and reset the form) and then select a new report type of "Orders" and a Report Level of "Line", we can see the following details on the form. The order line details have now been added to the existing order header details.

Again, we will enter some restrictions on the report (in the order reference field) to restrict the report. See below:



We will save the report as "orderlines1" by clicking on "Save Selection" and then "Save Report".

If we were now to run the extract via the "Create CSV" button we would get an extract file similar to the following example. Note that the "Included" order line columns (Line No and DU Type) have been included in the extract file. We didn?t include the remaining order line columns (Prod Type and Quantity) so these have not been included.

ORS_MTS_OWNER_101026091059[1]

	A	B	C	D	E
1	Schedule	Order Ref	Status	Line No	DU Type
2	950612	988046	INVALID	1	Packs
3	950612	988047	INVALID	1	Packs
4	950612	988048	INVALID	1	Packs
5	950612	988049	INVALID	1	Packs
6	950612	988050	INVALID	1	Packs
7	950612	988051	INVALID	1	Packs
8	950612	988052	INVALID	1	Packs
9	950612	988053	INVALID	1	Packs
10	950612	988054	INVALID	1	Packs
11	950612	988055	INVALID	1	Packs
12	950612	988056	INVALID	1	Packs
13	950612	988057	INVALID	1	Packs
14	950612	988058	INVALID	1	Packs
15	950612	988059	INVALID	1	Packs

10.12 Creating an Order Item Report

Next we will look at the Order Items report. If we now click the "Refresh" button and entered new report details of Report Type = "Orders" and Report Level = "Items", we would get a report looking similar to the following example.

Once we have entered the restriction criteria for the new report (e.g. Order Reference 988046 to 988079), we should click "Save Selection" and enter the Report Name of "orderitems1". Finally, click "Save Report" so it can be retrieved later.

Now run the report via the "Create CSV" button and we should the addition of the order items to the orders extract file (if any exists).

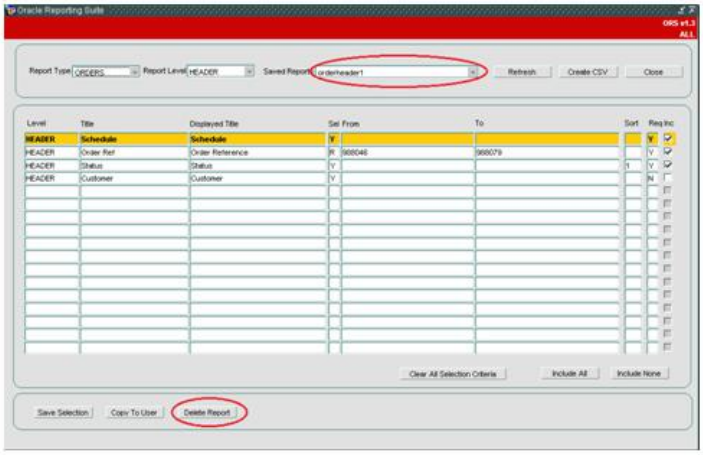
ORS_MTS_OWNER_101026121037 [Read-Only]

	A	B	C	D	E	F
1	Schedule	Order Ref	Status	Line No	DU Type	Item ID
2	950612	988066	INVALID	1	Packs	
3	950612	988078	INVALID	1	Packs	
4	950612	988069	INVALID	1	Packs	
5	950612	988067	INVALID	1	Packs	
6	950612	988050	INVALID	1	Packs	
7	950612	988063	INVALID	1	Packs	
8	950612	988074	INVALID	1	Packs	
9	950612	988047	INVALID	1	Packs	
10	950612	988079	INVALID	1	Packs	
11	950612	988071	INVALID	1	Packs	
12	950612	988073	INVALID	1	Packs	
13	950612	988065	INVALID	1	Packs	
14	950612	988068	INVALID	1	Packs	
15	950612	988057	INVALID	1	Packs	

10.13 Deleting a Report

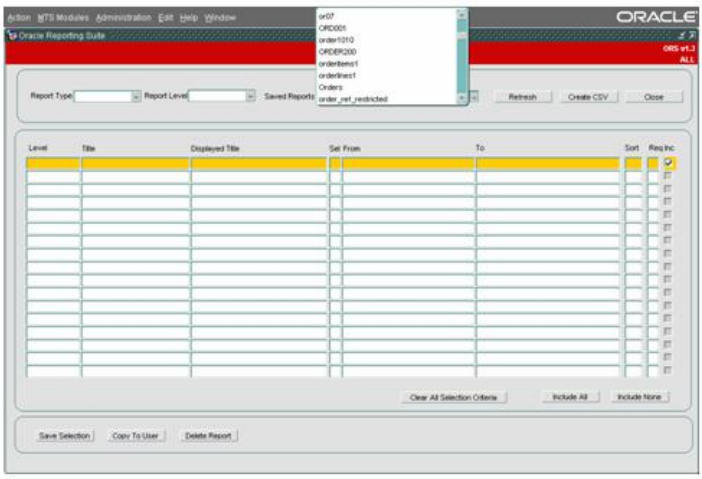
By firstly selecting a report (e.g. orderheader1) we can delete the report via the "Delete Report" button.

Once the "Delete Report" button has been pressed, a confirmation message appears to check if the report can actually be deleted.



If the "OK" button is selected then the report will be deleted for the current user. If the report has been copied to another user before deletion then this report will still exist for that user after deletion. After the report has been deleted, we can see by trying to select the report via the "Saved Reports" button that the report no longer exists for this user.

As can be seen above, the report "orderheader1" is no longer shown in the "Saved Reports" list. If after deletion, there was a requirement to retrieve this report we could log on as the user we copied the original report to in section 2.7.



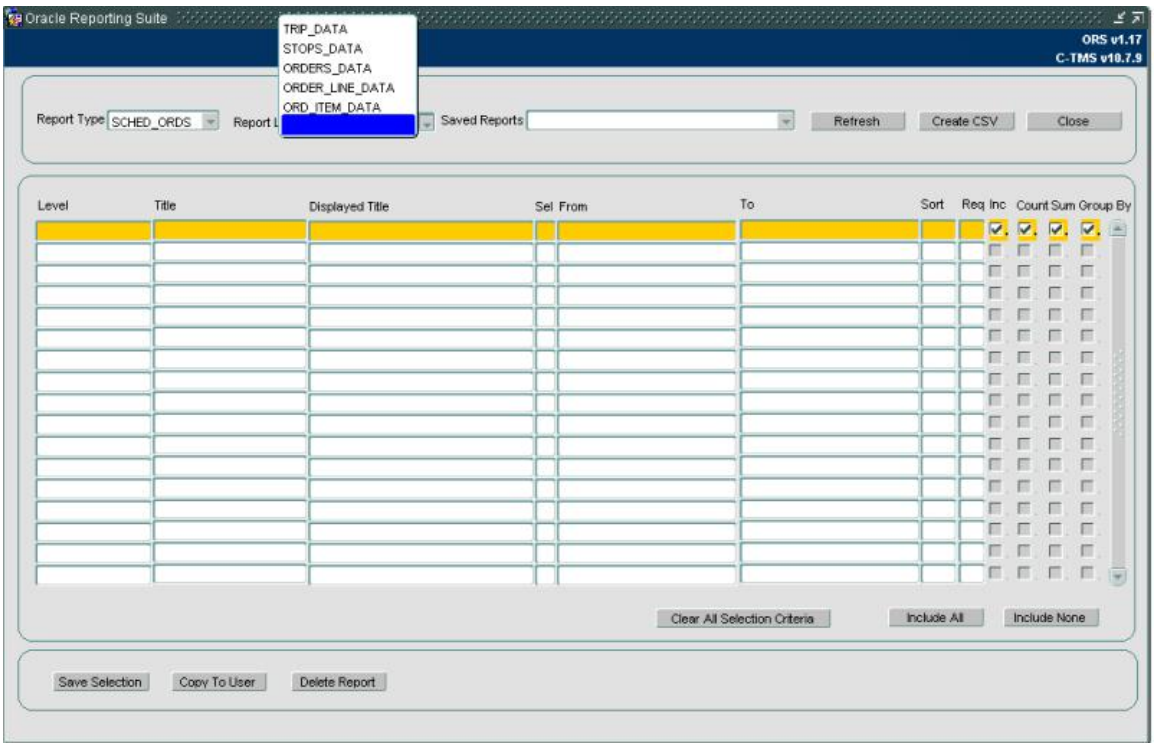
As can be seen above, the report "orderheader1" is no longer shown in the "Saved Reports" list. If after deletion, there was a requirement to retrieve this report we could log on as the user we copied the original report to in section 2.7.

10.14 Count, Sum and Group By

ORS reports allow aggregate functions Count, Sum and Group By.

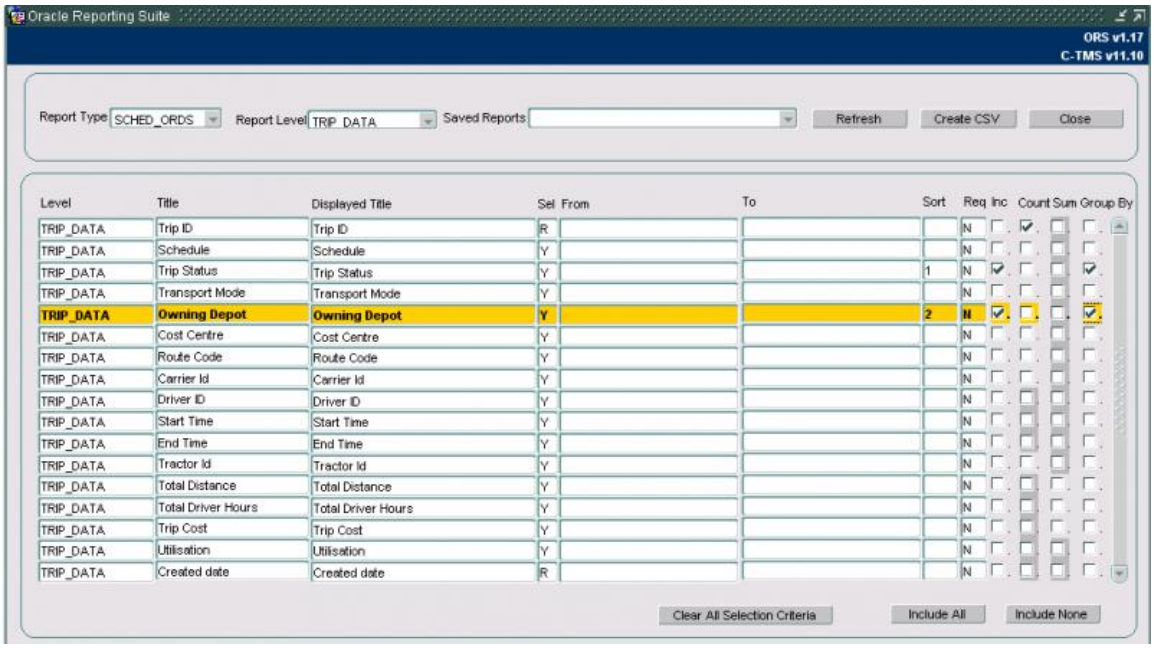
Note: A system Parameter ORS_SUMMARY controls the display of the Oracle Report suite screen.

When this parameter is set to Y, users are able to group, sum and count information within the report extracts. When this parameter is set to N, the grouping and summary fields will not be available on the screen.



You may only count or sum columns from the lowest level selected. For all other levels, the count and sum will be disabled.

If you choose to select a sum or count, all other columns selected which are not a summary must be selected as a group by. In addition to the group by, the sort order is also required.



In the above example, a new report has been created based on the highest report level within SCHED_ORDS, TRIP_DATA. We are able to select from all the columns available within the TRIP_DATA section.

We have chosen to generate a report which counts the number of trips at each status for each owning depot. To generate this correctly, we have identified the trip id as a count field and defined the sort level for Status and owning depot, with the "group by" ticked.

This will produce an extract similar to the following:

```
COUNT(ST.TRIP_ID), Trip Status, Owning Depot
1, ACCEPTED, DEPOT1
3, ACCEPTED, DEPOT2
8, COMPLETED, DEPOT2
1, DELETED, DEPOT1
3, DELETED, DEPOT2
2, DELETED, DEPOT3
1, EN-ROUTE, DEPOT1
1, EN-ROUTE, DEPOT2
1, PLANNED, DEPOT1
1, PLANNED, DEPOT2
```

10.15 Scheduling ORS Reports

Details of this can be found here: EDI - Report/Extract Scheduling.

10.16 Further Configuration

The following System Parameters affect this functionality:

Parameter	Description	Level
ORS_DELIMITER	Oracle reporting suite data field delimiter	SYSTEM
ORS_SUMMARY	Allow the summarisation OF ORS reports	SYSTEM
ORS_TYPE_DEF_GROUP_BY	List of the ORS types to default group by fields	SYSTEM
ORS_TYPE_EXC_GROUP	Exclude ORS types from grouping fields	SYSTEM

The following Access Control Group Accessible Functions affect this functionality.

Function	Description
ORS_Edit_Req_Field	Ability to edit required fields in ORS report

11 ORS Reports List

The following is a list of all available ORS reports.

Note: Not all ORS reports are delivered as standard but can be added to the system.

Type	Level	Name	Description	S/T	Data Reported
3PL_CARR	1	3PL_CARR	Reports on Carrier and trip assigned to 3rd-party carriers (designated as 3PL)	Transactional	Trip
ACCOUNT	1	CONTRACTS_OUT	Reports on Accounts and Invoice Requirements set up in the system.	Standing Data	Finance
ACC_ACCNT	1	ACC_ACCNT	Reports on Account set up in the system	Standing Data	Finance
ACC_SRVCS	1	ACC_SRVCS	Reports on Account Services set up in the system (services supplied)	Standing Data	Finance
ACC_SRVCS	2	SLIDING_CHG	Adds Sliding Charges from the services supplied to the report	Standing Data	Finance
ASSETS	1	DETAIL	Reports on Permanent assets configured in the system.	Standing Data	Asset
ASSETS	2	HISTORY	Adds the history of events against the assets to the report.	Transactional	Asset
AWB	1	AIRWAY BILL	Reports on AWBs created through Calidus MCS.	Transactional	Item
AWB_CONS	1	AWS CONS	Reports on AWBs and Consignments to Shipments	Transactional	Trip
CARRIERS	1	HEADER	Reports on the Carriers core information set up in the system.	Standing Data	Carrier
CARR_ALLOC	1	CARRIER ALLOCATION	Reports on Carrier and tendered trip assigned to 3rd-party carriers (designated as 3PL)	Transactional	Trip
CARR_CLASS	1	CLASSES	Reports on Carrier Rules Commodity Class.	Standing Data	Carrier
CARR_COMMS	1	COMMODITIES	Reports on Carrier Rules Commodity.	Standing Data	Carrier
CARR_DUS	1	DUS	Reports on Carrier Du Types	Standing Data	Trip
CARR_MANF	1	CARR_MANF	Reports the full data from Trip down to Order Lines i.e. manifest data.	Transactional	Trip, Order, Line, Item
CARR_PRODS	1	PRODUCTS	Reports on Carrier Product Types	Standing Data	Carrier
CARR_ROUTE	1	ROUTES	Reports on Carrier Routes configured in the system	Standing Data	Carrier
CARR_ROUTE	2	ROUTE_DETAILS	Adds Carrier Route Services to the report	Standing Data	Carrier
CARR_SHIP	1	SHIPMENTS	Reports on Carrier Shipment rules	Standing Data	Carrier
CONTRACTS	1	CONTRACTS	Reports on Contracts configured in the system	Standing Data	Finance
CONTRACTS	2	TARIFFS	Adds Tariffs to the report	Standing Data	Finance
CONTRACTS	3	TIERS	Adds Tiers to the report	Standing Data	Finance
CONTRACTS	4	CHARGES	Adds Charges to the report	Standing Data	Finance
CONTRACTS	5	CHARGE DETAILS	Adds Charge Details to the report	Standing Data	Finance
CONTRACTS	6	CONDTITIONS	Adds Charge Conditions to the report	Standing Data	Finance

Type	Level	Name	Description	S/T	Data Reported
CONTRACTS	7	VEHICLE	Adds Vehicle to the report	Standing Data	Finance
CONT_JRNY	1	CONT_JRNY	Reports on Contracts and Tariffs on standard journeys (geographical restrictions)	Standing Data	Finance
CUSTOMERS	1	CUSTOMERS	Reports on Customers core information configured in the system.	Standing Data	Customer
CUST_CHRGS	1	CUST_CHRGS	Reports on Customer Charges configured in the system for a customer.	Standing Data	Customer
CUST_COST	1	CUST_COST	Reports on Customer Cost Plus configured in the system for a customer.	Standing Data	Customer
CUST_DATA	1	CUST_DATA	Reports on Customer Cut-offs configured in the system for a customer.	Standing Data	Customer
CUST_FUEL	1	CUST_FUEL	Reports on Customer Fuel Surcharges configured in the system for a customer.	Standing Data	Customer/Finance
CUST_FUELC	1	CUST_FUELC	Reports on Customer Fuel Surcharges configured in the system for a customer.	Standing Data	Customer/Finance
CUST_PAIN	1	CUST_PAIN	Reports on Customer Pain/Gain rules configured in the system for a customer.	Standing Data	Customer
CUST_PREFS	1	CUST_PREFS	Reports on Customer Prefs configured in the system for a customer.	Standing Data	Customer
CUST_SCHED	1	CUST_SCHED	Reports on Customer Schedule Engine Thresholds configured in the system for a customer.	Standing Data	Customer
CUST_SEC	1	CUST_SEC	Reports on Customer Secure Transport configured in the system for a customer.	Standing Data	Customer
CUST_SEC_C	1	CUST_SEC_C	Reports on Customer Security configured in the system for a customer.	Standing Data	Customer
DEL_TIMES	1	MORNING-DELTIMES	A "Morning Report", showing Delivery Times from trips executed.	Transactional	Trip, Item
DEL_TRIPS	1	DEL_TRIPS_ORD	Reports on Trips and Trip Stops and Orders.	Transactional	Trip, Stop, Order
DEL_TRIPS	2	DEL_LINE_DATA	Adds Order Lines to the report.	Transactional	Line
DEL_TRIPS	3	DEL_ITEM_DATA	Adds Order Items to the report.	Transactional	Item
DOOD_RPT	1	STANDARD	Day out of Days report for Lane orders.	Transactional	Trip
DRIVERS	1	HEADER	Reports on Drivers/Crew configured in the system.	Standing Data	Resource
DU_TYPES	1	DU_TYPES	Reports on DU types configured in the system	Standing Data	Resource
EX_CARRIER	1	HEADER	Reports on the Carriers core information set up in the system.	Standing Data	Carrier
EX_HAUL	1	HEADER	Reports on the Haulage Activity for executed trips (Load/Unload)	Transactional	Trip, Stop
EX_LOC	1	HEADER	Reports on the Locations set up in the system, and the usage (which Customer/Group they "belong" to)	Standing Data	Geographical
EX_ORDHEAD	1	HEADER	Reports on Orders, Locations and Contacts.	Transactional	Order
EX_ORDHEAD	2	ORD_ITEM_DATA	Adds Items to the report	Transactional	Item

Type	Level	Name	Description	S/T	Data Reported
EX_ORDITEM	1	HEADER	Reports on Order Items on orders	Transactional	Item
EX_ORDLINE	1	HEADER	Reports on Order Lines on orders	Transactional	Line
EX_PERSON	1	HEADER	Reports on Drivers/Crew configured in the system.	Standing Data	Resource
EX_TRACTOR	1	HEADER	Reports on Tractors or Vehicles configured in the system.	Standing Data	Resource
EX_TRAILER	1	HEADER	Reports on Trailers or Vehicles configured in the system.	Standing Data	Resource
EX_TRIP	1	HEADER	Reports on Trip Header information.	Transactional	Trip
EX_TRPSTOP	1	HEADER	Reports on Trips and Stops information.	Transactional	Trip, Stop
FAILED	1	MORNING-FAILED	A "Morning Report", showing Failed items i.e. items not delivered.	Transactional	Trip, Item
FIX_ROUTE	1	ROUTES	Reports on Fixed Routes configured in the system.	Standing Data	Planning
FIX_ROUTE	2	ROUTE_STOPS	Reports on Fixed Routes and Stops configured in the system.	Standing Data	Planning
HAULIER	1	SCH_TRIP	Reports on Trips and Stops information.	Transactional	Trip, Stop
HELD	1	MORNING-HELD	A "Morning Report", showing failed items that are to be held at the outbase for redelivery.	Transactional	Trip, Item
IMP_DECODE	1	IMP_DECODE	Reports on any configured import/export decode tables and data set up in the system.	Standing Data	Import
INTERFACE	1	INTERFACE	Reports on interface triggered events.	Transactional	EDI
INT_XML	2	DETAIL	Adds detail information to the report.	Transactional	EDI
INV_TYPE	1	INVOICES_DATA	Reports on Invoices generated for accounts.	Transactional	Finance
INV_TYPE	2	PAYMENTS_DATA	Adds Payment data included on an invoice to the report.	Transactional	Finance
LABOUR	1	SCH_ORD_LABOUR	Reports on Labour for orders.	Transactional	Order
LOCKED_OUT	1	LOCKED_OUT	Reports on Payments generated against Orders where the status is F or A	Transactional	Finance
MCS_DTLS	1	MCS_DETAILS	Reports on Items scanned or to be scanned through Calidus MCS	Transactional	MCS
NAVTEQ	1	HEADER	Reports on Geocoding and Route Time/Distance calculations called from external systems.	Standing Data	Geographical
NETWORK	1	LOCATIONS	Reports on Network Locations in the system, for time and distance calculations	Standing Data	Geographical
NETWORK	2	DRIVE_TIME_DETAILS	Adds drive time details from that location to other locations to the report.	Standing Data	Geographical
NON_CONF	1	HEADER	Reports on Order Non-conformance Information .	Transactional	Order
NON_CONF	2	LINE	Adds Lines to the report	Transactional	Line
NON_CONF	3	ITEMS	Adds Items to the report	Transactional	Item
NON_CONF	4	NON_CONFORM	Adds non-conformance/reasons information to the report	Transactional	Item History
O/S SCANS	1	MISSING_SCANS	Reports on items not scanned through Calidus MCS.	Transactional	MCS
OPEN_AWB	1	V_MCS_OPEN_AWB	Reports on Open AWBs through Calidus MCS	Transactional	MCS
ORDERS	1	HEADER	Reports on Order Header Information	Transactional	Order

Type	Level	Name	Description	S/T	Data Reported
ORDERS	2	LINE	Adds Lines to the report	Transactional	Line
ORDERS	3	ITEMS	Adds Items to the report	Transactional	Item
ORDER_ITEM	1	ORD_ITEM_DATA	Reports on Order Items on orders (including order information relating to the From and To locations)	Transactional	Item
ORDER_ITEM	1	ORD_ITEM_CONT	Adds Item Contents to the report	Transactional	Item
ORDLN_TYPE	1	ORDER_LINE_DATA	Reports on Order Lines, including Location and Customer information.	Transactional	Line
ORD_IN_INV	1	ORD_IN_INV_DATA	Bespoke order invoice report	Transactional	Finance
ORD_OFFSET	1	ORDER_OFFSETS	Reports on Location time offsets configured in the system.	Standing Data	Geographical
ORD_STATS	1	SCH_ORDER_STATS	Reports on Order Stats - summary report of orders created, delivered or for delivery.	Transactional	Order
ORD_TYPE	1	ORDERS_DATA	Reports on Orders (including order information relating to the From and To locations)	Transactional	Order
OWN_CHRGS	1	OWN_CHARGES	Reports on Own Package Charges	Standing Data	Finance
PALLETS	1	PALLETS	Reports on Shipment Pallets created in Calidus MCS	Transactional	MCS
PALLETS	2	PALLET_ITEM	Adds Items to the report	Transactional	MCS
PALL_ITEM	1	PALLET_ITEM	Reports on Shipment Pallet Items created in Calidus MCS	Transactional	MCS
PAYMENTS	1	PAYMENTS_DATA	Reports on generated payments of all types	Transactional	Finance
PAYMENTS	2	EVENT_DETAILS	Adds event details to the report	Transactional	Finance
RE-DELIVER	1	SCH_ORD_RE_DEL	Reports on history of rebooked orders.	Transactional	Order
REASONS	1	ORD_ITEM_DATA	Reports on Order Item non-confirmances	Transactional	Item History
REASONS	2	ORD_ITEM_REASON	Adds Reason Code Information to the report	Transactional	Item History
RES_EQUIP	1	SCH_ORD_RES_EQUIP	Reports on Order Equipment Requirements.	Transactional	Order
RPE_CUST	1	RPE_CUST	Bespoke customer RPE data.	Standing Data	Resource
RTE_COSTS	1	RTE_COSTS	Reports on fixed costs against routes	Standing Data	Planning
RULES	1	RULES	Reports on Schedule Rules configured in the system.	Standing Data	Planning
SCANS	1	TRIP	Reports on Trips	Transactional	Trip
SCANS	2	STOP	Adds Stop information to the report.	Transactional	Stop
SCANS	3	ORDER	Adds Order and Item information to the report.	Transactional	Order, Items
SCANS	4	ASSET	Adds Permanent Asset information to the report.	Transactional	Asset
SCANS	5	REASON	Adds non-conformance/reasons information to the report	Transactional	Reasons
SCHED_ORD2	1	TRIP_DATA	Reports on Trip, Stop and Location information.	Transactional	Trip
SCHED_ORD2	2	STOPS_DATA	Adds Haulage Activity to the report	Transactional	Stop
SCHED_ORD2	3	ORDERS_DATA	Adds Order, Contact and Customer information to the report.	Transactional	Order
SCHED_ORD2	4	ORDER_LINE_DATA	Adds order line information to the report.	Transactional	Line
SCHED_ORD2	5	ORD_ITEM_DATA	Adds order item information to the report.	Transactional	Item

Type	Level	Name	Description	S/T	Data Reported
SCHED_ORDS	1	TRIP_DATA	Reports on Trip, Stop and Location information.	Transactional	Trip
SCHED_ORDS	2	STOPS_DATA	Adds Haulage Activity to the report	Transactional	Stop
SCHED_ORDS	3	ORDERS_DATA	Adds Order, Contact and Customer information to the report.	Transactional	Order
SCHED_ORDS	4	ORDER_LINE_DATA	Adds order line information to the report.	Transactional	Line
SCHED_ORDS	5	ORD_ITEM_DATA	Adds order item information to the report.	Transactional	Item
SRVCS_CAPT	1	SRVCS_CAPT	Reports on Account Service Rates set up in the system.	Standing Data	Finance
STD_ORDS	1	ORDER_AND_TRIP	Reports on Order Header Information	Transactional	Order
STD_ORDS	2	LINE	Adds Lines to the report.	Transactional	Line
STD_ORDS	3	ITEM	Adds Items to the report.	Transactional	Item
STD_ORDS	4	FINANCE	Adds Finance information to the report.	Transactional	Finance
STD_TIMES	1	ORDER_AND_TIMES	Reports on order, vehicle and times.	Transactional	Order
STD_TRIPS	1	TRIP	Reports on Trip, Stop and Location information.	Transactional	Trip
STD_TRIPS	2	STOPS	Adds Haulage Activity to the report	Transactional	Stop
STD_TRIPS	3	ORDERS	Adds Order, Contact and Customer information to the report.	Transactional	Order
STD_TRIPS	4	ORDER_LINE	Adds order line information to the report.	Transactional	Line
STOPS	1	STOP_DATA	Reports on Trip, Stop, Location and Haulage Activity.	Transactional	Trip, Stop
STORAGE	1	SCH_ORD_STORE	Bespoke white glove report.	Transactional	Order
SUCCESS	1	MORNING-SUCCESS	A "Morning Report" showing successful collections/Deliveries.	Transactional	Order
TRACTORS	1	HEADER	Reports on Tractors or Vehicles configured in the system.	Standing Data	Resource
TRAILERS	1	HEADER	Reports on Trailers or Vehicles configured in the system.	Standing Data	Resource
TRIP	1	HEADER	Reports on Trips	Transactional	Trip
TRIP SCANS	1	TRIP SCANS	Reports on Items on Trips	Transactional	Trip Scans
TRIPS	1	TRIP	Reports on Trip, Stop and Location information.	Transactional	Trip
TRIPS	2	STOPS	Adds Stop information to the report	Transactional	Stop
TRIPS	3	ORDERS	Adds Order, Contact and Customer information to the report.	Transactional	Order
TRIPS	4	ORDER_LINE	Adds order line information to the report.	Transactional	Line
TRIP_LOCS	1	TRIP_DATA	Reports on Trip Stop and Locations, for Loading and Unloading activity	Transactional	Trip
TRIP_TYPE	1	TRIP_DATA	Reports on trip data	Transactional	Trip
TRIP_TYPE	1	TRIP_TYPE	Summary of 3PL assigned trips	Transactional	Trip
TRL_TYPES	1	HEADER	Reports on Trailer Types	Standing Data	Resource
TYREKEYCUS	1	PERIOD	Fleet Maintenance report	Transactional	Fleet Management
TYREKEYGRP	1	PERIOD	Fleet Maintenance report	Transactional	Fleet Management
TYRE_INSP	1	ORDER_AND_TRIP	Fleet Maintenance report	Transactional	Trip, Order
TYRE_INSP	2	VEHICLE_TYRES	Fleet Maintenance report	Transactional	Vehicle
TYRE_INSP	3	INSPECTIONS	Fleet Maintenance report	Transactional	Inspections
TYRE_ORDS	1	ORDER_AND_TRIP	Fleet Maintenance report	Transactional	Trip, Order
TYRE_ORDS	2	LINE	Fleet Maintenance report	Transactional	Line
TYRE_ORDS	3	ITEM	Fleet Maintenance report	Transactional	Item

Type	Level	Name	Description	S/T	Data Reported
TYRE_ORDS	4	FINANCE	Fleet Maintenance report	Transactional	Finance
VOLUMETRIC	1	DATA	Product vehicle volumetric data	Standing Data	Product
ZONE	1	ZONE	Reports on Zones set up in the system	Standing Data	Geographical

12 Overview

Note: This guide covers the direct Paragon API interface. There are other more manual interfaces to Aptean Routing & Scheduling - Paragon edition, but these are not covered here.

There are 2 types of direct Paragon APIs:

- Strategic - Fixed Drop Scheduling Engine
- Tactical - creating and optimising routes before or on the day of execution

These can be configured separately, so that either or both can be in use.

12.1 Configuration

12.1.1 System Parameters

System parameters enable the functionality of the Paragon API.

Name	Description	Usage
PAR_TENNANT_KEY1	Tennant KEY 1 for paragon API	SYSTEM
PAR_ENDPOINT_URL	URL for paragon API	SYSTEM
PAR_TENNANT	Tennant for paragon API	SYSTEM
PAR_FREQUENCY	Frequency for PAR Master keys	SYSTEM
PAR_START_DATE	Start Date for Master Keys	SYSTEM
PAR_KEY_FORMAT	PAR Master key format WKXX, DDMM, DAYX	SYSTEM
TK PAR_USE_RPOXY	Paragon Use Proxy	SYSTEM
TK PAR_PROXY	Paragon Proxy Server	SYSTEM
PAR_GROUP_STAGING	Paragon Group Staging Level	SYSTEM
PAR_RUN_NUMBER	Is Paragon Planning based on Run Numbers?	SYSTEM
PAR_KEY_PROJECT	PAR Project name	SYSTEM
PAR_API	Create Control records for Paragon API	SYSTEM
PAR_SEND_ALL_LOCATIONS	Are locations sent out via API ('TACTICAL','STRATEGIC','BOTH')	SYSTEM
PAR_AUDIT	Include auditing of the import process in the STP version of the Paragon API (Y/N)	SYSTEM
HTTPS_WALLET_FILE		
HTTPS_PASSWORD		
AUTO_SCHED_INACTIVE_DEPOTS		
TRM_RETAIN_EMPTY_STOPS		

A full list of configurable parameters is available here:

- System Parameters List

12.1.2 Order and Location Details sent to Paragon

The content of each message sent to Paragon is controlled through internal configuration tables. These are maintained and configured by your Aptean implementation team.

These allow configuration of the various elements that are sent from CTMS to Aptean Routing and Scheduling - Paragon Edition.

Orders

- Any direct field from tables:
  - SCH_ORD - the order.
  - SCH_ORDER_LINE - the deliverable types such as Parcels, Tyres, etc.
  - SCH_ORD_ITEMS - the individual parcels, or quantity of each specific product.

- GEO_LOCATION GEO_TO - details of the final destination.
- GEO_LOCATION GEO_FROM - details of the origin.

- Functions can be called for other information:
  - DP_PAR_API_STP.GET_REF - retrieve any reference against the order.
  - DP_PAR_API_STP.GET_ORDER_TYPE - retrieve the order type.
  - DP_PAR_API_STP.GET_FROM_LOC - summarised details of the origin.
  - DP_PAR_API_STP.GET_TO_LOC - summarised details of the destination.
  - DP_PAR_API_STP.OPENING_TIMES - opening times of the destination.
  - DP_PAR_API_STP.CLOSING_TIMES - closing times of the destination.
  - DP_PAR_API_STP.GET_DROP_NUMBER - the specific drop number.
  - DP_PAR_API_STP.GET_TOTAL_TYRES - the total tyres (specific to tyre delivery - use the below function for more generic systems)
  - DP_PAR_API_STP.GET_QTY_BY_DU - the total quantity of a specific deliverable unit, e.g. pallets, parcels, tyres, etc.

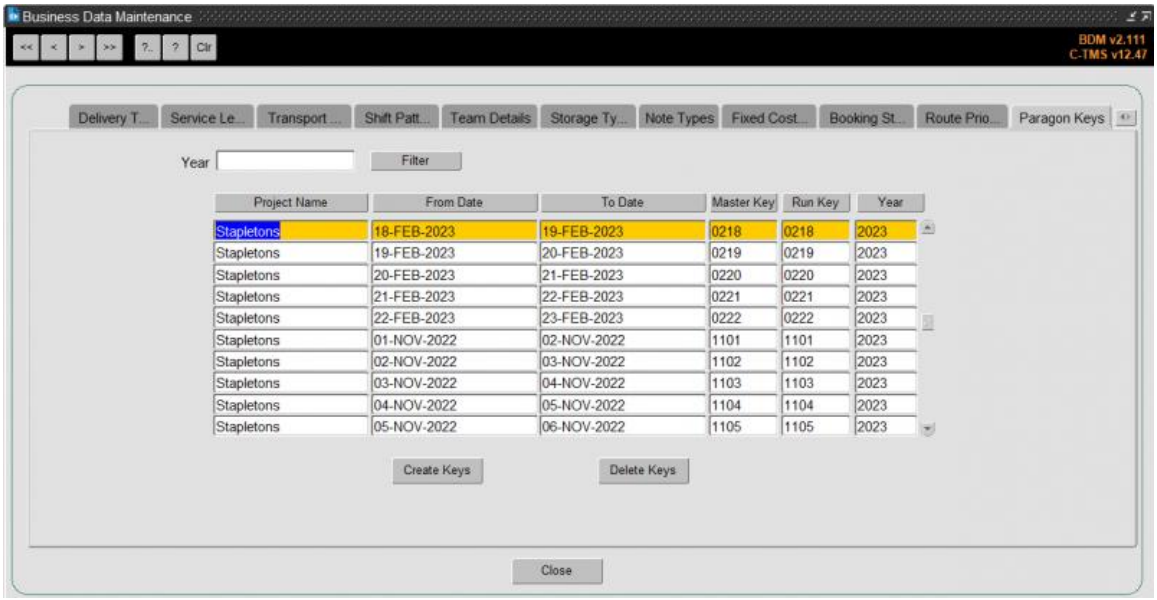
Locations:

- Any direct field from the following tables:
  - GEO_LOCATION - details of the supplied location.

12.1.3 Run Key Configuration

Aptean Routing and Scheduling - Paragon Edition controls all planning through Runs. Runs are normally associated to a schedule within CTMS, but not always. In this case, there is a Run configuration that aligns the dates of jobs within CTMS to the appropriate Paragon run key.

This is achieved through the Business Data Maintenance screen, on the *Paragon Keys* tab.



Note that the enabled in Access Control, accessible tabs, for screen "BDM" tab "PAR_KEYS".

A full list of configurable tabs and functions is available here:

- Access Control - Accessible Functionality

12.1.4 Turning on the interface

The individual processes for Paragon are controlled through EDI Process Configuration in the EDI Maintenance screen.

Inbound

Inbound processes are split into 3

- Inbound Tactical Receive per depot
- Inbound Strategic Receive per depot
- Inbound Processing for all staged receipts above

Regardless of the components of the interface that are in use, the latter process must always be running.

Inbound Strategic Route

These processes get the information from Paragon and stage the information on inbound tables, ready for import

This can be configured for all depots or one per depot, depending on how Paragon is configured. For example, if Paragon is configured with different plans per regional depot, then each import process should be configured separately for each depot here. Therefore this should be named appropriately e.g. the name of the depot.

Process: DP_PAR_API_STP.get_paragon_route

Parameters

- DEPOT_KEY - the RDC Location ID

Report Values

- Package PROCESS DP_PAR_API_STP.get_paragon_route
- Process p_process_name the name of the EDI process that has been configured above.

Inbound Tactical

These processes get the information from Paragon and stage the information on inbound tables, ready for import

This can be configured for all depots or one per depot, depending on how Paragon is configured. For example, if Paragon is configured with different plans per regional depot, then each import process should be configured separately for each depot here. Therefore this should be named appropriately e.g. the name of the depot.

Process: DP_PAR_AP_STPI.get_paragon

Parameters

- DEPOT - the EDI Process Name

Report Values

- Package PROCESS DP_PAR_API_STP.get_paragon
- Process p_process_name Get_Paragon

Inbound Processing

This is the general inbound processing job.

This process processes the information from the inbound tables into the CTMS database.

- Name: paragon_in
- PROCESS: DP_PAR_API_STP.READ_PARAGON_IN

Report Values

- Package PROCESS DP_PAR_API_STP.READ_PARAGON_IN
- Process p_process_name paragon_in

Outbound

- Name: Paragon_Outbound
- Process: DP_PAR_API_STP.process_paragon

Parameters

- AUDIT_WS Y/N
- USE_RUN_DEPOT Y/N

Report Values

- Package PROCESS DP_PAR_API_STP.process_paragon_outbound
- Process p_process_name Paragon_Outbound

12.2 Strategic Interface

This interface allows definition of locations onto fixed routes at specific drop numbers.

Note: This is applicable to Fixed Drop Scheduling engine only.

When imported, this deletes any previous configuration against locations and replaces it with the new network map.

Note: Bank Holiday routes will NOT be deleted - these are expected to be managed manually in CTMS.

The data that is sent is configurable, as seen in the sections above.

12.3 Tactical

When orders are received into CTMS, they may be planned on temporary trips using the scheduling engine - these trips should be configured to be prefixed with "TMP" so that they can be easily distinguished.

Orders and Locations are sent to Paragon for planning.

The data that is sent is configurable, as seen in the sections above.

Paragon users then optimise and plans the orders.

When these Paragon routes are frozen, these are exported back to CTMS automatically. This remove any TMP trips, creates RTE trips and sets them to TENDERED status.

13 Tokairo Document Management System Interface

This document details the integration between CTMS and the Tokairo Document management system.

Once C-TMS has orders, it interfaces a list of the main attributes of those orders over to the document management system. Effectively, that interface is a pre-advice where the customer expects to get delivery and pod paperwork once the deliveries have been made. The interface includes the customer reference. This creates an "index" in the document manager system - so far with no linked documents.

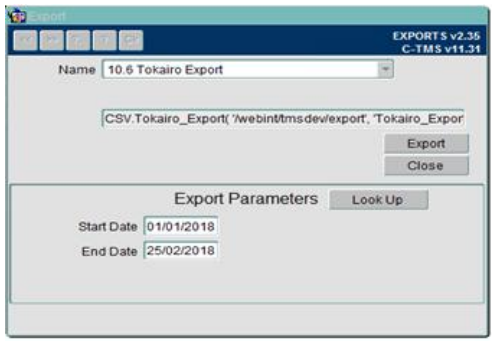
As paperwork is received, it is scanned as an image into the document management system (looks like a photocopier). The document manager software allows image templates to be pre-set and on those image template where the reference is printed. As the documents are scanned and an electronic image created, the logic matches the template and using OCR finds the reference on the paperwork. The image is then linked to / indexed to the data record for the order by matching the reference from the interface to the reference OCR read from the paperwork.

The document management system then sends a simple interface to C-TMS for the order where there is a POD and all that happens is the debrief POD flag is set.

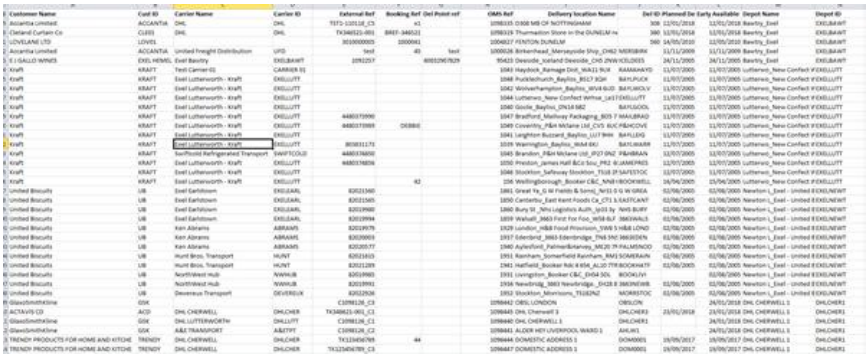
Once there is a POD flag, C-TMS has a show POD button. This is greyed out until the POD flag is set. The button generates a web show document URL into the document manager software and displays all the scanned images for that reference.

13.1 Process

13.1.1 Outbound CSV Extract



The Export to the document management system can be created as a process to run at a specific time each day. The export will generate a CSV file including the following information, customer, carrier, depot and orders references for all orders updated in the last 24 hours.



The export can be automated using the EDI Maintenance screen and the following parameters:

Parameter Name	Parameter Description	Value
Process Name	Flow Identifier	RETRIEVAL_DAILY
Filename Format	Naming convention of the files being sent in	RET_Export
Customer	N/A	
Cost Centre Code	CTMS Cost Centre associated with the flow	N/A

Parameter Name	Parameter Description	Value
Location (Optional)	Location ID for the flow, this is not mandatory	N/A
Direction	Type of flow	Outbound
Flow Type	Flow format	EXPORT

The file is generated and stored in a folder on the C-TMS server. The location of the folder is stored in the parameter TOK_OUTBOUND_PATH

Parameter Name	Parameter Description	Value
Delivery Folder	Folder into which the files will be delivered	Test :- /webint/xxxtst/interface/TOK/OUT
		Live :- /webint/xxxprd/interface/TOK/OUT
Archive Folder	Folder into which successful files are placed	Test :-/webint/xxxtst/interface/TOK/OUT/archive
		Live :- /webint/xxxprd/interface/TOK/OUT/archive
Failures Folder	Folder into which failed files are placed	Test :- n/a
		Live :- n/a
Acknowledgment Folder	Folder into which acknowledgment files are placed	Test :- n/a
		Live :- n/a

The export is expected to run once a day and can be run as an export process in the EDI Maintenance screen. Running the extract pre-advises the document system of the orders , using an order reference as an index. The file may be sent across more regularly than once a day depending upon the offset between order creation and order delivery.

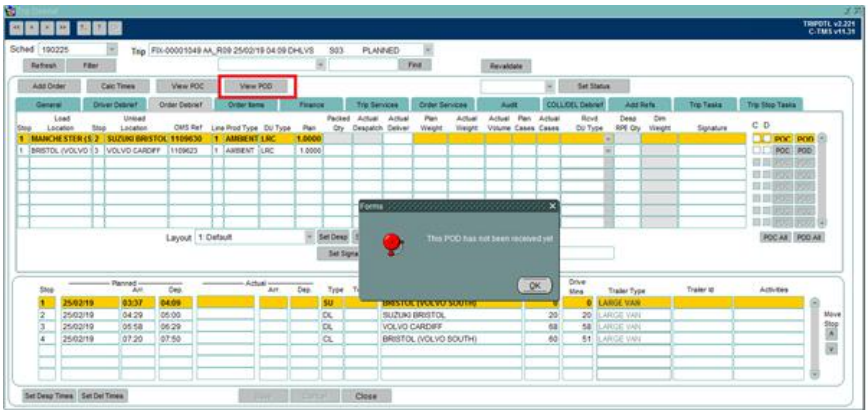
Parameter Name	Parameter Description	Value
Frequency Type	Once daily or regular intervals	Specific Time
All Days	Days on which the export runs Box	checked
Process Time	Time of day report will run	15:00
Flow Start Date/Time	Date and time that flow should be started	Test :- ASAP
		Live :- ASAP

Title	Name	Value
Export Name	EXPORT	CSV.Tokairo_Daily

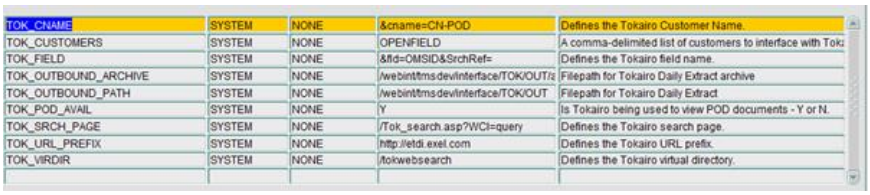
13.2 Document View

Within the Debrief screen the View POD button may be enabled to allow users to view the POD file, this will link directly to the scan of the POD document for the order selected, held within the document system.

In the debrief screen, the View POD button is used to view the POD report in the document system. Selecting the button will build a url for a WEB SHOW Document command, based on the oms reference of the order. The system will only attempt to build the URL if the POD flag against the order has been set to Y. If the POD has not been set, the following message will be displayed.



If the POD flag has been set to Y, the system will use the following system parameters to build the WEB SHOW document command



TOK_CNAME	SYSTEM	NONE	&cname=CN-POD	Defines the Tokairo Customer Name.
TOK_CUSTOMERS	SYSTEM	NONE	OPENFIELD	A comma-delimited list of customers to interface with Tok
TOK_FIELD	SYSTEM	NONE	&fld=OMSID&SrchRef=	Defines the Tokairo field name.
TOK_OUTBOUND_ARCHIVE	SYSTEM	NONE	/webint/tms.dev/interface/TOK/OUT/z	Filepath for Tokairo Daily Extract archive
TOK_OUTBOUND_PATH	SYSTEM	NONE	/webint/tms.dev/interface/TOK/OUT	Filepath for Tokairo Daily Extract
TOK_POD_AVAIL	SYSTEM	NONE	Y	Is Tokairo being used to view POD documents - Y or N.
TOK_SRCH_PAGE	SYSTEM	NONE	/Tok_search.asp?WCI=query	Defines the Tokairo search page.
TOK_URL_PREFIX	SYSTEM	NONE	http://etdi.exel.com	Defines the Tokairo URL prefix.
TOK_VIRDIR	SYSTEM	NONE	/tokwebsearch	Defines the Tokairo virtual directory.

13.3 Further Configuration

The following System Parameters affect this functionality:

Parameter	Description	Level
TOK_CNAME	Defines the Tokairo Customer Name.	CUSTOMER
TOK_CUSTOMERS	A comma-delimited list of customers to interface with Tokairo.	SYSTEM
TOK_FIELD	Defines the Tokairo field name.	CUSTOMER
TOK_OUTBOUND_ARCHIVE	Filepath for Tokairo Daily Extract archive	SYSTEM
TOK_OUTBOUND_PATH	Filepath for Tokairo Daily Extract	SYSTEM
TOK_POD_AVAIL	Is Tokairo being used to view POD documents - Y or N.	SYSTEM
TOK_SRCH_PAGE	Defines the Tokairo search page.	SYSTEM
TOK_URL_PREFIX	Defines the Tokairo URL prefix.	SYSTEM
TOK_VIRDIR	Defines the Tokairo virtual directory.	CUSTOMER

14 Introduction

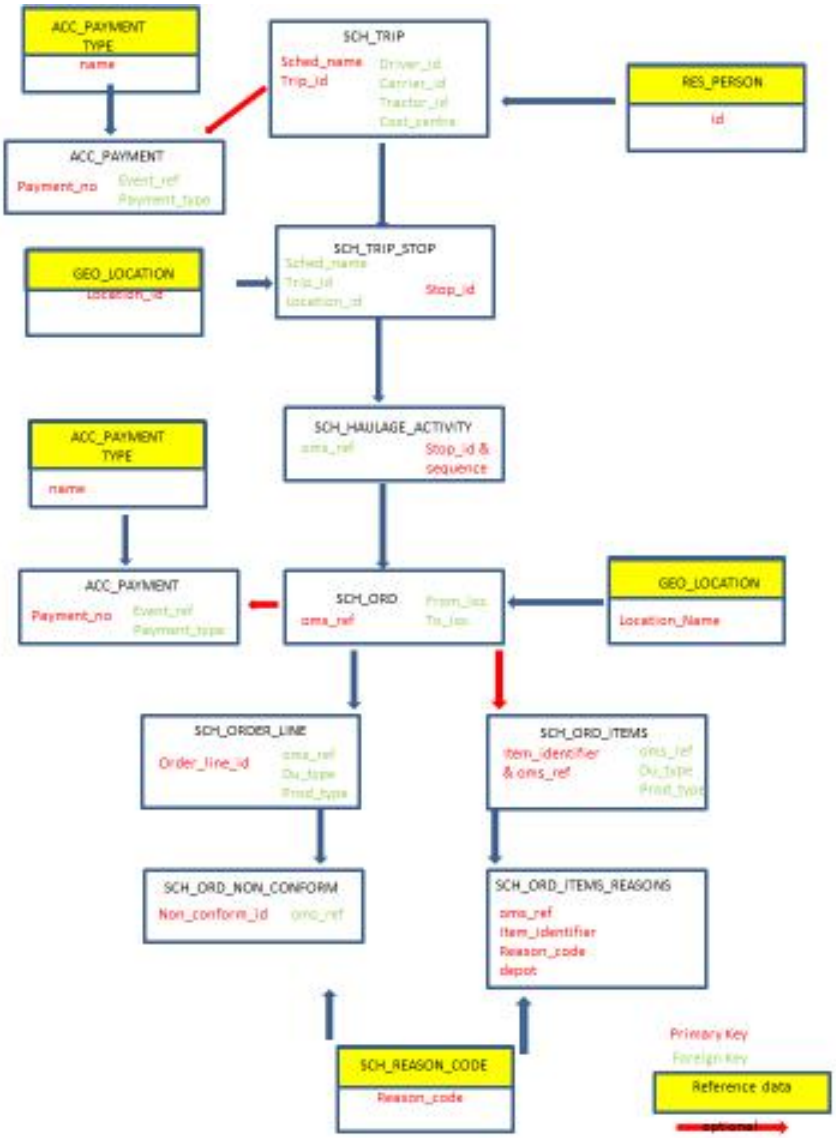
Data exports are available to populate BI or MIS systems. These exports are based upon all columns in the following tables within the CTMS database.

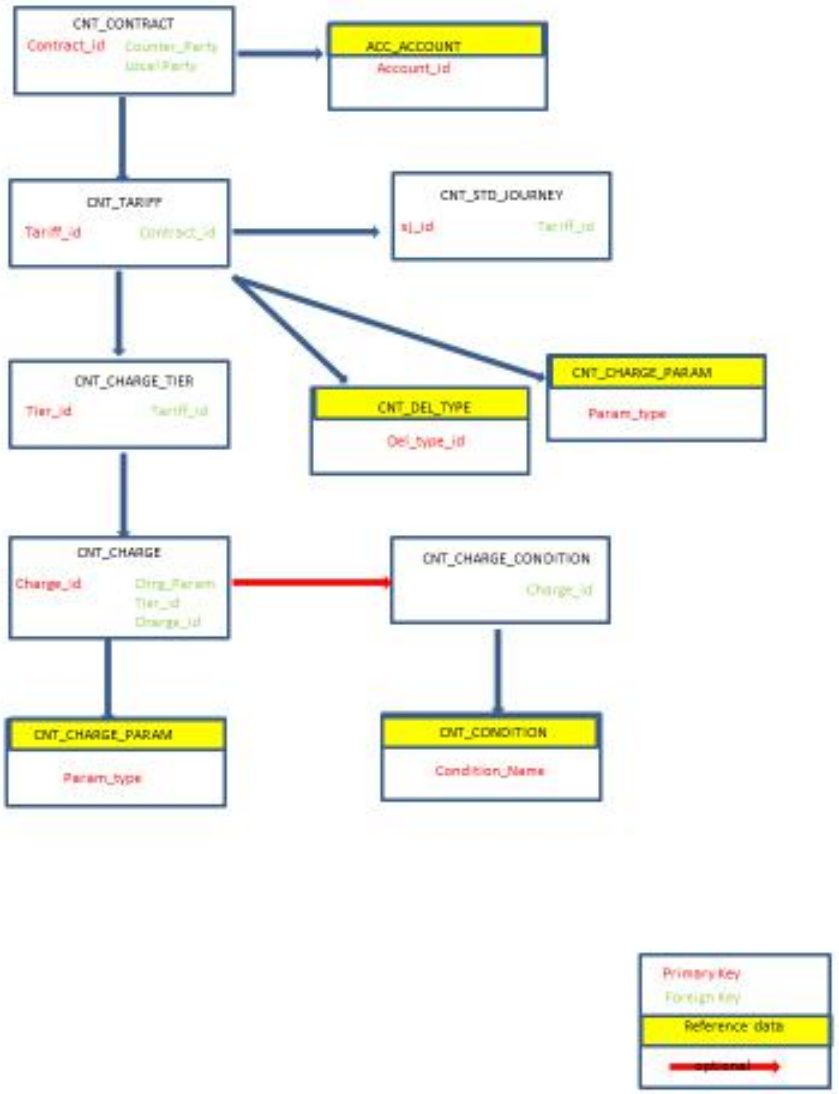
```
CNT_CHARGE
CNT_CONTRACT
CNT_CHARGE_TIER
CNT_TARIFF
GEO_LOCATION
GEO_LOCATION_USAGE
IMP_DECODE_ENTRY
INT_BOOKING_DETAIL
ORG_CUSTOMER
RES_CARRIER
RES_CARRIER_TYPE
RES_PERSON
RES_TRAILER_TYPE
SAP_PRODUCT_ITEM
SCH_BOOKING
SCH_HAULAGE_ACTIVITY
SCH_ORD
SCH_ORD_NON_CONFORM
SCH_ORDER_LINE
SCH_ORDER_ITEMS
SCH_ORDER_ITEMS_REASONS
SCH_PRODUCT_SUMMARY
SCH_REASON_CODE
SCH_SCHEDULE
SCH_TRIP
SCH_TRIP_STOP
```

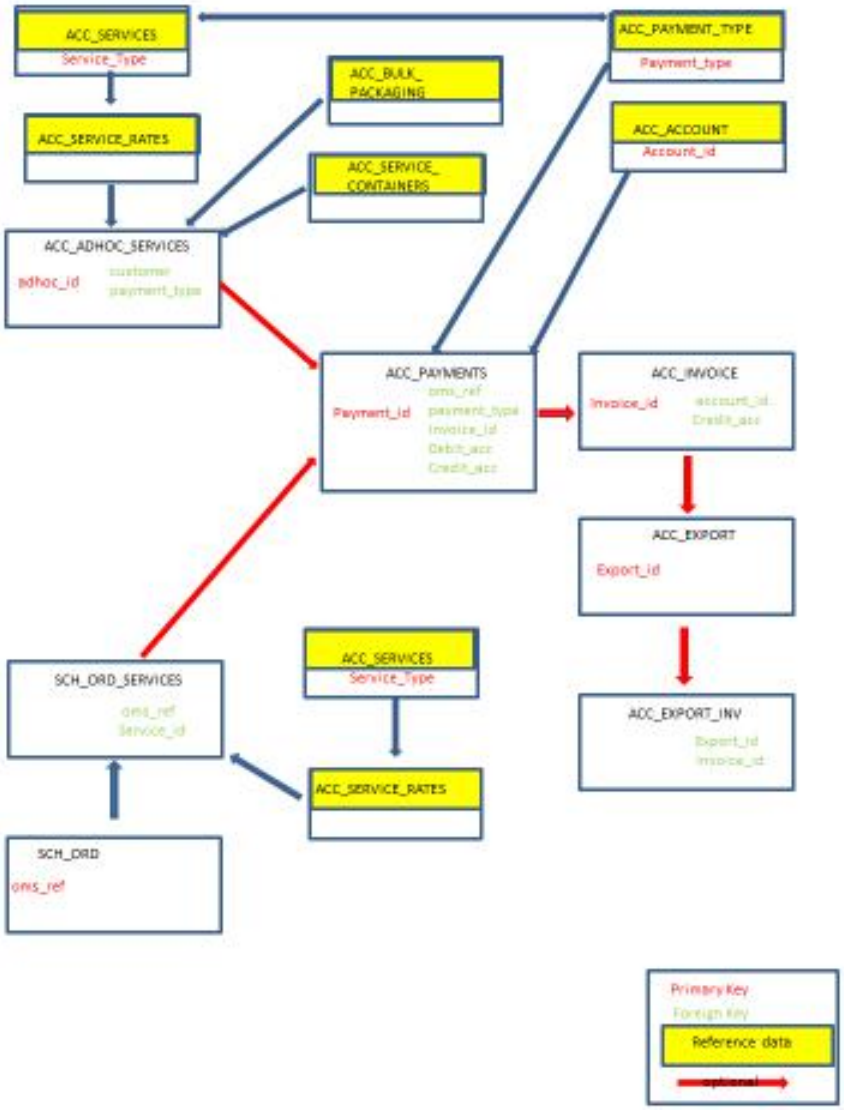
Note: Other tables are available and may be exported - these are the most common. The tables and fields exported can be configured (added to or removed, based on customer processing requirements).

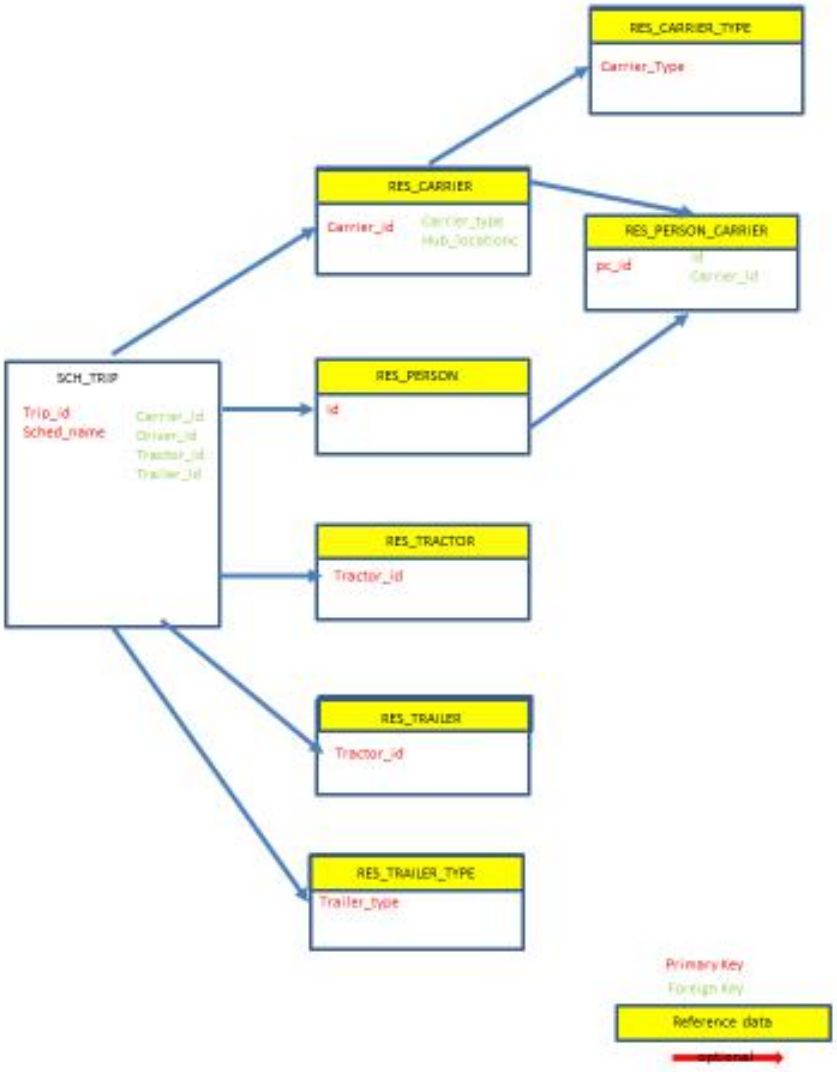
15 Schematic

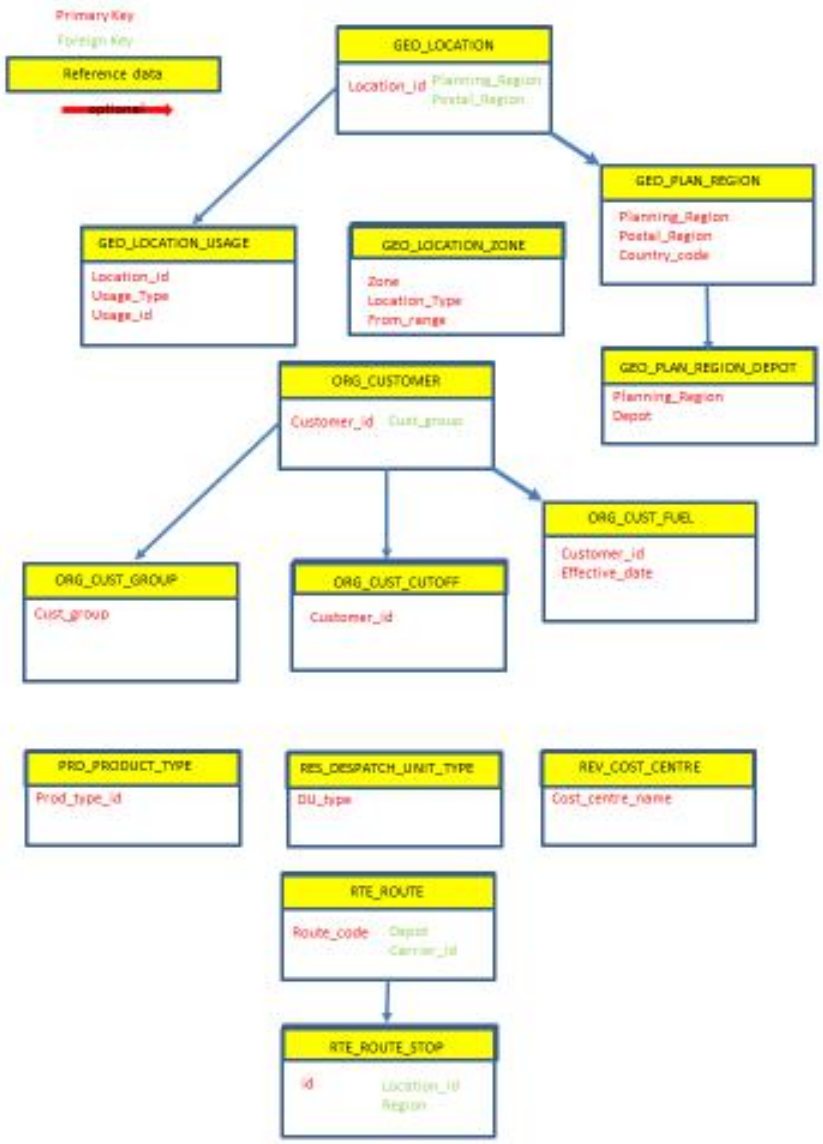
The following schemas indicate the links between the tables (Primary & Foreign keys)

- 







- 

16 Data Fields

The tables are listed. It is expected that each column will be delimited with a '?' symbol and that extract can be scheduled and run on with records created or updated in the last 4 days.

Note:

- Up to 50 columns may be configured per extract.
- The list below shows common fields for the tables, and these may be selected from for the 50 columns.
- If more than 50 columns are required, then an additional extract for that table may be defined.

TABLE_NAME	COLUMN_NAME	DATA_TYPE_SIZE	COLUMN_POSN
CNT_CHARGE	CHRG_PARAM	VARCHAR2(12)	1
	VALUE	NUMBER(23,5)	2
	CREATED_BY	VARCHAR2(40)	3
	CREATED_DATE	DATE	4
	UPDATED_BY	VARCHAR2(40)	5
	UPDATED_DATE	DATE	6
	CHARGE_ID	NUMBER(20,0)	7
	CONDITION_NAME	VARCHAR2(12)	8
	CONDITION_VALUE	VARCHAR2(12)	9
	TIER_ID	NUMBER(12,0)	10
	CHARGEABLE_QUANTITY	NUMBER(12,0)	11
	CHARGE_TYPE	VARCHAR2(12)	12
	EFFECTIVE_FROM	DATE	13
	EXPIRY_DATE	DATE	14

TABLE_NAME	COLUMN_NAME	DATA_TYPE_SIZE	COLUMN_POSN
CNT_CHARGE_TIER	UPPER_LIMIT	NUMBER(12,2)	1
	TARIFF_ID	NUMBER(20,0)	2
	TIER_NAME	VARCHAR2(20)	3
	MIN_CHARGE	NUMBER(20,2)	4
	MAX_CHARGE	NUMBER(20,2)	5
	CREATED_BY	VARCHAR2(40)	6
	CREATED_DATE	DATE	7
	UPDATED_BY	VARCHAR2(40)	8
	UPDATED_DATE	DATE	9
	TIER_ID	NUMBER(12,0)	10
	ADD_UPPER_LIMIT	NUMBER(12,2)	11
	ADD_TIER_NAME	VARCHAR2(20)	12

TABLE_NAME	COLUMN_NAME	DATA_TYPE_SIZE	COLUMN_POSN
CNT_CONTRACT	CONTRACT_ID	NUMBER(20,0)	1
	CONTRACT_TYPE	VARCHAR2(12)	2
	LOCAL_PARTY	VARCHAR2(12)	3
	COUNTER_PARTY	VARCHAR2(12)	4
	EFFECTIVE_FROM	DATE	5
	CREATED_BY	VARCHAR2(40)	6
	CREATED_DATE	DATE	7
	UPDATED_BY	VARCHAR2(40)	8
	UPDATED_DATE	DATE	9
	DEFAULT_CCY	VARCHAR2(3)	10
	EXPIRY_DATE	DATE	11
	ORDER_MOVEMENT_RATE	VARCHAR2(1)	12

TABLE_NAME	COLUMN_NAME	DATA_TYPE_SIZE	COLUMN_POSN
CNT_TARIFF	CONTRACT_ID	NUMBER(20,0)	1
	DEL_TYPE	VARCHAR2(35)	2
	TARIFF_ID	NUMBER(20,0)	3
	TARIFF_NAME	VARCHAR2(50)	4
	TIER_UNITS	VARCHAR2(12)	5
	EXPIRY_DATE	DATE	6
	CREATED_BY	VARCHAR2(40)	7
	CREATED_DATE	DATE	8
	UPDATED_BY	VARCHAR2(40)	9
	UPDATED_DATE	DATE	10
	CCY_CODE	VARCHAR2(3)	11
	CHARGE_TYPE	VARCHAR2(12)	12

	EFFECTIVE_FROM	DATE	13
	SEQUENCE	NUMBER(5,0)	14
	ADD_TIER_UNITS	VARCHAR2(12)	15

TABLE_NAME	COLUMN_NAME	DATA_TYPE_SIZE	COLUMN_POSN
GEO_LOCATION	LOCATION_ID	VARCHAR2(12)	1
	DEPOT	VARCHAR2(12)	2
	LOCATION_NAME	VARCHAR2(35)	3
	EXT_REF	VARCHAR2(50)	4
	ROUTE_CODE	VARCHAR2(12)	5
	ADDRESS_LINE1	VARCHAR2(50)	6
	ADDRESS_LINE2	VARCHAR2(50)	7
	ADDRESS_LINE3	VARCHAR2(50)	8
	TOWN	VARCHAR2(50)	9
	COUNTY	VARCHAR2(50)	10
	COUNTRY	VARCHAR2(50)	11
	COUNTRY_CODE	VARCHAR2(3)	12
	POSTCODE	VARCHAR2(9)	13
	POSTAL_REGION	VARCHAR2(15)	14
	PHONE	VARCHAR2(50)	15
	FAX	VARCHAR2(50)	16
	LATITUDE	NUMBER(9,5)	17
	LONGITUDE	NUMBER(9,5)	18
	LOADING_RATE	VARCHAR2(12)	19
	UNLOADING_RATE	VARCHAR2(12)	20
	SCHEDULE_OFFSET	NUMBER(2,0)	21
	RESPONSIBLE_COST_CENTRE	VARCHAR2(50)	22
	PARENT_LOC_ID	VARCHAR2(12)	23
	VENDOR_CODE	VARCHAR2(12)	24
	OPEN_MON	VARCHAR2(5)	25
	CLOSE_MON	VARCHAR2(5)	26
	OPEN_FRI	VARCHAR2(5)	27
	CLOSE_FRI	VARCHAR2(5)	28
	CREATE_EMPTIES	VARCHAR2(1)	29
	COMMENTS	VARCHAR2(255)	30
	INACTIVE	VARCHAR2(1)	31
	TRAILER_TYPE	VARCHAR2(35)	32
	ALT_COLL_LOC	VARCHAR2(12)	33
	ALT_DEL_LOC	VARCHAR2(12)	34
	DEFAULT_XDOCK	VARCHAR2(12)	35
	DFLT_SC_HANGING	VARCHAR2(12)	36
	DFLT_SC_BOXED	VARCHAR2(12)	37
	PROFILE_ID	VARCHAR2(12)	38
	CREATED_BY	VARCHAR2(40)	39
	CREATED_DATE	DATE	40
	UPDATED_BY	VARCHAR2(40)	41
	UPDATED_DATE	DATE	42
	CONTROL_TOWER	VARCHAR2(1)	43
	PLANNING_REGION	VARCHAR2(5)	44
	COST_CENTRE_NAME	VARCHAR2(12)	45

TABLE_NAME	COLUMN_NAME	DATA_TYPE_SIZE	COLUMN_POSN
GEO_LOCATION_USAGE	LOCATION_ID	VARCHAR2(12)	1
	USAGE_TYPE	VARCHAR2(12)	2
	USAGE_ID	VARCHAR2(12)	3
	CREATED_BY	VARCHAR2(40)	4
	CREATED_DATE	DATE	5
	UPDATED_BY	VARCHAR2(40)	6
	UPDATED_DATE	DATE	7

TABLE_NAME	COLUMN_NAME	DATA_TYPE_SIZE	COLUMN_POSN
IMP_DECODE_ENTRY	DECODE_NAME	VARCHAR2(35)	1
	SOURCE_VALUE	VARCHAR2(256)	2
	TARGET_VALUE	VARCHAR2(256)	3
	CUSTOMER_ID	VARCHAR2(12)	4
	DECODE_TYPE	VARCHAR2(12)	5
	CREATED_BY	VARCHAR2(40)	6
	CREATED_DATE	DATE	7
	UPDATED_BY	VARCHAR2(40)	8
	UPDATED_DATE	DATE	9

TABLE_NAME	COLUMN_NAME	DATA_TYPE_SIZE	COLUMN_POSN
INT_BOOKING_DETAIL	INT_RECORD_ID	VARCHAR2(100)	1
	REC_NUM	NUMBER(22,0)	2

FROM_LOC	VARCHAR2(12)	3
TO_LOC	VARCHAR2(12)	4
QUANTITY	NUMBER(20,5)	5
DEL_DATE	VARCHAR2(12)	6
PRODUCT_TYPE	VARCHAR2(12)	7
DU_TYPE	VARCHAR2(12)	8
BOOKING_REF	VARCHAR2(20)	9
TRANSHIP_IND	VARCHAR2(1)	10
RECORD_STATUS	VARCHAR2(10)	11
VALIDATION_ERROR	VARCHAR2(2000)	12
CREATED_DATE	DATE	13
CREATED_BY	VARCHAR2(40)	14
UPDATED_DATE	DATE	15
UPDATED_BY	VARCHAR2(40)	16
IDENTIFIER	VARCHAR2(10)	17
ACTION	VARCHAR2(1)	18
PRODUCT_ITEM	VARCHAR2(100)	19
UOM	VARCHAR2(3)	20
DEL_PRIORITY	VARCHAR2(2)	21
HANDLING_CODE1	VARCHAR2(2)	22
HANDLING_CODE2	VARCHAR2(2)	23
HANDLING_CODE3	VARCHAR2(2)	24
CARRIER_CODE	VARCHAR2(3)	25
INSP_REQ	VARCHAR2(2)	26
TEST_REQ	VARCHAR2(2)	27
WAREHOUSE_CODE	VARCHAR2(3)	28
STORAGE_CODE	VARCHAR2(3)	29
SOURCE_SYSTEM	VARCHAR2(25)	30
DU_QTY	NUMBER(24,4)	31
WEIGHT	NUMBER(12,2)	32
VOLUME	NUMBER(20,5)	33
BKG_PLANT	VARCHAR2(4)	34
BKG_STORAGE_LOC	VARCHAR2(4)	35
BKG_SHELF_LIFE	DATE	36
BKG_REQUESTOR	VARCHAR2(20)	37
BKG_TELEPHONE	VARCHAR2(30)	38
BKG_ACCOUNT_NO	VARCHAR2(20)	39
BKG_BUILDING	VARCHAR2(10)	40
BKG_ROOM	VARCHAR2(8)	41
BKG_COMMENTS	VARCHAR2(200)	42
ASN_HANDLING_UNIT	VARCHAR2(20)	43
OLD_MAT_NO	VARCHAR2(18)	44
CHBNO	VARCHAR2(30)	45
LAB_TEST	VARCHAR2(80)	46
SHELF_LIFE_IND	VARCHAR2(1)	47
MIN_REM_SHELF	VARCHAR2(4)	48
TEMP_COND	VARCHAR2(20)	49
REQ_NAME	VARCHAR2(40)	50
REQ_PHONE	VARCHAR2(30)	51
REQ_ACC_NO	VARCHAR2(20)	52
REQ_BUILD	VARCHAR2(20)	53
REQ_ROOM	VARCHAR2(10)	54
COMMENTS	VARCHAR2(80)	55
ADD_DATA_1	VARCHAR2(40)	56
ADD_DATA_2	VARCHAR2(40)	57
ADD_DATA_3	VARCHAR2(40)	58
BKG_ADD_DATA_1	VARCHAR2(40)	59
BKG_ADD_DATA_2	VARCHAR2(40)	60
BKG_ADD_DATA_3	VARCHAR2(40)	61
PRODUCT_DESC	VARCHAR2(100)	62

TABLE_NAME	COLUMN_NAME	DATA_TYPE_SIZE	COLUMN_POSN
ORG_CUSTOMER	CUSTOMER_ID	VARCHAR2(12)	1
	CUSTOMER_NAME	VARCHAR2(50)	2
	CONTACT_NAME	VARCHAR2(50)	3
	LOCATION_ID	VARCHAR2(12)	4
	MTM_CUST_CODE	VARCHAR2(2)	5
	SELF_BILL	VARCHAR2(1)	6
	CUST_GROUP	VARCHAR2(12)	7
	COST_CENTRE_NAME	VARCHAR2(12)	8
	VAT_COUNTRY	VARCHAR2(3)	9
	VAT_REG_NO	VARCHAR2(50)	10
	CREATED_BY	VARCHAR2(40)	11
	CREATED_DATE	DATE	12
	UPDATED_BY	VARCHAR2(40)	13
	UPDATED_DATE	DATE	14
	COUNTRY	VARCHAR2(3)	15

	USE_LATE_ORDERS	VARCHAR2(1)	16
	USE_MANUAL_ORDERS	VARCHAR2(1)	17
	USE_URGENT_ORDERS	VARCHAR2(1)	18
	USE_TRANSACTION_CHARGING	VARCHAR2(1)	19
	TYPE	VARCHAR2(12)	20
	LATE_ORDER_DAYS_THRESHOLD	NUMBER(5)	21
	INT_ORD_TO_LOGNET	VARCHAR2(1)	22
	UNISON_IF_VALUE	VARCHAR2(3)	23
	TOK_POD_AVAIL	VARCHAR2(1)	24
	CONSOLIDATE_ORDERS	VARCHAR2(1)	25
	CONSOL_ALLOC_METHOD	VARCHAR2(12)	26
	ORDER_REVENUE_CHARGING_TYPE_ID	NUMBER	27

TABLE_NAME	COLUMN_NAME	DATA_TYPE_SIZE	COLUMN_POSN
RES_CARRIER	CARRIER_ID	VARCHAR2(12)	1
	CARRIER_NAME	VARCHAR2(50)	2
	GROUP_NAME	VARCHAR2(35)	3
	COST_CENTRE_NAME	VARCHAR2(12)	4
	CARRIER_TYPE_ID	VARCHAR2(35)	5
	CURRENT_HAULAGE_UNITS	NUMBER(5,0)	6
	FIXED_COST_WEEKDAY	NUMBER(20,2)	7
	FIXED_COST_SAT	NUMBER(20,2)	8
	FIXED_COST_SUN	NUMBER(20,2)	9
	HUB_LOCATION	VARCHAR2(12)	10
	ENFORCE_START_AT_HUB	VARCHAR2(1)	11
	ENFORCE_END_AT_HUB	VARCHAR2(1)	12
	BARCODE_TYPE	VARCHAR2(12)	13
	TMS_REF	VARCHAR2(12)	14
	HQ_LOCATION	VARCHAR2(12)	15
	EXPORTFILE_TYPE	VARCHAR2(12)	16
	VAT_NUMBER	VARCHAR2(35)	17
	VAT_COUNTRY	VARCHAR2(3)	18
	STD_SHIFT_HOURS	NUMBER(4,2)	19
	STD_FACTOR	NUMBER(4,2)	20
	ALTERNATE_CARRIER	VARCHAR2(1)	21
	OVERTIME_FACTOR	NUMBER(4,2)	22
	MAX_SHIFT_HOURS	NUMBER(4,2)	23
	TRIP_THRESHOLD_HOURS	NUMBER(4,2)	24
	MAX_DRIVING_HOURS	NUMBER(4,2)	25
	ADDRESS_LINE1	VARCHAR2(35)	26
	ADDRESS_LINE2	VARCHAR2(35)	27
	CREATED_BY	VARCHAR2(40)	28
	ADDRESS_LINE3	VARCHAR2(35)	29
	CREATED_DATE	DATE	30
	TOWN	VARCHAR2(35)	31
	UPDATED_BY	VARCHAR2(40)	32
	UPDATED_DATE	DATE	33
	COUNTY	VARCHAR2(35)	34
	COUNTRY	VARCHAR2(35)	35
	COUNTRY_CODE	VARCHAR2(3)	36
	POSTCODE	VARCHAR2(9)	37
	REGION	VARCHAR2(2)	38
	PHONE	VARCHAR2(35)	39
	FAX	VARCHAR2(35)	40
	DRIVER_BREAK_THRESHOLD_HOURS	NUMBER(4,2)	41
	DRIVER_BREAK_MINS	NUMBER(3,0)	42
	WORK_BREAK_THRESHOLD_HOURS	NUMBER(4,2)	43
	WORK_BREAK_MINS	NUMBER(3,0)	44
	DISPLAY_TYPE	VARCHAR2(8)	45
	PERMIT_DEBRIEF	VARCHAR2(1)	46
	CONTACT	VARCHAR2(100)	47
	WORK_STOPOVER_THRESHOLD_HOURS	NUMBER(4,2)	48
	STOPOVER_MINS	NUMBER(3,0)	49
	DRIVE_STOPOVER_THRESHOLD_HOURS	NUMBER(4,2)	50

TABLE_NAME	COLUMN_NAME	DATA_TYPE_SIZE	COLUMN_POSN
RES_CARRIER_TYPE	CARRIER_TYPE_ID	VARCHAR2(35)	1
	TRIP_COST_METHOD	VARCHAR2(12)	2
	ORD_COST_METHOD	VARCHAR2(12)	3
	CREATED_BY	VARCHAR2(40)	4
	CREATED_DATE	DATE	5
	UPDATED_BY	VARCHAR2(40)	6
	UPDATED_DATE	DATE	7

TABLE_NAME	COLUMN_NAME	DATA_TYPE_SIZE	COLUMN_POSN

TABLE_NAME	COLUMN_NAME	DATA_TYPE_SIZE	COLUMN_POSN
RES_PERSON	ID	NUMBER(22,0)	1
	SURNAME	VARCHAR2(50)	2
	FORENAME	VARCHAR2(50)	3
	JOB_TITLE	VARCHAR2(50)	4
	LOCATION_ID	VARCHAR2(12)	5
	CREATED_BY	VARCHAR2(40)	6
	CREATED_DATE	DATE	7
	UPDATED_BY	VARCHAR2(40)	8
	UPDATED_DATE	DATE	9

TABLE_NAME	COLUMN_NAME	DATA_TYPE_SIZE	COLUMN_POSN
RES_TRAILER_TYPE	TRAILER_TYPE	VARCHAR2(12)	1
	TEMPERATURE_TYPE	VARCHAR2(12)	2
	DESCRIPTION	VARCHAR2(50)	3
	MAX_KG	NUMBER(20,2)	4
	VOLUME	NUMBER(20,5)	5
	MAX_RPE	NUMBER(8,2)	6
	REFRIGERATED	VARCHAR2(1)	7
	TRAILER_LENGTH	NUMBER(3,0)	8
	COST_OF_USE	NUMBER(3,0)	9
	INACTIVE	VARCHAR2(1)	10
	RIGID	VARCHAR2(1)	11
	CREATED_BY	VARCHAR2(40)	12
	CREATED_DATE	DATE	13
	UPDATED_BY	VARCHAR2(40)	14
	UPDATED_DATE	DATE	15
	DRIVE_TIME_MODIFIER	NUMBER(3,2)	16

TABLE_NAME	COLUMN_NAME	DATA_TYPE_SIZE	COLUMN_POSN
SAP_PRODUCT_ITEM	PRODUCT_ITEM_ID	VARCHAR2(18)	1
	PRODUCT_ITEM_DESC	VARCHAR2(100)	2
	DEF_DU_TYPE	VARCHAR2(12)	3
	DEF_PRODUCT_TYPE	VARCHAR2(12)	4
	CREATED_BY	VARCHAR2(40)	5
	CREATED_DATE	DATE	6
	UPDATED_BY	VARCHAR2(40)	7
	UPDATED_DATE	DATE	8

TABLE_NAME	COLUMN_NAME	DATA_TYPE_SIZE	COLUMN_POSN
SCH_BOOKING	SOURCE	VARCHAR2(12)	1
	DESTINATION	VARCHAR2(12)	2
	DELIVERY_DATE	DATE	3
	PROD_TYPE_ID	VARCHAR2(12)	4
	SCHEDULE_DATE	DATE	5
	TOTAL_WEIGHT	NUMBER(12,2)	6
	TOTAL_VOLUME	NUMBER(20,5)	7
	EFFECTIVE_WEIGHT	NUMBER(12,2)	8
	BOOKING_REF	VARCHAR2(20)	9
	COMMENTS	VARCHAR2(100)	10
	SPECIAL_FLAG	VARCHAR2(35)	11
	PLANNED	VARCHAR2(1)	12
	ROUTE	VARCHAR2(12)	13
	BROUGHT_IN	VARCHAR2(1)	14
	CREATED_BY	VARCHAR2(40)	15
	CREATED_DATE	DATE	16
	UPDATED_BY	VARCHAR2(40)	17
	UPDATED_DATE	DATE	18
	SCHED_NAME	VARCHAR2(12)	19
	TRANSHIP_IND	VARCHAR2(1)	20
	ORIG_PROD_TYPE	VARCHAR2(12)	21

TABLE_NAME	COLUMN_NAME	DATA_TYPE_SIZE	COLUMN_POSN
SCH_HAULAGE_ACTIVITY	STOP_ID	NUMBER(22,0)	1
	SEQUENCE	NUMBER(8,0)	2
	OMS_REF	VARCHAR2(12)	3
	ACTIVITY_NAME	VARCHAR2(35)	4
	COMMENTS	VARCHAR2(255)	5
	CREATED_BY	VARCHAR2(40)	6
	CREATED_DATE	DATE	7
	UPDATED_BY	VARCHAR2(40)	8
	UPDATED_DATE	DATE	9

TABLE_NAME	COLUMN_NAME	DATA_TYPE_SIZE	COLUMN_POSN

SCH_ORD	OMS_REF	VARCHAR2(12)	1
	ORDER_ID	VARCHAR2(12)	2
	STATUS	VARCHAR2(12)	3
	SOURCE_SYSTEM	VARCHAR2(12)	4
	SCHED_NAME	VARCHAR2(12)	5
	COST_CENTRE_NAME	VARCHAR2(12)	6
	CUSTOMER	VARCHAR2(12)	7
	DELIVERY_TYPE_ID	VARCHAR2(35)	8
	TEMP_COMBO_ID	VARCHAR2(12)	9
	PARENT_ORDER	VARCHAR2(12)	10
	TEMPLATE_ID	VARCHAR2(35)	11
	FROM_LOC	VARCHAR2(12)	12
	TO_LOC	VARCHAR2(12)	13
	ORIG_FROM_LOC	VARCHAR2(12)	14
	FINAL_TO_LOC	VARCHAR2(12)	15
	CONTRACT_FROM_LOC	VARCHAR2(12)	16
	CONTRACT_TO_LOC	VARCHAR2(12)	17
	TARGET_TIME	VARCHAR2(5)	18
	EARLY_AVAIL	DATE	19
	LATE_AVAIL	DATE	20
	EARLY_DEL	DATE	21
	LATE_DEL	DATE	22
	TARGET	VARCHAR2(12)	23
	DISTANCE	NUMBER(12,2)	24
	TOTAL_RPE_QTY	NUMBER(8,2)	25
	TOTAL_WEIGHT	NUMBER(20,5)	26
	TOTAL_VOLUME	NUMBER(20,5)	27
	TOTAL_PALLETS	NUMBER(24,4)	28
	TOTAL_PIECES	NUMBER(24,4)	29
	TOTAL_EFFECTIVE_WEIGHT	NUMBER(20,2)	30
	TOTAL_ACTUAL_RPE_QTY	NUMBER(8,2)	31
	CONTRACTUAL_WEIGHT	NUMBER(20,2)	32
	CONTRACTUAL_PALLETS	NUMBER(24,4)	33
	CONTRACTUAL_RPE_QTY	NUMBER(8,2)	34
	ACTUAL_WEIGHT	NUMBER(20,2)	35
	ACTUAL_VOLUME	NUMBER(20,5)	36
	ACTUAL_PALLETS	NUMBER(24,4)	37
	ACTUAL_PIECES	NUMBER(24,4)	38
	ACTUAL_EFFECTIVE_WEIGHT	NUMBER(20,2)	39
	DELIVERED_TIME	DATE	40
	ORD_STD_COST	NUMBER(20,2)	41
	DO_NOT_CALC_STD_COST	VARCHAR2(1)	42
	REVENUE_STATUS	VARCHAR2(1)	43
	ORD_REVENUE	NUMBER(20,2)	44
	REVENUE_VAT	NUMBER(20,2)	45
	COST_STATUS	VARCHAR2(1)	46
	ORD_COST	NUMBER(20,2)	47
	COST_VAT	NUMBER(20,2)	48
	COST_ALLOC	NUMBER(20,2)	49
	ORD_REVENUE_VS	NUMBER(20,2)	50
	PROFIT	NUMBER(20,2)	51
	MARGIN	NUMBER(8,2)	52
	ORD_TIER_NAME	VARCHAR2(50)	53
	SJC_DATA	VARCHAR2(2000)	54
	EXTERNAL_REF	VARCHAR2(20)	55
	COMMENTS	VARCHAR2(2000)	56
	DELIVERY_INSTRUCTIONS	VARCHAR2(60)	57
	POD_NAME	VARCHAR2(50)	58
	LAST_ERROR	VARCHAR2(256)	59
	SEND_TO_MTM	VARCHAR2(1)	60
	GROUP_NAME	VARCHAR2(12)	61
	TRANSCODE	VARCHAR2(1)	62
	MTM_SPLIT_ID	VARCHAR2(20)	63
	MTM_FLF	VARCHAR2(1)	64
	CONF_NO	VARCHAR2(12)	65
	SHIPPING_REF	VARCHAR2(12)	66
	CREATED_USER	VARCHAR2(50)	67
	CREATED_DATE	DATE	68
	CHANGED_USER	VARCHAR2(50)	69
	CHANGED_DATE	DATE	70
	INFO	VARCHAR2(255)	71
	CREATE_EMPTIES	VARCHAR2(1)	72
	NUM_ADV_NOTES	NUMBER(4,0)	73
	AETC_REF	VARCHAR2(20)	74
	DEL_POINT_REF	VARCHAR2(20)	75
	DROP_COUNT	NUMBER(8,0)	76
	COLLECTED_BY	VARCHAR2(1)	77

	DELIVERED_BY	VARCHAR2(1)	78
	POC	VARCHAR2(1)	79
	POD	VARCHAR2(1)	80
	ORDER_COMMENTS	VARCHAR2(2000)	81
	LANE_COMMENTS	VARCHAR2(2000)	82
	SCHED_DATE	DATE	83
	BOOKING_REF	VARCHAR2(20)	84
	SAVING	NUMBER(20,2)	85
	LATE_ORDER	VARCHAR2(1)	86
	MANUAL_ORDER	VARCHAR2(1)	87
	URGENT_ORDER	VARCHAR2(1)	88
	SERVICE_TYPE	VARCHAR2(20)	89
	SOURCE_REF	VARCHAR2(50)	90
	CURRENT_DEPOT	VARCHAR2(12)	91
	CCY_CODE	VARCHAR2(3)	92
	CONTAINER_NO	VARCHAR2(50)	93
	BILL_OF_LADING	VARCHAR2(50)	94
	TOTAL_CASES	NUMBER(8,0)	95
	NUM_ORDER_LINES	NUMBER(22,0)	96
	SPECIAL_INSTRUCTIONS	VARCHAR2(4000)	97
	BOOKED_IN	VARCHAR2(1)	98
	STD_COST_DATA	VARCHAR2(2000)	99
	ORD_REV_DATA	VARCHAR2(2000)	100
	INTERNAL_CHARGE_DATA	VARCHAR2(2000)	101
	ACTUAL_DELIVERED_PALLETS	NUMBER(24,4)	102
	ACTUAL_DELIVERED_PIECES	NUMBER(24,4)	103
	TOTAL_ACTUAL_DELIVERED_RPE_QTY	NUMBER(8,2)	104
	ACTUAL_DESPATCHED_PALLETS	NUMBER(24,4)	105
	ACTUAL_DESPATCHED_PIECES	NUMBER(24,4)	106
	TOTAL_ACTUAL_DESPTCHD_RPE_QTY	NUMBER(8,2)	107
	BOOKING_SEQ	NUMBER(22,0)	108
	TRANSHIP_IND	VARCHAR2(1)	109
	UOM	VARCHAR2(3)	110
	ORIGINAL_QTY	NUMBER(22,0)	111
	EXC_FIXED_ROUTES	VARCHAR2(1)	112
	DEL_PRIORITY	VARCHAR2(2)	113
	HANDLING_CODE1	VARCHAR2(2)	114
	HANDLING_CODE2	VARCHAR2(2)	115
	HANDLING_CODE3	VARCHAR2(2)	116
	CARRIER_CODE	VARCHAR2(3)	117
	INSP_REQ	VARCHAR2(2)	118
	TEST_REQ	VARCHAR2(2)	119
	SAP_PRODUCT_ITEM	VARCHAR2(18)	120
	WAREHOUSE_CODE	VARCHAR2(3)	121
	STORAGE_CODE	VARCHAR2(3)	122
	EFX_REF	VARCHAR2(50)	123

TABLE_NAME	COLUMN_NAME	DATA_TYPE_SIZE	COLUMN_POSN
SCH_ORD_NON_CONFORM	OMS_REF	VARCHAR2(12)	1
	ACTIVITY	VARCHAR2(20)	2
	REASON_CODE	VARCHAR2(12)	3
	COMMENTS	VARCHAR2(256)	4
	NON_CONFORM_ID	NUMBER	5
	TRIP_ID	VARCHAR2(12)	6
	SCHED_NAME	VARCHAR2(12)	7
	CREATED_DATE	DATE	8
	CREATED_BY	VARCHAR2(50)	9
	UPDATED_DATE	DATE	10
	UPDATED_BY	VARCHAR2(50)	11

TABLE_NAME	COLUMN_NAME	DATA_TYPE_SIZE	COLUMN_POSN
SCH_ORDER_LINE	ORDER_LINE_ID	NUMBER(20,0)	1
	OMS_REF	VARCHAR2(12)	2
	LINE_NO	NUMBER(8,0)	3
	PRODUCT_TYPE	VARCHAR2(12)	4
	DU_TYPE	VARCHAR2(12)	5
	QUANTITY	NUMBER(24,4)	6
	WEIGHT	NUMBER(20,2)	7
	CUBE	NUMBER(20,5)	8
	ACTUAL_QUANTITY	NUMBER(24,4)	9
	ACTUAL_WEIGHT	NUMBER(20,2)	10
	ACTUAL_CUBE	NUMBER(12,5)	11
	ACTUAL_RPE_QTY	NUMBER(8,2)	12
	EFFECTIVE_WEIGHT	NUMBER(20,2)	13
	ACTUAL_EFFECTIVE_WEIGHT	NUMBER(20,2)	14
	SCH_PROD_SUM_ID	NUMBER(20,0)	15

	ORIGINAL_DEL_DATE	DATE	16
	SPECIAL	VARCHAR2(12)	17
	RPE_QTY	NUMBER(8,2)	18
	ACTUAL_CASES	NUMBER(6,0)	19
	UPDATED_BY	VARCHAR2(40)	20
	UPDATED_DATE	DATE	21
	CREATED_BY	VARCHAR2(40)	22
	CREATED_DATE	DATE	23
	CASES	NUMBER(8,0)	24
	ACTUAL_DELIVERED_QUANTITY	NUMBER(24,4)	25
	ACTUAL_DELIVERED_RPE_QTY	NUMBER(24,4)	26
	ACTUAL_DESPATCHED_QUANTITY	NUMBER(24,4)	27
	ACTUAL_DESPATCHED_RPE_QTY	NUMBER(24,4)	28
	MEDIA_RETURNS_DU_TYPE	VARCHAR2(12)	29
	MEDIA_RETURNS_QUANTITY	NUMBER(24,4)	30

TABLE_NAME	COLUMN_NAME	DATA_TYPE_SIZE	COLUMN_POSN
SCH_ORD_ITEMS	OMS_REF	VARCHAR2(48)	1
	CUSTOMER	VARCHAR2(48)	2
	EXTERNAL_REF	VARCHAR2(80)	3
	PROD_TYPE_ID	VARCHAR2(48)	4
	ITEM_IDENTIFIER	VARCHAR2(80)	5
	ITEM_AKA_CODE	VARCHAR2(120)	6
	ITEM_DESCRIPTION	VARCHAR2(488)	7
	ITEM_FACTOR	VARCHAR2(48)	8
	LIFTS	NUMBER(8,2)	9
	STACK	NUMBER(3,0)	10
	QTY_ORDERED	NUMBER(8,0)	11
	QTY_TO_DELIVER	NUMBER(8,0)	12
	QTY_DELIVERED	NUMBER(8,0)	13
	WEIGHT	NUMBER(20,2)	14
	VOLUME	NUMBER(20,4)	15
	CREATED_DATE	DATE	16
	CREATED_BY	VARCHAR2(160)	17
	UPDATED_DATE	DATE	18
	UPDATED_BY	VARCHAR2(160)	19
	DU_TYPE	VARCHAR2(48)	20
	CURRENT_LOCATION	VARCHAR2(48)	21
	SAP_LINE_NO	NUMBER(12,0)	22
	DAMAGED_FLAG	VARCHAR2(4)	23
	ALTERNATIVE_ITEM_ID	VARCHAR2(80)	24
	PALLET_ID	VARCHAR2(80)	25
	ORDER_ITEM_ID	NUMBER(20,0)	26
	HEIGHT	NUMBER(5,2)	27
	WIDTH	NUMBER(5,2)	28
	LENGTH	NUMBER(5,2)	29
	CLASS	VARCHAR2(400)	30
	DG	VARCHAR2(4)	31
	ACTUAL_LENGTH	NUMBER(5,2)	32
	ACTUAL_WIDTH	NUMBER(5,2)	33
	ACTUAL_HEIGHT	NUMBER(5,2)	34
	ACTUAL_WEIGHT	NUMBER(20,2)	35
	ACTUAL_DIMENSIONAL_WEIGHT	NUMBER(20,2)	36
	CONTRACTUAL_WEIGHT	NUMBER(20,2)	37
	DIMENSIONAL_WEIGHT	NUMBER(20,2)	38
	UNITS	NUMBER(20,0)	39
	COMMODITY	VARCHAR2(200)	40
	GEL_PACK_QTY	NUMBER(8,0)	41
	DRY_ICE_QTY	NUMBER(10,2)	42
	EQ	VARCHAR2(4)	43
	PARENT_ITEM_ID	VARCHAR2(80)	44
	ITEM_LONG_DESCRIPTION	VARCHAR2(4000)	45

TABLE_NAME	COLUMN_NAME	DATA_TYPE_SIZE	COLUMN_POSN
SCH_ORD_ITEMS_REASONS	OMS_REF	VARCHAR2(48)	1
	CUSTOMER	VARCHAR2(48)	2
	EXTERNAL_REF	VARCHAR2(80)	3
	PROD_TYPE_ID	VARCHAR2(48)	4
	ITEM_IDENTIFIER	VARCHAR2(80)	5
	REASON_CODE	VARCHAR2(48)	6
	QTY	NUMBER(8,0)	7
	REASON_COMMENTS	VARCHAR2(800)	8
	CREATED_DATE	DATE	9
	CREATED_BY	VARCHAR2(160)	10
	UPDATED_DATE	DATE	11
	UPDATED_BY	VARCHAR2(160)	12

	DEPOT	VARCHAR2(48)	13
	TRIP_ID	VARCHAR2(48)	14
	SCAN_TYPE	VARCHAR2(80)	15

TABLE_NAME	COLUMN_NAME	DATA_TYPE_SIZE	COLUMN_POSN
SCH_PRODUCT_SUMMARY	SOURCE	VARCHAR2(12)	1
	DESTINATION	VARCHAR2(12)	2
	DELIVERY_DATE	DATE	3
	PROD_TYPE_ID	VARCHAR2(12)	4
	DU_TYPE	VARCHAR2(12)	5
	SUM_CASES	NUMBER(20,0)	6
	LEFTOFF_QTY	NUMBER(24,4)	7
	LEFTOFF_PLANNED	NUMBER(24,4)	8
	SUM_QTY	NUMBER(24,4)	9
	ADJ_SUM_QTY	NUMBER(24,4)	10
	PREV_ADV_QTY	NUMBER(24,4)	11
	PLANNED_QTY	NUMBER(24,4)	12
	VARIANCE_QTY	NUMBER(24,4)	13
	ADVANCE_QTY	NUMBER(24,4)	14
	ADV_PLANNED	NUMBER(24,4)	15
	ACTUAL_QTY	NUMBER(24,4)	16
	SCH_PROD_SUM_ID	NUMBER(20,0)	17
	LOG		18
	ORIG_SUM_QTY	NUMBER(24,4)	19
	GROUP_NAME	VARCHAR2(12)	20
	CREATED_BY	VARCHAR2(40)	21
	CREATED_DATE	DATE	22
	UPDATED_BY	VARCHAR2(40)	23
	UPDATED_DATE	DATE	24
	SCHED_NAME	VARCHAR2(12)	25
	TRANSHIP_IND	VARCHAR2(1)	26
	BOOKING_REF	VARCHAR2(20)	27
	UOM	VARCHAR2(3)	28
	ORIGINAL_QTY	NUMBER(22,0)	29
	STATUS	VARCHAR2(20)	30
	WEIGHT	NUMBER(12,2)	31
	VOLUME	NUMBER(20,5)	32
	SOURCE_SYSTEM	VARCHAR2(12)	33
	DEL_PRIORITY	VARCHAR2(2)	34
	HANDLING_CODE1	VARCHAR2(2)	35
	HANDLING_CODE2	VARCHAR2(2)	36
	HANDLING_CODE3	VARCHAR2(2)	37
	CARRIER_CODE	VARCHAR2(3)	38
	INSP_REQ	VARCHAR2(2)	39
	TEST_REQ	VARCHAR2(2)	40
	SAP_PRODUCT_ITEM	VARCHAR2(18)	41
	WAREHOUSE_CODE	VARCHAR2(3)	42
	STORAGE_CODE	VARCHAR2(3)	43
	ORIG_PROD_TYPE	VARCHAR2(12)	44

TABLE_NAME	COLUMN_NAME	DATA_TYPE_SIZE	COLUMN_POSN
SCH_REASON_CODE	REASON_CODE	VARCHAR2(12)	1
	USAGE	VARCHAR2(12)	2
	DESCRIPTION	VARCHAR2(35)	3
	CREATED_BY	VARCHAR2(40)	4
	CREATED_DATE	DATE	5
	UPDATED_BY	VARCHAR2(40)	6
	UPDATED_DATE	DATE	7

TABLE_NAME	COLUMN_NAME	DATA_TYPE_SIZE	COLUMN_POSN
SCH_SCHEDULE	SCHED_NAME	VARCHAR2(12)	1
	COST_CENTRE	VARCHAR2(12)	2
	SCHED_STATUS	VARCHAR2(12)	3
	UPDATES_PENDING	VARCHAR2(1)	4
	SCHED_START	DATE	5
	SCHED_END	DATE	6
	LOCKED_BY	VARCHAR2(35)	7
	CREATED_BY	VARCHAR2(40)	8
	CREATED_DATE	DATE	9
	UPDATED_BY	VARCHAR2(40)	10
	UPDATED_DATE	DATE	11

TABLE_NAME	COLUMN_NAME	DATA_TYPE_SIZE	COLUMN_POSN
SCH_TRIP	SCHED_NAME	VARCHAR2(12)	1

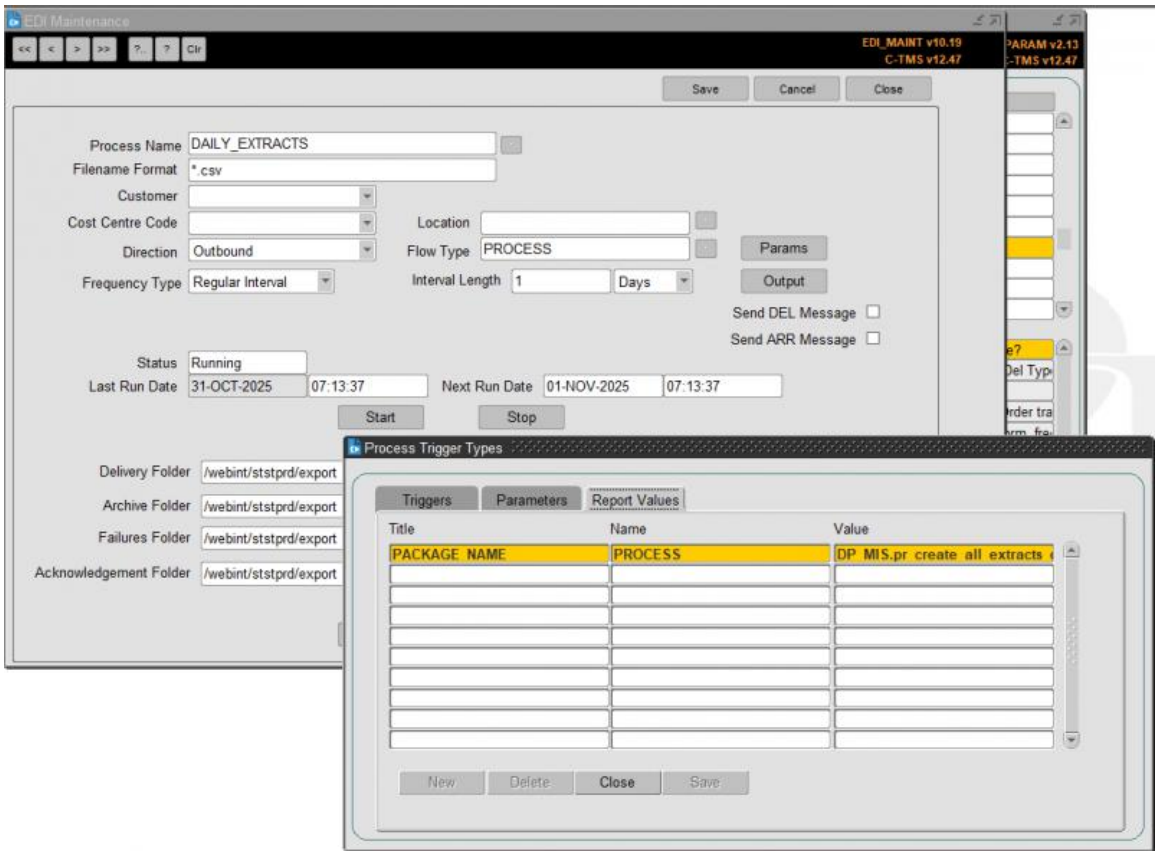
TRIP_ID	VARCHAR2(12)	2
TRIP_STATUS	VARCHAR2(12)	3
EXT_REF	VARCHAR2(50)	4
EXT_SHIP_DATE	DATE	5
COST_CENTRE	VARCHAR2(12)	6
CARRIER_ID	VARCHAR2(12)	7
OWNING_DEPOT	VARCHAR2(12)	8
HU_ID	NUMBER(10,0)	9
DRIVER_ID	NUMBER(10,0)	10
TRIP_COST	NUMBER(20,2)	11
ALLOCABLE_COST	NUMBER(20,2)	12
TRIP_COST_CCY	VARCHAR2(3)	13
TRIP_COST_UPDATED	DATE	14
COST_VAT	NUMBER(20,2)	15
TRIP_REVENUE	NUMBER(20,2)	16
TRIP_REVENUE_CCY	VARCHAR2(3)	17
TRIP_REVENUE_UPDATED	DATE	18
REVENUE_VAT	NUMBER(20,2)	19
MTM_COST	NUMBER(20,2)	20
TRIP_STD_COST	NUMBER(20,2)	21
PAYMENT_REF	VARCHAR2(50)	22
DISTANCE	NUMBER(12,2)	23
SOURCE_SYSTEM	VARCHAR2(12)	24
LAST_ERROR	VARCHAR2(256)	25
TRAILER_TYPE	VARCHAR2(12)	26
PROFIT	NUMBER(20,2)	27
MARGIN	NUMBER(8,2)	28
TRAILER_ID	VARCHAR2(50)	29
TRACTOR_ID	VARCHAR2(12)	30
BILL_OF_LADING	VARCHAR2(12)	31
START_TIME	DATE	32
END_TIME	DATE	33
ELAPSED_TIME	NUMBER(5,0)	34
DRIVE_TIME	NUMBER(5,0)	35
MANUAL_MOD	VARCHAR2(1)	36
LAST_UPDATED	DATE	37
SEAL_NO	NUMBER(35,0)	38
ODO_START	NUMBER(7,0)	39
ODO_END	NUMBER(7,0)	40
FUEL_DRAWN	NUMBER(7,1)	41
MAX_SHIFT_HOURS_BREACH	VARCHAR2(1)	42
MAX_DRIVING_HOURS_BREACH	VARCHAR2(1)	43
HOURS_BREACH_USERNAME	VARCHAR2(40)	44
HOURS_BREACH_DATETIME	DATE	45
BREAKS_BREACH	VARCHAR2(1)	46
UTILISATION	NUMBER(8,2)	47
MTM_PS_CREATED	VARCHAR2(1)	48
MTM_FEASIBLE	VARCHAR2(1)	49
ROUTE_CODE	VARCHAR2(12)	50
FIX_TRAILER	VARCHAR2(1)	51
DRIVER_ID2	NUMBER(10,0)	52
DRIVER_ID3	NUMBER(10,0)	53
SVC_TYPE	VARCHAR2(12)	54
LAST_INVITATION_DATE	DATE	55
LAST_ACCEPTED_DATE	DATE	56
LAST_REJECTED_DATE	DATE	57
TRIP_AMENDED_FLAG	VARCHAR2(1)	58
CTM_CHASER_COUNT	NUMBER(5,0)	59
ROUTE_CREATION_DAYNO	NUMBER(22,0)	60
SEND_AMENDED_EMAIL	VARCHAR2(1)	61
SJC_DATA	VARCHAR2(2000)	62
TOTAL_TRIP_WORK	NUMBER(5,0)	63
TOTAL_TRIP_BREAK	NUMBER(5,0)	64
SHIFT_START	DATE	65
SHIFT_END	DATE	66
CREATED_DATE	DATE	67
CREATED_USER	VARCHAR2(50)	68
CARRIER_REF	VARCHAR2(25)	69
CCY_CODE	VARCHAR2(3)	70
CONTAINER_NO	VARCHAR2(50)	71
OWNING_DEPOT_MAN_MOD	VARCHAR2(1)	72
SYS_DELETED	VARCHAR2(1)	73
PLANNED_ARRIVE_FIRST_STOP	DATE	74
PLANNED_ARRIVE_LAST_STOP	DATE	75
LAST_ENROUTE_DATE	DATE	76
LAST_COMPLETED_DATE	DATE	77
OUTBOUND_VEHICLE_FILL	NUMBER(5,2)	78
INBOUND_VEHICLE_FILL	NUMBER(5,2)	79

	TRIP_HAS_COLLECTION	VARCHAR2(1)	80
	TRIP_EXPIRY_TIME	DATE	81
	EFX_REF	VARCHAR2(50)	82
	EFX_SEND_FLAG	VARCHAR2(1)	83
	TRAILER_ID2	VARCHAR2(50)	84
	FULL_LOAD	VARCHAR2(10)	85

TABLE_NAME	COLUMN_NAME	DATA_TYPE_SIZE	COLUMN_POSN
SCH_TRIP_STOP	STOP_ID	NUMBER(22,0)	1
	SCHED_NAME	VARCHAR2(12)	2
	TRIP_ID	VARCHAR2(12)	3
	STOP_NO	NUMBER(13,5)	4
	STOP_TYPE	VARCHAR2(2)	5
	LOCATION_ID	VARCHAR2(12)	6
	ARRIVE	DATE	7
	LOAD_START	DATE	8
	LOAD_COMPLETE	DATE	9
	DEPART	DATE	10
	LAYOVER	VARCHAR2(6)	11
	DISTANCE_FROM_PREV_STOP	NUMBER(10,0)	12
	DRIVE_TIME_FROM_PREV_STOP	NUMBER(10,0)	13
	ACTUAL_ARRIVE	DATE	14
	ACTUAL_DEPART	DATE	15
	WEIGHT_ON_DEPART	NUMBER(20,2)	16
	VOLUME_ON_DEPART	NUMBER(20,5)	17
	RPE_ON_DEPART	NUMBER(22,2)	18
	TRAILER_ID	VARCHAR2(12)	19
	FIXED	VARCHAR2(1)	20
	TRAILER_TYPE	VARCHAR2(12)	21
	SEAL_NO	VARCHAR2(50)	22
	DT_CALC_METHOD	VARCHAR2(12)	23
	RPE_ON_DEPART_ROUND	NUMBER(20,0)	24
	MANUAL_APPLY_STOPOVER	VARCHAR2(1)	25
	MANUAL_OVERRIDE_STOPOVER	VARCHAR2(1)	26
	STOPOVER	VARCHAR2(1)	27
	WAIT_TIME_MINS	NUMBER(10,0)	28
	LOAD_TIME_MINS	NUMBER(10,0)	29
	LAYOVER_MINS	NUMBER(10,0)	30
	BOOKING_TIME	VARCHAR2(25)	31
	PICK_BY	DATE	32
	DU_QTY_ON_DEPART	NUMBER(24,4)	33
	TRAILER_ID2	VARCHAR2(12)	34
	CREATED_BY	VARCHAR2(40)	35
	CREATED_DATE	DATE	36
	UPDATED_BY	VARCHAR2(40)	37
	UPDATED_DATE	DATE	38

17 Extraction

Data is scheduled to run on an Oracle DMBS_JOB that will produce delimited flat files that will be pushed to an agreed server.



The set up must contain

- A unique Process Name
- Direction Outbound
- File Type PROCESS
- The interval should be once daily at a defined time after midnight.
- The folders should point to a known folder within the CTMS system data structure.
- The Params should be
    - Title PACKAGE_NAME, name PROCESS, Value DP_MIS.pr_create_all_extracts

The following shows the data extracted, grouped by type.

Business Area Trip

```
SCH_HAULAGE_ACTIVITY
SCH_TRIP
SCH_TRIP_STOP
```

Business Area Resources

```
IMP_DECODE_ENTRY
ORG_CUSTOMER
RES_CARRIER
RES_CARRIER_TYPE
RES_PERSON
RES_TRAILER_TYPE
```

Business Area Orders

```
SCH_ORD
```

```
SCH_ORD_NON_CONFORM
SCH_ORDER_LINE
SCH_ORDER_ITEMS
SCH_ORDER_ITEMS_REASONS
```

Business Area Locations

```
GEO_LOCATION
GEO_LOCATION_USAGE
```

Business Area Contracts

```
CNT_CHARGE
CNT_CHARGE_TIER
CNT_CONTRACT
CNT_TARIFF
```

Business Area Bookings

```
INT_BOOKING_DETAIL
SAP_PRODUCT_ITEM
SCH_BOOKING
SCH_PRODUCT_SUMMARY
SCH_REASON_CODE
```

Business Area Schedule

```
SCH_SCHEDULE
```

The export will include all agreed columns on the agreed tables.

All tables will contain columns to identify record created date and records updated date.

Empty csv files will be produced if there is no new data to send to the MIS solution.

There is no method to identify when records are deleted. Therefore records removed from CTMS will not be extracted.