



Aptean

# BI Data Extract Guide

Calidus TMS - 11.47

15/11/23 - 2.0  
Reference: INTERFACE

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# 1 C-ePOD Interface

This page shows all of the different modes that can be set for the interface to Calidus EPOD, the system parameters that affect this interface and an indication of the basic mapped data and how it is affected by the configuration.

## 1.1 Modes

| Mode    | Description  |
|---------|--|
| PARCEL  | Simple non-configurable interface for parcel delivery.                   |
| RETAIL  | Products within containers. Non-configurable.                            |
| BULK    | Bulk product delivery at a location.                                     |
| MODE1   | Configurable container delivery.   |
| MODE2   | Configurable container or product delivery.                              |
| DELTYPE | EPOD mode is configured against the delivery type (defaulting to MODE2). |



## 1.2 System Parameters



**Note:** The majority of system parameters that affect Job or lower levels apply only to MODE1 and MODE2 - other modes are bespoke and unaffected.

| Parameter                    | Description  | Level       |
|------------------------------|--|-------------|
| EPOD_COLLECT_STOCK           | To exclude sending a loading stop to EPOD which does not have an order for van stock or to fit new tyres(Y/N)  | SYSTEM      |
| EPOD_COMPLETED_UPDATE        | Are epod updates sent for COMPLETED trips?   | SYSTEM      |
| EPOD_COMPLETE_ON_LOAD_UPDATE | Complete Trip when RTD job sent back from epod for load updates  | SYSTEM      |
| EPOD_COMPLETE_ON_RTD         | Complete Trip when RTD job sent back from epod   | COST_CENTRE |
| EPOD_CONCATENATE_JOB_INSTR   | Concatenate the special instructions and the order comments for the collection/delivery location as the job instructions (Y/N).                        | COST_CENTRE |
| EPOD_CONSOLIDATION_LEVEL     | Level of job consolidation for epod  | COST_CENTRE |
| EPOD_CONTACT_DELIMITER       | EPOD contact delimiter   | COST_CENTRE |
| EPOD_CONTAINER_CODE1         | What populates this field in EPOD DIMS for dimesions(default) or PARTS for the part numbers if present   | COST_CENTRE |
| EPOD_CONTAINER_CODE2         | What populates this field in EPOD DIMS for dimesions or PARTS for the part numbers if present(default)   | COST_CENTRE |
| EPOD_CONTAINER_CODE3         | What populates this field in EPOD DIMS for dimesions or PARTS (for the part numbers if present) default NULL   | COST_CENTRE |
| EPOD_CONTAINER_DESCRIPTION   | What populates this field in EPOD COMMODITY for the item commodity(default) DESCRIPTION for item desc or PROD_DESC for the prod AKA code and item desc | COST_CENTRE |
| EPOD_CUSTOMER_INVOICE        | Include an EPOD_CUSTOMER_INVOICE section within the EPOD_CUSTOMERS section for the service jobs (Y/N)  | SYSTEM      |
| EPOD_DEPOT_JOBS              | EPOD Debrief jobs which load at or deliver to RDC locations  | SYSTEM      |
| EPOD_ENROUTE_COLLECTIONS     | Set Trip to En-Route via ePOD Interface  | SYSTEM      |
| EPOD_IGNORE_COL_SIG_DEPOT    | Controls is signatures are ignored for cols at depots  | SYSTEM      |
| EPOD_ITEM_LEVEL              | IC - Send Items as containers to EPOD or LP (the default if not set) - Send Lines as Products to EPOD  | SYSTEM      |
| EPOD_JOB_GROUP_FORMAT        | Indicates whether the value passed in the EPL Job Group to EPOD is the Cost Centre (CC), Carried ID (CI), Customer Group (CG) or Customer (CU).        | SYSTEM      |
| EPOD_JOB_RETAIN_TIMES        | Retain the actual times for the trip stop for the job (Y/N).   | COST_CENTRE |
| EPOD_OWNER_CONFIG            | Epod Owner Configuration   | COST_CENTRE |
| EPOD_PREVENT_ASSET_TRACK     | Prevents asset tracking through EPOD   | COST_CENTRE |
| EPOD_SEND_CLOSING_TIME       | Send Location closing time to epod   | SYSTEM      |
| EPOD_SEND_CONTACT_INFO       | Send Contact infromation to epod   | COST_CENTRE |
| EPOD_SEND_DRIVER             | Is the driver username included? (Y/N)   | SYSTEM      |
| EPOD_SEND_EPL_LAT_LONG       | Send EPL_LAT and EPL_LONG for job addresses (Y/N)  | COST_CENTRE |
| EPOD_SEND_EQUIPMENT          | Controls if equipment requirements are sent to EPOD  | SYSTEM      |



| Parameter                       | Description  | Level       |
|---------------------------------|--|-------------|
| EPOD_SEND_ITEM_AKA_CODE         | Send EPL_PRODUCT_CODE with the item AKA code (Y/N)   | COST_CENTRE |
| EPOD_SEND_LOADING_TYPE          | Send Loading Type to EPOD  | COST_CENTRE |
| EPOD_SET_ACTUAL_SIGNATORY_BLANK | Set EPOD actual signatory to blank (Y/N)?  | SYSTEM      |
| EPOD_SIGNATURE_STORAGE          | Store signature received from EPOD   | COST_CENTRE |
| EPOD_SIGNATORY                  | Controls if signatory is stored from EPOD  | SYSTEM      |
| EPOD_SITE_ID                    | Alternate DB name for EPOD WS  | SYSTEM      |
| EPOD_SITE_ID_FORMAT             | Indicates whether the value passed in the EPL Site ID to EPOD is the Database Name(DB), Cost Centre (CC) or Carrier ID (CI). | SYSTEM      |
| EPOD_TNC_STORAGE                | Are TNC recorded in C-TMS  | COST_CENTRE |
| EPOD_UPDATE_ETA                 | Are ETAs calculated in EPOD  | COST_CENTRE |
| EPOD_VIEW_POD_URL               | URL for viewing EPOD Documents   | SYSTEM      |
| EPOD_WS_ADDRESS                 | EPOD Web Service End Point   | SYSTEM      |
| EPOD_WS_ADDRESS_NHSPRD          | EPOD Web Service End Point   | SYSTEM      |
| EPOD_WS_MESSAGE_FORMAT          | EPOD message format - can either be PARCEL or BULK to define where fields are sent in the web service message                | SYSTEM      |
| EPOD_WS_PASSWORD                | EPOD Web Service Login Password  | SYSTEM      |
| EPOD_WS_TIMEOUT                 | Number of minutes before a WS message will be set to Held  | SYSTEM      |
| EPOD_WS_USERNAME                | EPOD Web Service Login Username  | SYSTEM      |



### 1.3 Mode Mapping



**Note:** Only MODE2 is recommended for new customers, due to the additional configurability of the interface. RETAIL is advised for products sent to EPOD at this time.

|                             | PARCEL  | RETAIL                                | BULK                                  | MODE1   | MODE2  |
|-----------------------------|---|---------------------------------------|---------------------------------------|---|--|
| EPOD_LOAD                   | Note: Populated this way in all modes   | Note: Populated this way in all modes | Note: Populated this way in all modes | Note: Populated this way in all modes   | Note: Populated this way in all modes  |
| EPL_SITE_ID                 | t_site_id (configurable through EPOD_SITE_ID_FORMAT)  | =>                                    | =>                                    | =>  | =>   |
| EPL_LOAD_ID                 | st.trip_id  | =>                                    | =>                                    | =>  | =>   |
| EPL_DELETE_LOAD             | "Y" if st.trip_status = "DELETED" else omitted  | =>                                    | =>                                    | =>  | =>   |
| EPL_LOAD_START_PLANNED_DATE | st.start_time   | =>                                    | =>                                    | =>  | =>   |
| EPL_LOAD_START_PLANNED_TIME | st.start_time   | =>                                    | =>                                    | =>  | =>   |
| EPL_LOAD_END_PLANNED_DATE   | st.end_time   | =>                                    | =>                                    | =>  | =>   |
| EPL_LOAD_END_PLANNED_TIME   | st.end_time   | =>                                    | =>                                    | =>  | =>   |
| EPL_LOAD_DISTANCE_PLANNED   | st.distance   | =>                                    | =>                                    | =>  | =>   |
| EPL_VEHICLE_ID              | st.tractor_id   | =>                                    | =>                                    | =>  | =>   |
| EPL_USER_ID                 | rp.epod_username  | =>                                    | =>                                    | =>  | =>   |
| EPL_LOAD_INFORMATION        | Package Types (dry/wet ice) if present, or Equipment/qty (configurable through EPOD_SEND_EQUIPMENT) | =>                                    | =>                                    | =>  | =>   |
| EPL_TIMEZONE                | tzm.tz_name from sts and gl.  | =>                                    | =>                                    | =>  | =>   |
| EPOD_JOB                    |   |                                       |                                       | Extra control over which jobs are sent and whether details are included based on location/location type flags.              | Extra control over which jobs are sent and whether details are included based on location/location type flags.<br><b>Also swap van functionality</b>   |
| EPL_SITE_ID                 | t_site_id (configurable through EPOD_SITE_ID_FORMAT)  | =>                                    | =>                                    | =>  | =>   |
| EPL_LOAD_ID                 | trip_id   | =>                                    | =>                                    | =>  | =>   |
| EPL_JOB_ID                  | NULL  | epod_oms_code (oms_ref + C or D)      | stop_id                               | NULL  | =>   |
| EPL_JOB_CODE                | oms_ref   | N/A                                   | N/A                                   | oms_ref   | =>   |
| EPL_JOB_TYPE                | v_job_details_parcel.job_type (based on sha.activity_name)  | =>                                    | =>                                    | stop_type   | =>   |
| EPL_JOB_GROUP               | t_job_group (configurable through EPOD_JOB_GROUP_FORMAT)  | =>                                    | =>                                    | t_job_group (configurable through EPOD_JOB_GROUP_FORMAT) Also includes config for the location (epod_job_group_load/unload) | =>   |
| EPL_CUST_REF                | v_job_details_parcel.customer_ref (so.external_ref)   | =>                                    | N/A                                   | external_ref  | external_ref   |
| EPL_JOB_INSTRUCTION         | so.special_instructions, plus stop, order and cost-centre instructions                              | =>                                    | sts.stop_id                           | so.special_instructions, plus stop, order and cost-centre instructions  | so.special_instructions, plus stop, order and cost-centre instructions<br><br>For swap van, special instructions for that linked job. If there are items that have not been correctly T2A scanned, |



|                        | PARCEL   | RETAIL | BULK | MODE1  | MODE2   |
|------------------------|--|--------|------|--|---|
|                        |  |        |      |  | includes warning for that. If there are no items correctly entered, includes warning for that.  |
| EPL_START_PLANNED_DATE | arrive_date (from sts.arrive)  | =>     | =>   | =>   | =>  |
| EPL_START_PLANNED_TIME | arrive_time (from sts.arrive)  | =>     | =>   | =>   | =>  |
| EPL_END_PLANNED_DATE   | depart_date (from sts.depart)  | =>     | =>   | =>   | =>  |
| EPL_END_PLANNED_TIME   | depart_time (from sts.depart)  | =>     | =>   | =>   | =>  |
| EPL_DISTANCE_PLANNED   | sts.distance_from_prev_stop  | =>     | =>   | =>   | =>  |
| EPL_CUSTOMER_CODE      | location_id (from_loc if loading, to_loc if unloading)                       | =>     | =>   | =>   | =>  |
| EPL_CUSTOMER_NAME      | location_name (from gl, linked by the location ID above)                     | =>     | =>   | =>   | =>  |
| EPL_ADDRESS_1          | address_line1  | =>     | =>   | =>   | =>  |
| EPL_ADDRESS_2          | address_line2  | =>     | =>   | =>   | =>  |
| EPL_ADDRESS_3          | address_line3  | =>     | =>   | =>   | =>  |
| EPL_ADDRESS_4          | town   | =>     | =>   | =>   | =>  |
| EPL_ADDRESS_5          | N/A  | N/A    | N/A  | N/A  | N/A   |
| EPL_POSTCODE           | postcode   | =>     | =>   | =>   | =>  |
| EPL_CONTACT            | from order contacts at that location, or location contacts for that location | =>     | =>   | As before, but better coded  | =>  |
| EPL_TELEPHONE          | from order contacts at that location, or location contacts for that location | =>     | =>   | As before, but better coded  | =>  |
| EPL_EMAIL              | from order contacts at that location, or location contacts for that location | =>     | =>   | As before, but better coded  | =>  |
| EPL_SO_NUMBER          | N/A  | N/A    | N/A  | booking_ref  | =>  |
| EPL_EXT_REF            | N/A  | N/A    | N/A  | del_point_ref  | =>  |
| EPL_SEQUENCE           | N/A  | N/A    | N/A  | stop_no  | =>  |
| EPL_LINKED_ID          | N/A  | N/A    | N/A  | t_link_id (based on whether locations are linked in CTMS) EPOD_CONSOLIDATION_LEVEL   | =>  |
| EPL_UDF_JOBSDETS       | N/A  | N/A    | N/A  | Summary of all packaging, equipment and DU types on the order.<br><br><ul style="list-style-type: none"> <li>• Summary of DU types on the order lines - only counts quantity if sol.inner_lfs_package = "Y". Only adds DU type where the quantity &gt; 0. Only sent at the FROM_LOC of order.</li> <li>• Summary of packaging (gel pack, dry ice) on the order lines - lines only included if there is any of those listed types only. Only sent at the FROM_LOC of order.</li> <li>• Summary of equipment on the order (configurable through EPOD_SEND_EQUIPMENT). Only sent at the FROM_LOC and TO_LOC of order.</li> </ul> In UDF format. | Summary of all packaging, equipment and DU types on the order.<br><br><ul style="list-style-type: none"> <li>• Summary of DU types on the order lines. Only sent at the FROM_LOC of order.</li> <li>• Summary of packaging (gel pack, dry ice) on the order lines - lines only included if there is any of those listed types only. Only sent at the FROM_LOC of order.</li> <li>• Summary of equipment on the order (configurable through EPOD_SEND_EQUIPMENT). Only sent at the FROM_LOC and TO_LOC of order.</li> </ul> In UDF format. |
| EPL_OWNER_ID           | N/A  | N/A    | N/A  | N/A  | lots_installed (if present) else customer (if EPOD_OWNER_CONFIG="C") else N/A   |



|                            | PARCEL   | RETAIL  | BULK  | MODE1  | MODE2   |
|----------------------------|--|---|---|--|---|
| EPL_OWNER_NAME             | oc.lots_installed                                    | =>  | N/A   | oc.lots_installed  | oc.lots_installed ((if EPOD_OWNER_CONFIG<=>"C") else customer_name  |
| EPL_TRAILER_ID             | sts.trailer_id                                       | =>  | =>  | N/A  | trailer_id of swap van record if present, else N/A  |
| EPL_TIMEZONE               | N/A  | N/A   | N/A   | t.job_tz_name  | =>  |
| EPL_LOADING_TYPE           | N/A  | N/A   | N/A   | N/A  | v.loading_type (based off stop_type and location_id of stop is from_loc/to_loc of order)  |
| EPL_SWAP_VEHICLE           | N/A  | N/A   | N/A   | N/A  | "Y" if swap van else ""   |
| EPOD_JOB_ADDRESS           | N/A  | N/A   | N/A   | "D" address sent if at FROM_LOC of order.<br>"C" address sent if at TO_LOC of order.   | =>  |
| EPL_NAME                   | N/A  | N/A   | N/A   | address_name   | =>  |
| EPL_ADDRESS_1              | N/A  | N/A   | N/A   | address_line_1   | =>  |
| EPL_ADDRESS_2              | N/A  | N/A   | N/A   | address_line_2   | =>  |
| EPL_ADDRESS_3              | N/A  | N/A   | N/A   | address_line_3   | =>  |
| EPL_ADDRESS_4              | N/A  | N/A   | N/A   | town   | =>  |
| EPL_ADDRESS_5              | N/A  | N/A   | N/A   | county   | =>  |
| EPL_POSTCODE               | N/A  | N/A   | N/A   | postcode   | =>  |
| EPL_CONTACT                | N/A  | N/A   | N/A   | from order contacts at that location, or location contacts for that location   | =>  |
| EPL_TELEPHONE              | N/A  | N/A   | N/A   | from order contacts at that location, or location contacts for that location   | =>  |
| EPL_EMAIL                  | N/A  | N/A   | N/A   | from order contacts at that location, or location contacts for that location   | =>  |
| EPOD_CONTAINER             |  |   |   | Only sent if configured (epod_send_details_load/unload of stop location/location type<br><br>Configured by EPOD_ITEM_LEVEL - if IC, sending items as containers else, sending items as products - only site/job/container populated, container with value "0000000000000000" | Only sent if configured (epod_send_details_load/unload of stop location/location type<br><br>Configured by EPOD_ITEM_LEVEL - if IC, sending items as containers else, sending order lines as products - only site/job/container populated, container with value ""0000000000000000"<br>Container not sent if not properly T2A scanned or no pallet ID |
| EPL_SITE_ID                | t.site_id (configurable through EPOD_SITE_ID_FORMAT) | =>  | =>  | =>   | =>  |
| EPL_JOB_ID                 | NULL   | epod_oms_code (oms_ref + C or D)              | sts.stop_id                                   | NULL   | =>  |
| EPL_CONTAINER_ID           | soi.item_identifier                                  | container_id (sol.oms_ref * 1000+sol.line_no) | container_id (sol.oms_ref * 1000+sol.line_no) | item_identifier (with suffix removed if reusable asset)  | pallet_id   |
| EPL_SEQUENCE               | I (a count)  | N/A   | N/A   | I (count)  | I (count)   |
| EPL_CONTAINER_PACKAGE_CODE | soi.prod_type_id                                     | package_code (sol.product_type)               | N/A   | du_type  | =>  |
| EPL_CONTAINER_PACKAGE_DESC | soi.item_description                                 | description (sol.quantity +sol.product_type + | N/A   | du_desc  | =>  |



|                         | PARCEL  | RETAIL  | BULK                      | MODE1   | MODE2           |
|-------------------------|---|---|---------------------------|---|-----------------|
|                         |   | sol.du_type)  |                           |   |                 |
| EPL_GROSS_WEIGHT        | soi.gross_weight  | gross_weight (sol.weight)   | gross_weight (sol.weight) | r_items.gross_weight  | v_gross_weight  |
| EPL_CODE_1              | dimension from soi.item_aka_code  | dimension (sol.dimension if present, otherwise max value from eoi.item_aka_code | N/A                       | Based on EPOD_CONTAINER_CODE1<br>DIMS - r_items.dims PART 0<br>v_part_no  | =>              |
| EPL_CODE_2              | N/A   | N/A   | N/A                       | Based on EPOD_CONTAINER_CODE2<br>DIMS - r_items.dims PART 0<br>v_part_no  | =>              |
| EPL_CODE_3              | N/A   | N/A   | N/A                       | Based on EPOD_CONTAINER_CODE3<br>DIMS - r_items.dims PART 0<br>v_part_no  | =>              |
| EPL_DESCRIPTION_LONG    | N/A   | N/A   | N/A                       | Based on EPOD_CONTAINER_DESCRIPTION<br>COMMODITY - commodity<br>DESCRIPTION - item_description<br>PROD_DESC -<br>dimension-item_description   | =>              |
| EPL_FLAGS               | Fields, including HAZARDOUS, GEL, DRY and RADIO. Note that all of this information is blanked in PARCEL mode) | =>  | N/A                       | Fields, including HAZARDOUS, GEL, DRY and RADIO.  | =>              |
| EPL_VALID_DATE          | N/A   | N/A   | N/A                       | N/A   | v_validate_date |
| EPL_VALID_TIME          | N/A   | N/A   | N/A                       | N/A   | v_validate_date |
| EPOD_PRODUCT            | N/A   | Per container   | Per container             | Configured by EPOD_ITEM_LEVEL -<br>if IC, sending items as containers else,<br>sending lines as products - only<br>site/job/container populated, container<br>with value "0000000000000000" | =>              |
| EPL_SITE_ID             | N/A   | t_site_id (configurable through EPOD_SITE_ID_FORMAT)                            | =>                        | =>  | =>              |
| EPL_JOB_ID              | N/A   | epod_oms_code (oms_ref + C or D)  | stop_id                   | oms_ref   | =>              |
| EPL_CONTAINER_ID        | N/A   | container_id (sol.oms_ref * 1000+sol.line_no)                                   | container_id              | N/A   | =>              |
| EPL_PRODUCT_CODE        | N/A   | soi.item_identifier   | soi.item_identifier       | du_type   | =>              |
| EPL_SEQUENCE            | N/A   | 0001  | =>                        | line_no   | =>              |
| EPL_CUST_REF            | N/A   | cust_ref (item_aka_code)  | N/A                       | N/A   | =>              |
| EPL_DESCRIPTION         | N/A   | soi.item_description  | soi.item_description      | v_du_desc   | =>              |
| EPL_PRODUCT_QTY_PLANNED | N/A   | soi.qty_ordered   | soi.qty_ordered           | quantity  | =>              |



|                    | PARCEL | RETAIL                  | BULK             | MODE1        | MODE2 |
|--------------------|--------|-------------------------|------------------|--------------|-------|
| EPL_ITEM_TYPE      | N/A    | item_type (soi.du_type) | N/A              | product_type | =>    |
| EPL_UNIT_TYPE      | N/A    | soi.prod_type_id        | soi.prod_type_id | N/A          | =>    |
| EPL_PRODUCT_WEIGHT | N/A    | soi.weight              | soi.weight       | gross_weight | =>    |



## 2 Calidus Web Service Audit

The Calidus Web Service Audit screen is used to check the status of messages sent through web service APIs to and from CTMS, and see the messages and status.

The screenshot shows the 'Calidus Web Service Audit' application window. At the top right, it displays 'EPOD\_WSA v1.13' and 'C-TMS v12.45'. Below the title bar is a search area with fields for 'Reference', 'Date', 'Direction', and 'Status', along with a 'Search' button. A table below the search area lists audit records with columns for 'Audit ID', 'Reference', 'Date', 'Direction', and 'Status'. The second row is highlighted in yellow.

| Audit ID | Reference | Date           | Direction   | Status |
|----------|-----------|----------------|-------------|--------|
| 2367576  | SF039934  | 08/05/24 08:37 | IN_APL_CUST | ACK    |
| 2367059  |           | 08/05/24 00:00 | SERVER_DOWN | NAK    |
| 2365859  |           | 07/05/24 04:00 | SERVER_DOWN | NAK    |
|          |           |                |             |        |
|          |           |                |             |        |

Below the table is a large text area displaying an XML message. The XML content is as follows:

```
<?xml version="1.0" encoding="UTF-8"?>
<OBS_XML>
<EVENT>
  <EVENT_HEADER>
  <EVENT_PROCESSED>N</EVENT_PROCESSED>
  <EVENT_SOURCE_TYPE>TMS</EVENT_SOURCE_TYPE>
  <EVENT_SOURCE_NAME></EVENT_SOURCE_NAME>
    <EVENT_DATE>2024-05-08T00:00:25</EVENT_DATE>
    <EVENT_TYPE>TRP</EVENT_TYPE>
    <EVENT_ACTION>C</EVENT_ACTION>
  </EVENT_HEADER>
  <EVENT_DETAIL>
    <TRIP_HEADER>
      <TRIP_IDENTIFIER>T</TRIP_IDENTIFIER>
      <TRIP_TRANSACTION_DATE>2024-02-29T09:44:04</TRIP_TRANSACTION_DATE>
      <TRIP_ID>PAR-00001212</TRIP_ID>
    </TRIP_HEADER>
```

On the right side of the XML view, the text 'Server Down' is displayed. A 'Close' button is located at the bottom center of the window.



You can filter the messages by the following:

- Reference
- Date
- Direction - the type of API. There are many - see below.
- Status - one of the following:
  - ◆ ACK - acknowledged - no issues.
  - ◆ NAK - not acknowledged - no process has taken place.
  - ◆ WAK - acknowledged with a warning. Some processing has taken place. See the response for details.

Direction indicates the type of interface through the webservice, into or out of CTMS, and the method. Select from one of the following, or leave blank:

- Inbound - Load and Job messages from C-ePOD to CTMS.
- Outbound - Load and Job messages from CTMS to C-ePOD.
- Inbound Trip
- Driver - Driver updates from CTMS to C-ePOD.
- Vehicle - Vehicle updates from CTMS to C-ePOD.
- Reason - Reason code updates from CTMS to C-ePOD.
- Web Service Orders
- Outbound API - TripOrder messages from C-TMS outbound.
- Carrier API
- Vehicle Search - Query from C-ePOD to CTMS for customer vehicle details.
- Job Swap - Job Swap messages from C-ePOD to CTMS.
- Order Enquiry
- Inbound API Order - TripOrder messages inbound to CTMS to create orders.
- Inbound API Customer - inbound customer onboarding messages to CTMS to create customers and customer-owned locations.
- Vehicle Position Request - request for C-ePOD vehicle position.
- Paragon API - Paragon API requests.

Depending on your configuration, one or many of these interfaces may be of paramount importance to view, to potentially deal with any issues.

You should select the criteria that matches the interface you want to investigate or see.

When you click the **Search** button, the results are displayed in the table below.

When you click on a message, you can see the request (the data sent) and the response from the server.



## 3 Customer Onboarding Interface

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

### 3.1 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/orawsv/MTS_OWNER/DP_CTMS_IMPORT/IMPORT_CUSTOMER>
  <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>
```



```

    </RETURN>
  </IMPORT_CUSTOMEROutput>
</soap:Body>
</soap:Envelope>

```

## 3.2 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.

## 3.3 Content Format

Content is XML.



### 3.3.1 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 error this 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          |     | 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   |  |



| Field              | Size         | Default | Req | Notes  |
|--------------------|--------------|---------|-----|--|
| 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   |

### 3.4 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 <i>not</i> be overwritten by the default value parameter. |



| Field                   | Size          | Default   | Req | Notes  |
|-------------------------|---------------|-----------|-----|--|
| 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 <i>not</i> be overwritten by the default value parameter. |
| 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.

### 3.4.1 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.

### 3.4.2 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   |                                       |
| 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.

### 3.4.3 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.

## 3.5 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>
      <COUNTRY></COUNTRY>
      <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>
    <COUNTRY></COUNTRY>
    <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>

```

### 3.6 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.

### 3.7 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 RESULT 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) |



| RESULT attribute | STATUS tag | STATUS_MSG tag   |
|------------------|------------|--|
| ACK              | SUCCESS    | Location created.  |
| ACK              | SUCCESS    | Location updated.  |
| 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).            |



## 4 Extracts

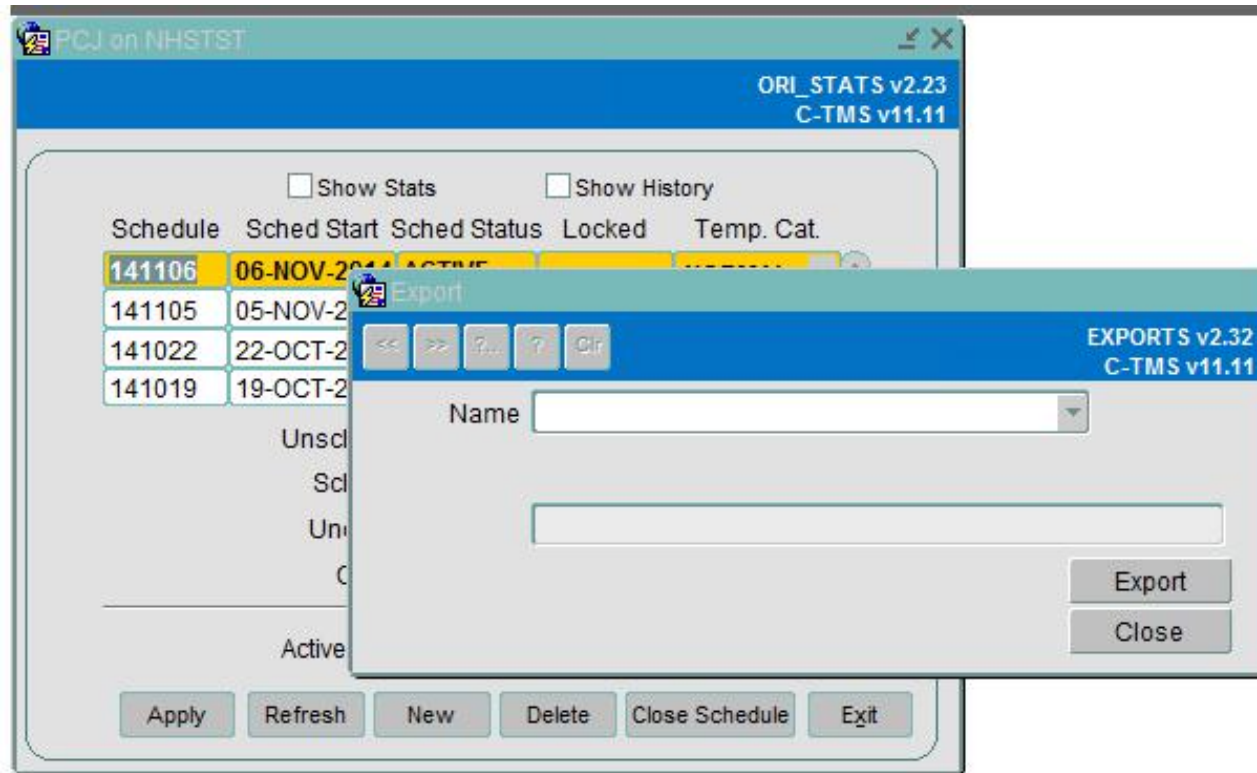
C-TMS Exports provides the users with Extracts of data that are required for day to day operations, finance and management reporting.

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.

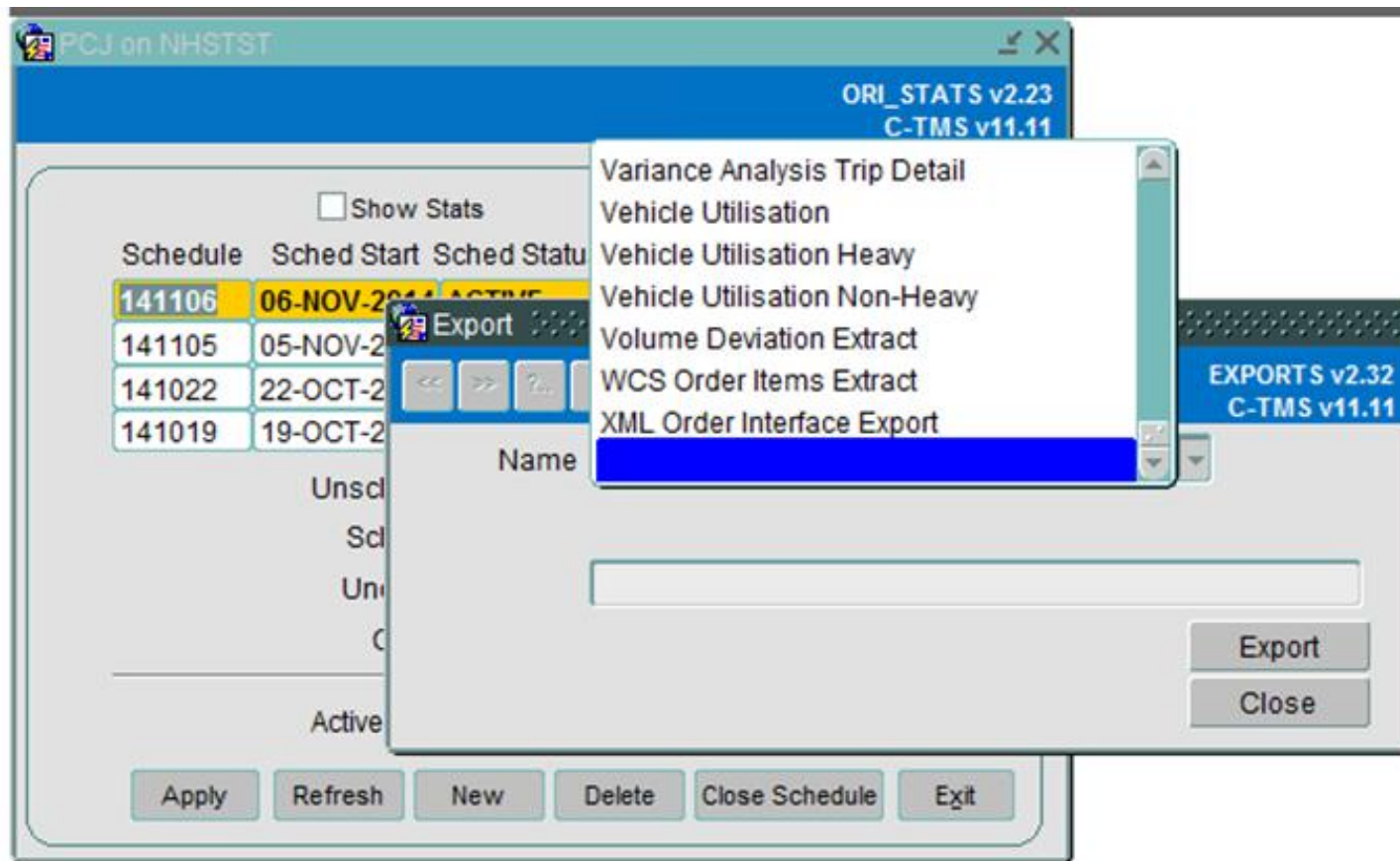
C-TMS Exports can be accessed from the C-TMS Modules menu


### 4.1 Generating Exports

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



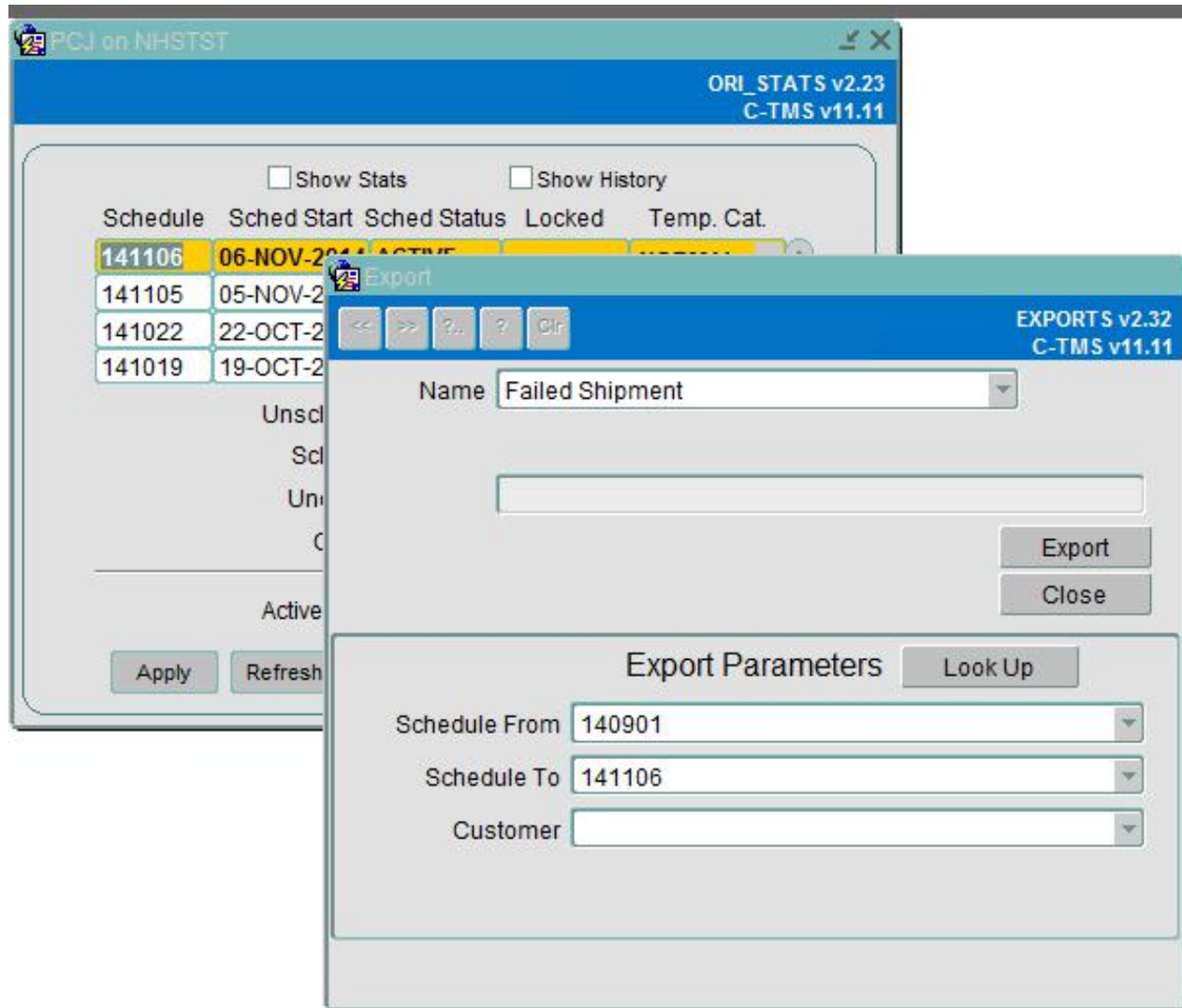
Select the required extract from the drop down field. Based on the Extract that you are selecting a list of parameters for generating the Extract will be displayed as shown below.



 **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.

## 4.2 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   |
| Depot Exits by Hour (RPE)   | This export shows which products were unloaded - in hourly chunks on a range of dates in RPE   |
| Equipment Moves             | The export extracts all of the equipment (DU Type) despatches, receipts, returns and exchanges.<br>You can select by From/To Date/Time, Customer, Carrier and Owning Depot.<br>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.  |



| Export                         | Description   |
|--------------------------------|---|
| 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](#).



## 5 Extracts - WCS Scanning

A number of existing extracts exist for the monitoring the WCS scanning process. These request several common parameters.

The exact parameters of each report are shown below, but the following shows detailed descriptions of how these parameters will work;

- Date Range - required date range, filtering by default to one day's data, from today's date. The To date will default to the same date - both From and To date may be modified by the user.
- Date and Time Range - filtering by default to one day's data, from today's date at 00:00 to Today's date at 23:59. The To date will default to the From date - both From and To date and time may be modified by the user.
- Schedule or Schedule Range - required schedule or range of schedules, selecting from drop-down lists.
- Customer - a drop-down list of Auto Alliance customers, with an option to select All, many or 1.
- Asset - A lookup list of all available assets in the system. May be left blank to select all values. Allows direct typing of the selected value.
- Asset Type - select from a list of asset types.
- Driver/User ID - a lookup of all drivers, allowing selection of one, many or all. May be left blank to select all values. Allows direct typing of the selected value.
- Last Scan Location - a lookup list of all locations associated to the customer selected (if selected), allowing selection of one, many or all. May be left blank to select all values. Allows direct typing of the selected value.
- Dealer - as above, but limited only to dealership locations.
- Depot - a drop-down list of all Owing Depots, with an option to select one, many or all.
- Route - a lookup list of all routes created within C-TMS for the selected owning depot, allowing selection of one, many or all. May be left blank to select all values. Allows direct typing of the selected value.
- Media Type - a lookup list of all media types within the system, allowing selection of one, many or all. May be left blank to select all values. Allows direct typing of the selected value.

### 5.1 AA Trip and Order Detail

The report will allow selection of the following parameters;

- Start Schedule - required.
- Carrier
- Group Name (Required)
- Activity

The report will extract the information from the Trip and Order data and will display;

- The criteria used for selection
- The selected data with titles for each column

The data items shown will be as follows;



- Order Status,
- From Location Id,
- From Location Name,
- To Location Id,
- To Location Name,
- Postcode,
- Postal Region,
- Planning Region,
- Current Location Id,
- Current Location Name,
- Customer,
- Order Cost Centre,
- Order Schedule,
- OMS Ref,
- Booking Ref,
- Booked In,
- Customer Ref,
- Del Point Ref,
- Shipping Ref,
- Group Name,
- Early Collect,
- Late Collect,
- Early Delivery,
- Late Delivery,
- Product Type,
- DU Type,
- Planned DU Quantity,
- Planned Weight,
- Cases,
- Planned RPE Quantity,
- Actual DU Quantity,
- Actual Dispatched,
- Actual Delivered,
- Actual Weight,
- Special Instructions,
- Order Comments,
- Lane Comments,
- Delivery Type,
- Order Cost Revenue,
- Order Cost VAT,
- Allocated from Trip,
- Order Revenue,
- Order VAT,



- Container No.,
- POD CMR No.,
- Non-Conformance Reason Codes,
- Created By,
- Created Date,
- Last Modified By,
- Last Modified Date,
- Trip Schedule,
- Trip Status,
- Trip Number,
- Start Time,
- Departure Time,
- Stop No.,
- Planned Arrive,
- Actual Arrive,
- Planned Depart,
- Actual Depart,
- Activity Name,
- Trailer Type,
- Trailer ID,
- Owning Depot,
- Trip Cost Centre,
- Carrier,
- Trip Ref,
- Driver,
- Vehicle,
- Seal No.,
- Planned Distance,
- Total Elapsed Time,
- Total Drive Time,
- Trip Currency,
- Trip Cost,
- Trip Allocable Cost,
- Trip VAT,
- Customer Fuel Charge,
- Customer Premium Charge,
- POD Received Date,
- KM from previous Stop,
- Stop Type,
- Actual Distance,
- Route Code,



## 5.2 Asset Dwell

The report will allow selection of the following parameters;

- Asset Type

The report will extract the information from the Asset and Audit data and will display;

- The criteria used for selection
- The selected data with titles for each column

The data items shown will be as follows;

- Asset ID,
- Asset Type,
- Current Location,
- Location Name,
- Alt Date,
- Dwell Days

## 5.3 Asset History

|        | 01/12 thru 03/12 | BMW      | Asset |            |               |          |         | Driver/User id | Time and Date |
|--------|------------------|----------|-------|------------|---------------|----------|---------|----------------|---------------|
| FILTER | Date             | Customer | Asset | Media type | Scan Location | Vehicle  | Trailer | Driver/User    | Scan Detail   |
|        | 01-Dec           | BMW      | 1234  | LRC        | Pineham       | AB12 DEF | AA001   | John           | 06:15         |
|        | 01-Dec           | BMW      | 1234  | LRC        | Halewood      | DE25 KLP | N/A     | Fred           | 02:15         |
|        | 01-Dec           | BMW      | 1234  | LRC        | B123          | DE65 POL | N/A     | Dave           | 13:35         |
|        | 02-Dec           | BMW      | 1234  | LRC        | Halewood      | AB12 DEF | AA001   | John           | 06:15         |
|        | 02-Dec           | BMW      | 1234  | LRC        | Pineham       | DE25 KLP | N/A     | Fred           | 02:15         |
|        | 02-Dec           | BMW      | 1234  | LRC        | Cirencester   | DE65 POL | N/A     | Dave           | 13:35         |
|        | 02-Dec           | BMW      | 1234  | LRC        | B456          | HT57 ABC | N/A     | Bill           | 12:15         |
|        | 03-Dec           | BMW      | 1234  | LRC        | Cirencester   | AB12 DEF | AA001   | John           | 06:15         |
|        | 03-Dec           | BMW      | 1234  | LRC        | Pineham       | DE25 KLP | N/A     | Fred           | 02:15         |
|        | 03-Dec           | BMW      | 1234  | LRC        | B987          | DE65 POL | N/A     | Dave           | 13:35         |
|        | 03-Dec           | BMW      | 1234  | LRC        | Pineham       | HT57 ABC | N/A     | Bill           | 14:45         |



The report will allow selection of the following parameters;

- Date and Time Range - required, filtering on scan date.
- Customer
- Asset
- Driver/User ID

The report will extract the information from the Order Item and Audit data and will display;

- The criteria used for selection
- The selected data with titles for each column

The data items shown will be as follows;

- Scan Date - the date of the scan
- Customer - the customer code
- Asset - The Asset ID
- Media Type - the DU Type of the asset
- Scan Location - the location description
- Location Name
- Vehicle - the Tractor ID
- Trailer - the Trailer ID
- Driver/User ID - the driver forename and surname concatenated, separated by a space.
- Scan Time - The time of scan.
- Scan Activity - Whether Loading, Unloading, etc
- Scan Process - the application scanning the item

## 5.4 Asset Status

This report is intended to show the last location of items scanned. The report will report all items that match the criteria, and display the information against the items, with the date and time of the last scan.



|            | Date   | BMW      | Asset |            | Last Scan in C-TMS |          | Time and Date |
|------------|--------|----------|-------|------------|--------------------|----------|---------------|
| FILTER     | Date   | Customer | Asset | Media type | Dealer             | Quantity | Scan Detail   |
| Sub totals | 01-Dec | BMW      |       |            | Pineham            | 2        |               |
|            | 01-Dec | BMW      |       |            | Halewood           | 1        |               |
|            | 01-Dec | BMW      |       |            | Dealers            | 6        |               |
|            | 01-Dec | BMW      |       |            | In Transit         | 2        |               |
|            |        |          |       |            |                    |          |               |
| Summary    | 01-Dec | BMW      |       | LRC        |                    | 4        |               |
|            | 01-Dec | BMW      |       | SRC        |                    | 7        |               |
|            |        |          |       |            |                    |          |               |
| FILTER     | Date   | Customer | Asset | Media type | Dealer             | Quantity | Scan Detail   |
|            | 01-Dec | BMW      | 1234  | LRC        | B123               | 1        | 06:15         |
|            | 01-Dec | BMW      | 2345  | SRC        | B123               | 1        | 02:15         |
|            | 01-Dec | BMW      | 3456  | SRC        | Pineham            | 1        | 13:35         |
|            | 01-Dec | BMW      | 5433  | SRC        | B123               | 1        | 12:15         |
|            | 01-Dec | BMW      | 2211  | SRC        | Halewood           | 1        | 10:33         |
|            | 01-Dec | BMW      | 1111  | SRC        | B123               | 1        | 03:30         |
|            | 01-Dec | BMW      | 5555  | SRC        | Pineham            | 1        | 12:40         |
|            | 01-Dec | BMW      | 3212  | SRC        | B123               | 1        | 09:10         |
|            | 01-Dec | BMW      | 6789  | LRC        | B123               | 1        | 09:09         |
|            | 01-Dec | BMW      | 8765  | LRC        | In Transit         | 1        | 11:30         |
|            | 01-Dec | BMW      | 5544  | LRC        | In Transit         | 1        | 11:45         |

The report will allow selection of the following parameters;

- Customer
- Asset
- Last Scan Location

The report will extract the information from the Order Item and Audit data and will display;



- The criteria used for selection
- A series of sub-total rows with titles for each column
- A series of summary rows
- The selected data with titles for each column.

The data items shown will be as follows;

- Last Scan Date - the date of the scan
- Customer - the customer code
- Asset - The Asset ID
- Media Type - the DU Type of the asset
- Last Scan Location - the location ID
- Quantity - the number of items scanned (expected to be 1)
- Last Scan Time - The time of scan.
- Scan Type - Whether Loading, Unloading, etc

The Sub-total section will show the following items, sub-totalled at Date, Customer and Dealer;

- Quantity

The summary section will show the following items, sub-totalled at Date, Customer and Media Type;

- Quantity

## 5.5 Driver Scanning

This report is intended to show how the driver collected or delivered goods from or to the dealership, through the Microlise data captured.





- Activity
- Media Type - the DU Type of the asset
- Asset or Item information, including:

o Asset - the Asset ID o Pallet ID o Item Weight o Item Volume

- Deadline - the CUTOFF held against the Dealership Location, formatted with ?Pre-? (see section 2.3.1.1 above for details)
- Actual Time
- Count - Orders Created (assumed 1)
- Scanned
- Scan Type - SCAN, KEYED or ACCEPT - the scan type from the Item Audit (see section 2.3.11 above for details)
- Scan Time
- Driver Percentage
- Driver/User ID - the driver forename and surname concatenated, separated by a space.

The summary section will show the following items, sub-totalled at Date and Scan Type;

- Orders Created
- Percentage of total

A total line will be shown for ALL scan types.

## 5.6 On Time Arrivals

The report will allow selection of the following parameters;

- Schedule Range - required, filtering on planned collection date
- Customer
- Dealer
- DHL Depot
- Route
- Media Type

The report will extract the information from the Order Item and Audit data for Microlise scans of collection return orders only and will display;

- The criteria used for selection
- A summary line with titles for each column
- The selected data with titles for each column

The data items shown will be as follows;



- Schedule Name- the date the item was scanned collected
- Customer - the customer code
- Dealer - the Dealership location ID
- Dealer Name
- DHL Depot - The Owning Depot Code
- Depot Name
- Load Depot
- Load Depot Name
- Route - the Route Code (if there is one)
- Deadline - the CUTOFF held against the Dealership Location, formatted with ?Pre-? (see section 2.3.1.1 above for details)
- Drops
- Actual FPOC
- On Time
- Exception Code - the reason code entered against the item
- Force Majeure - Whether this reason code is designated Force Majeure (see section 2.3.1.4 above for details).

The summary section will show the following items, sub-totalled at Date;

- On Time
- Exceptions
- Variance (against deadline)

## 5.7 On Time Returns

This report is a measure of all requested web portal orders, collected on-time, or at all. This measures on-time versus the cut-off time held against the dealership, rather than versus the planned collection time.



|           | 01-Dec    | ALL      | All    | All         | All   | All        |                         |           | Collection Requests | Time and Date | Against Deadline | Force Majeure  |
|-----------|-----------|----------|--------|-------------|-------|------------|-------------------------|-----------|---------------------|---------------|------------------|----------------|
| FILTER    | Date      | Customer | Dealer | DHL Depot   | Route | Media type | Asset                   | Deadline  | Collection Orders   | FPOC          | Variance         | Exception Code |
| Summary   | 01-Dec    | ALL      | All    | All         | All   | All        |                         |           | 11                  | 9             | 81.82%           |                |
|           |           |          |        |             |       |            |                         |           |                     |               |                  |                |
| FILTER    | Date      | Customer | Dealer | DHL Depot   | Route | Media type | Asset                   | Deadline  | Collection Orders   | FPOC          | Variance         | Exception Code |
| Exception | 01-Dec    | SCANIA   | B876   | Pineham     | H05   | LRC        | 7890                    | Pre-08:00 | 1                   | 0             | 1                | Y              |
|           | 01-Dec    | SCANIA   | B765   | Hatfield    | H07   | LRC        | 4321                    | Pre-08:00 | 1                   | 0             | 1                | N              |
|           | Sub total |          |        |             |       |            |                         |           | 2                   | 0             | 18.18%           |                |
|           |           |          |        |             |       |            |                         |           |                     |               |                  |                |
| FILTE     | Date      | Customer | Dealer | DHL Depot   | Route | Media type | Asset or Item reference | Deadline  | Collection Order    | FPOC          | Variance         | Exception Code |
|           | 01-Dec    | VOLVO    | B123   | Cirencester | H01   | LRC        | 1234                    | Pre-08:00 | 1                   | 1             | 0                |                |
|           | 01-Dec    | BMW      | B123   | Halewood    | H01   | SRC        | 3211                    | Pre-08:00 | 1                   | 1             | 0                |                |
|           | 01-Dec    | BMW      | B123   | Leeds       | H01   | LSE        | BMW12345                | Pre-08:00 | 1                   | 1             | 0                |                |
|           | 01-Dec    | SCANIA   | B654   | Leeds       | H05   | ENG        | BMW12345                | Pre-07:30 | 1                   | 1             | 0                |                |
|           | 01-Dec    | SCANIA   | B999   | Hams Hall   | H05   | LRC        | 9090                    | Pre-06:00 | 1                   | 1             | 0                |                |
|           | 01-Dec    | SCANIA   | B876   | Pineham     | H05   | LRC        | 7890                    | Pre-08:00 | 1                   | 0             | 1                | Y              |
|           | 01-Dec    | SCANIA   | B765   | Hatfield    | H07   | LRC        | 4321                    | Pre-08:00 | 1                   | 0             | 1                | N              |
|           | 01-Dec    | COLT     | B666   | Avonmouth   | H07   | LRC        | 5432                    | Pre-06:00 | 1                   | 1             | 0                |                |
|           | 01-Dec    | COLT     | B543   | Bellshill   | H07   | SRC        | 6677                    | Pre-08:00 | 1                   | 1             | 0                |                |
|           | 01-Dec    | COLT     | B654   | Avonmouth   | H07   | SRC        | 8877                    | Pre-06:00 | 1                   | 1             | 0                |                |
|           | 01-Dec    | DRIO     | B098   | Billingham  | H07   | LRC        | 5678                    | Pre-10:30 | 1                   | 1             | 0                |                |

The report will allow selection of the following parameters;

- Date Range - required, filtering on planned collection date
- Customer
- Dealer
- DHL Depot
- Route
- Media Type

The report will extract the information from the Order Item and Audit data for Microlise scans of collection return orders only and will display;

- The criteria used for selection
- A summary line with titles for each column
- A list of all exceptions encountered with titles for each column, with a total row
- The selected data with titles for each column

The data items shown will be as follows;

- Date - the date and time the return item was scanned collected
- Customer - the customer code
- Dealer - the Dealership location ID
- Dealer Name
- DHL Depot - The Owning Depot Code
- Depot Name



- Route - the Route Code (if there is one)
- Media Type - the DU Type of the asset
- Asset or Item Reference
- Deadline - the CUTOFF held against the Dealership Location, formatted with ?Pre-? (see section 2.3.1.1 above for details)
- Actual FPOC
- Collection Orders (assuming 1)
- FPOC - the final POC proof of collection date and time
- Variance - 0 if the item was undelivered with a reason code, else 1
- Exception Code - the reason code entered against the item
- Force Majeure - Whether this reason code is designated Force Majeure (see section 2.3.1.4 above for details).

The summary section will show the following items, sub-totalled at Date;

- Collection Orders
- FPOC
- Variance (against deadline)

The Exception section will show the following items in detail, summarised at Date, Customer, Dealer, DHL Depot, Route and Force Majeure:

- Date
- Customer
- Dealer
- DHL Depot
- Route
- Media Type
- Deadline
- Collection Orders (sub-totalled)
- FPOC (assumed 0)
- Variance (qty) (as Collection Orders)
- Force Majeure

A total row will summarise at Date, Customer, Dealer, DHL Depot, Route and Media Type:

- Date
- Customer
- Dealer
- DHL Depot
- Route
- Media Type
- Collection Orders
- FPOC
- Variance (qty versus total)



## 5.8 On Time Drops

This report is intended to show On Time Drops rather than the following On Time Items, the major difference that this report is based on the trip stops at a location, rather than quantity of items. Note that this report requires manual debriefing of the stops in C-TMS.

|           | 01-Dec    | ALL      | All    | All         | All   |           | Time and Date | Time and Date | Against Deadline | Exception code | Force Majeure  |
|-----------|-----------|----------|--------|-------------|-------|-----------|---------------|---------------|------------------|----------------|----------------|
| FILTER    | Date      | Customer | Dealer | DHL Depot   | Route | Deadline  | Drops         | ACTUAL FPOD   | On Time          | Exception Code | Exception Code |
| Summary   | 01-Dec    | ALL      | All    | All         | All   |           | 11            |               | 81.82%           |                |                |
|           |           |          |        |             |       |           |               |               |                  |                |                |
| FILTER    | Date      | Customer | Dealer | DHL Depot   | Route | Deadline  | Drops         | ACTUAL FPOD   | On Time          | Exception Code | Exception Code |
| Exception | 01-Dec    | SCANIA   | B654   | Leeds       | H05   | Pre-07:30 | 1             | 09:20         | N                | D              | Y              |
|           | 01-Dec    | SCANIA   | B999   | Hams Hall   | H05   | Pre-06:00 | 1             | 04:15         | N                | E              | N              |
|           | Sub total |          |        |             |       |           | 2             |               | 18.18%           |                |                |
|           |           |          |        |             |       |           |               |               |                  |                |                |
| FILTE     | Date      | Customer | Dealer | DHL Depot   | Route | Deadline  | Drops         | ACTUAL FPOD   | On Time          | Exception Co   | Exception Code |
|           | 01-Dec    | VOLVO    | B123   | Cirencester | H01   | Pre-08:00 | 1             | 07:10         | Y                |                |                |
|           | 01-Dec    | BMW      | B123   | Halewood    | H01   | Pre-08:00 | 1             | 02:12         | Y                |                |                |
|           | 01-Dec    | BMW      | B123   | Leeds       | H01   | Pre-08:00 | 1             | 04:23         | Y                |                |                |
|           | 01-Dec    | SCANIA   | B654   | Leeds       | H05   | Pre-07:30 | 1             | 09:20         | N                | D              | Y              |
|           | 01-Dec    | SCANIA   | B999   | Hams Hall   | H05   | Pre-06:00 | 1             | 04:15         | N                | E              | N              |
|           | 01-Dec    | SCANIA   | B876   | Pineham     | H05   | Pre-08:00 | 1             | 04:55         | Y                |                |                |
|           | 01-Dec    | SCANIA   | B765   | Hatfield    | H07   | Pre-08:00 | 1             | 03:00         | Y                |                |                |
|           | 01-Dec    | COLT     | B666   | Avonmouth   | H07   | Pre-06:00 | 1             | 04:22         | Y                |                |                |
|           | 01-Dec    | COLT     | B543   | Bellshill   | H07   | Pre-08:00 | 1             | 07:25         | Y                |                |                |
|           | 01-Dec    | COLT     | B654   | Avonmouth   | H07   | Pre-06:00 | 1             | 06:15         | Y                |                |                |
|           | 01-Dec    | ORIO     | B098   | Billingham  | H07   | Pre-10:30 | 1             | 09:45         | Y                |                |                |

The report will allow selection of the following parameters;

- Date Range - required, filtering on planned delivery date
- Customer
- Dealer
- DHL Depot
- Route
- Media Type

The report will extract the information from the C-TMS Trip Stops of delivery orders only and will display;

- The criteria used for selection
- A summary line with titles for each column
- A list of all exceptions encountered with titles for each column, with a total row



- The selected data with titles for each column

The data items shown will be as follows;

- Date - the date the return item was scanned delivered
- Customer - the customer code
- Dealer - the Dealership location ID
- Dealer Name
- Load Depot - The Loading Depot Code
- Depot Name
- Route - the Route Code (if there is one)
- Deadline - the CUTOFF held against the Dealership Location, formatted with ?Pre-? (see section 2.3.1.1 above for details)
- Drops (assuming 1)
- Actual FPOD - the final POD proof of delivery date and time
- On Time - N if the delivery was before the cut-off time, else Y
- Exception Code - the reason code captured for any exceptions
- Exception Code - Whether this reason code is designated Force Majeure (see section 2.3.1.4 above for details). This column will be headed Force Majeure

The summary section will show the following items, subtotalled at Date:

- Drops
- On Time (Percentage of total On Time versus the total orders)

The Exception section will show the following items summarised at Date, Customer, Dealer, DHL Depot and Route and Force Majeure, for each item with a reason code attached;

- Date
- Customer
- Dealer
- DHL Depot
- Route
- Deadline
- Drops
- Actual FPOD
- Percentage of On Time
- Force Majeure

A total row will summarise;

- Drops
- On Time (Percentage of total not On Time versus the total orders)



## 5.9 On Time Items

The On Time Items is very similar to On Time Drops, but shows each item asset ID for each of the drops, reporting to Item level. Drops are assumed to be delivery stops in the traffic plan for the trip.

|           | 01-Dec    | ALL      | All    | All         | All   | All        |       |           | Time and Date | Time and Date | Against Deadline | Exception Code | Force Majeure  |
|-----------|-----------|----------|--------|-------------|-------|------------|-------|-----------|---------------|---------------|------------------|----------------|----------------|
| FILTER    | Date      | Customer | Dealer | DHL Depot   | Route | Media type | Asset | Deadline  | Orders Create | ACTUAL FPOD   | On Time          | Exception Code | Exception Code |
| Summary   | 01-Dec    | ALL      | All    | All         | All   | All        |       |           | 11            |               | 75.35%           |                |                |
|           |           |          |        |             |       |            |       |           |               |               |                  |                |                |
| FILTER    | Date      | Customer | Dealer | DHL Depot   | Route | Media type | Asset | Deadline  | Orders Create | ACTUAL FPOD   | On Time          | Exception Code | Exception Code |
| Exception | 01-Dec    | SCANIA   | 8654   | Leeds       | H05   | ENG        |       | Pre-07:30 | 1             | 09:20         | N                | D              | Y              |
|           | 01-Dec    | SCANIA   | 8999   | Hams Hall   | H05   | LRC        |       | Pre-06:00 | 1             | 04:15         | N                | E              | N              |
|           | Sub total |          |        |             |       |            |       |           | 2             |               | 24.65%           |                |                |
|           |           |          |        |             |       |            |       |           |               |               |                  |                |                |
| FILTE     | Date      | Customer | Dealer | DHL Depot   | Route | Media type | Asset | Deadline  | Orders Create | ACTUAL FPOD   | On Time          | Exception Code | Exception Code |
|           | 01-Dec    | VOLVO    | 8123   | Cirencester | H01   | LRC        | 1234  | Pre-08:00 | 1             | 07:10         | Y                |                |                |
|           | 01-Dec    | BMW      | 8123   | Halewood    | H01   | SRC        | 4321  | Pre-08:00 | 1             | 02:12         | Y                |                |                |
|           | 01-Dec    | BMW      | 8123   | Leeds       | H01   | LSE        |       | Pre-08:00 | 1             | 04:23         | Y                |                |                |
|           | 01-Dec    | SCANIA   | 8654   | Leeds       | H05   | ENG        |       | Pre-07:30 | 1             | 09:20         | N                | D              | Y              |
|           | 01-Dec    | SCANIA   | 8999   | Hams Hall   | H05   | LRC        |       | Pre-06:00 | 1             | 04:15         | N                | E              | N              |
|           | 01-Dec    | SCANIA   | 8876   | Pineham     | H05   | LRC        |       | Pre-08:00 | 1             | 04:55         | Y                |                |                |
|           | 01-Dec    | SCANIA   | 8765   | Hatfield    | H07   | LSE        |       | Pre-08:00 | 1             | 03:00         | Y                |                |                |
|           | 01-Dec    | COLT     | 8666   | Avonmouth   | H07   | ENG        |       | Pre-06:00 | 1             | 04:22         | Y                |                |                |
|           | 01-Dec    | COLT     | 8543   | Bellshill   | H07   | LSE        |       | Pre-08:00 | 1             | 07:25         | Y                |                |                |
|           | 01-Dec    | COLT     | 8654   | Avonmouth   | H07   | LSE        |       | Pre-06:00 | 1             | 06:15         | Y                |                |                |
|           | 01-Dec    | ORID     | 8098   | Billingham  | H07   | LRC        |       | Pre-10:30 | 1             | 09:45         | Y                |                |                |

- note the %age values appear incorrect in this example but serve to describe the formatting of the output.

The report will allow selection of the following parameters;

- Date Range - required, filtering on planned delivery date
- Customer
- Dealer
- DHL Depot
- Route
- Media Type

The report will extract the information from the Order Item and Audit data for Microlise scans of delivery orders only and will display;

- The criteria used for selection
- A summary line with titles for each column
- A list of all exceptions encountered with titles for each column, with a total row
- The selected data with titles for each column

The data items shown will be as follows;



- Date - the date the return item was scanned delivered
- Customer - the customer code
- Dealer - the Dealership location ID
- Dealer Name
- DHL Depot - The Owning Depot Code
- Depot Name
- Route - the Route Code (if there is one)
- Media Type - the DU Type of the asset
- Asset or Item details, including:

o Asset or Item o Child Asset o Pallet ID o Item Weight o Item Volume

- Deadline - the CUTOFF held against the Dealership Location, formatted with ?Pre-? (see section 2.3.1.1 above for details)
- Orders Created (assuming 1)
- Actual FPOD - the final POD proof of delivery date and time
- On Time - N if the delivery was before the cut-off time, else Y
- Exception Code - the reason code captured for any exceptions
- Exception Code - Whether this reason code is designated Force Majeure (see section 2.3.1.4 above for details). This column will be headed Force Majeure

The summary section will show the following items, subtotalled at Date:

- Orders Created
- On Time (Percentage of total On Time versus the total orders)

The Exception section will show the following items summarised at Date, Customer, Dealer, DHL Depot and Route and Force Majeure, for each item with a reason code attached;

- Date
- Customer
- Dealer
- DHL Depot
- Route
- Media Type
- Deadline
- Drops
- Actual FPOD
- Percentage of On Time
- Force Majeure

A total row will summarise;

- Orders Created



- On Time (Percentage of total not On Time versus the total orders)

## 5.10 On Time Items (Assets)

The On Time Items (Assets) report is very similar to On Time Items, but shows each item asset ID for each of the drops, reporting to Item level. Drops are assumed to be delivery stops in the traffic plan for the trip.

|           | 01-Dec    | ALL      | All    | All         | All   | All        |       |           | Time and Date | Time and Date | Against Deadline | Exception Code | Force Majeure  |
|-----------|-----------|----------|--------|-------------|-------|------------|-------|-----------|---------------|---------------|------------------|----------------|----------------|
| FILTER    | Date      | Customer | Dealer | DHL Depot   | Route | Media type | Asset | Deadline  | Orders Create | ACTUAL FPOD   | On Time          | Exception Code | Exception Code |
| Summary   | 01-Dec    | ALL      | All    | All         | All   | All        |       |           | 11            |               | 75.35%           |                |                |
| FILTER    | Date      | Customer | Dealer | DHL Depot   | Route | Media type | Asset | Deadline  | Orders Create | ACTUAL FPOD   | On Time          | Exception Code | Exception Code |
| Exception | 01-Dec    | SCANIA   | B654   | Leeds       | H05   | ENG        |       | Pre-07:30 | 1             | 09:20         | N                | D              | Y              |
|           | 01-Dec    | SCANIA   | B999   | Hams Hall   | H05   | LRC        |       | Pre-06:00 | 1             | 04:15         | N                | E              | N              |
|           | Sub total |          |        |             |       |            |       |           | 2             |               | 24.65%           |                |                |
| FLTR      | Date      | Customer | Dealer | DHL Depot   | Route | Media type | Asset | Deadline  | Orders Create | ACTUAL FPOD   | On Time          | Exception Code | Exception Code |
|           | 01-Dec    | VOLVO    | B123   | Cirencester | H01   | LRC        | 1234  | Pre-08:00 | 1             | 07:10         | Y                |                |                |
|           | 01-Dec    | BMW      | B123   | Halewood    | H01   | SRC        | 4321  | Pre-08:00 | 1             | 02:12         | Y                |                |                |
|           | 01-Dec    | BMW      | B123   | Leeds       | H01   | LSE        |       | Pre-08:00 | 1             | 04:23         | Y                |                |                |
|           | 01-Dec    | SCANIA   | B654   | Leeds       | H05   | ENG        |       | Pre-07:30 | 1             | 09:20         | N                | D              | Y              |
|           | 01-Dec    | SCANIA   | B999   | Hams Hall   | H05   | LRC        |       | Pre-06:00 | 1             | 04:15         | N                | E              | N              |
|           | 01-Dec    | SCANIA   | B876   | Pineham     | H05   | LRC        |       | Pre-08:00 | 1             | 04:55         | Y                |                |                |
|           | 01-Dec    | SCANIA   | B765   | Hatfield    | H07   | LSE        |       | Pre-08:00 | 1             | 03:00         | Y                |                |                |
|           | 01-Dec    | COLT     | B666   | Avonmouth   | H07   | ENG        |       | Pre-06:00 | 1             | 04:22         | Y                |                |                |
|           | 01-Dec    | COLT     | B543   | Bellshill   | H07   | LSE        |       | Pre-08:00 | 1             | 07:25         | Y                |                |                |
|           | 01-Dec    | COLT     | B654   | Avonmouth   | H07   | LSE        |       | Pre-06:00 | 1             | 06:15         | Y                |                |                |
|           | 01-Dec    | ORID     | B098   | Billingham  | H07   | LRC        |       | Pre-10:30 | 1             | 09:45         | Y                |                |                |

- note the %age values appear incorrect in this example but serve to describe the formatting of the output.

The report will allow selection of the following parameters;

- Date Range - required, filtering on planned delivery date
- Customer
- Dealer
- DHL Depot
- Route
- Media Type

The report will extract the information from the Order Item and Audit data for Microlise scans of delivery orders only and will display;

- The criteria used for selection
- A summary line with titles for each column



- A list of all exceptions encountered with titles for each column, with a total row
- The selected data with titles for each column

The data items shown will be as follows;

- Date - the date the return item was scanned delivered
- Customer - the customer code
- Dealer - the Dealership location ID
- Dealer Name
- DHL Depot - The Owning Depot Code
- Depot Name
- Route - the Route Code (if there is one)
- Media Type - the DU Type of the asset
- Asset or Item details, including:

o Asset or Item o Pallet ID o Item Weight o Item Volume

- Deadline - the CUTOFF held against the Dealership Location, formatted with ?Pre-? (see section 2.3.1.1 above for details)
- Orders Created (assuming 1)
- Actual FPOD - the final POD proof of delivery date and time
- On Time - N if the delivery was before the cut-off time, else Y
- Exception Code - the reason code captured for any exceptions
- Exception Code - Whether this reason code is designated Force Majeure (see section 2.3.1.4 above for details). This column will be headed Force Majeure

The summary section will show the following items, subtalled at Date:

- Orders Created
- On Time (Percentage of total On Time versus the total orders)

The Exception section will show the following items summarised at Date, Customer, Dealer, DHL Depot and Route and Force Majeure, for each item with a reason code attached;

- Date
- Customer
- Dealer
- DHL Depot
- Route
- Media Type
- Deadline
- Drops
- Actual FPOD
- Percentage of On Time
- Force Majeure



A total row will summarise;

- Orders Created
- On Time (Percentage of total not On Time versus the total orders)

### 5.11 Outbound Shortage

This output shows orders with FPOD date and time captured and highlights exceptions where FPOD is missing, at an item level.

| FILTER     | Date   | Customer | Dealer | DHL Depot   | Route | Media type | Asset      | Deadline  | Order Create | FPOD | Variance |
|------------|--------|----------|--------|-------------|-------|------------|------------|-----------|--------------|------|----------|
| Summary    | 01-Dec | ALL      | All    | Halewood    | All   | All        |            |           | 11           | 9    | 2        |
| Exceptions | 01-Dec | SCANIA   | B999   | Halewood    | H05   | LRC        | 4455       |           | 1            | 0    | 1        |
|            | 01-Dec | COLT     | B654   | Halewood    | H07   | LSE        | DHL432234  |           | 1            | 0    | 1        |
| FILTER     | Date   | Customer | Dealer | DHL Depot   | Route | Media type | Asset      | Deadline  | Order Create | FPOD | Variance |
|            | 01-Dec | VOLVO    | B123   | Cirencester | H01   | LRC        | 1234       | Pre-08:00 | 1            | 1    | 0        |
|            | 01-Dec | BMW      | B123   | Halewood    | H01   | SRC        | 4321       | Pre-08:00 | 1            | 1    | 0        |
|            | 01-Dec | BMW      | B123   | Leeds       | H01   | LSE        | DHL987789  | Pre-08:00 | 1            | 1    | 0        |
|            | 01-Dec | SCANIA   | B654   | Leeds       | H05   | ENG        | L987654321 | Pre-07:30 | 1            | 1    | 0        |
|            | 01-Dec | SCANIA   | B999   | Hams Hall   | H05   | LRC        | 4455       | Pre-06:00 | 1            | 0    | 1        |
|            | 01-Dec | SCANIA   | B876   | Pineham     | H05   | LRC        | 5566       | Pre-08:00 | 1            | 1    | 0        |
|            | 01-Dec | SCANIA   | B765   | Hatfield    | H07   | LSE        | DHL998899  | Pre-08:00 | 1            | 1    | 0        |
|            | 01-Dec | COLT     | B666   | Avonmouth   | H07   | LRC        | 7788       | Pre-06:00 | 1            | 1    | 0        |
|            | 01-Dec | COLT     | B543   | Bellshill   | H07   | LRC        | 9988       | Pre-08:00 | 1            | 1    | 0        |
|            | 01-Dec | COLT     | B654   | Avonmouth   | H07   | LSE        | DHL432234  | Pre-06:00 | 1            | 0    | 1        |
|            | 01-Dec | ORIO     | B098   | Billingham  | H07   | LRC        | 6677       | Pre-10:30 | 1            | 1    | 0        |

The report will allow selection of the following parameters;

- Date Range - required, filtering on Planned Despatch date
- Customer
- Dealer
- DHL Depot
- Route
- Media Type



The report will extract the information from the Order Item and Audit data for WCS scans of loaded delivery orders only and will display;

- The criteria used for selection
- A summary line with titles for each column
- A list of all exceptions encountered with titles for each column
- The selected data with titles for each column

The data items shown will be as follows;

- Date - the date the return item was scanned loaded
- Customer - the customer code
- Dealer - the Dealership location ID
- Dealer Name
- DHL Depot - The Owning Depot Code
- Depot Name
- Route - the Route Code (if there is one)
- Media Type - the DU Type of the asset
- Asset or Item Reference details, consisting of:

o Asset ID o Pallet ID o Item Weight o Item Volume

- Deadline - the CUTOFF held against the Dealership Location, formatted with ?Pre-? (see section 2.3.1.1 above for details)
- Order Create (assuming 1)
- Actual FPOD - the final POD proof of delivery date and time
- Variance - 0 if the item was not loaded for the order, else 1

The summary section will show the following items, sub-totalled at Date and DHL Depot;

- Order Create
- FPOD
- Variance (against deadline)

The Exception section will show the following items in detail, for each item with a reason code attached;

- Date
- Customer
- Dealer
- DHL Depot
- Route
- Media Type
- Asset or Item
- Order Create
- FPOD



- Variance (qty)

## 5.12 Cross Dock

This report is intended to show a comparison of everything scanned in to and out of a cross-dock location, to help highlight items lost on the floor.

| FILTER    | 01-Dec | ALL      | All    | Halewood  | All   | All        | Asset      | Time and Date | Time and Date | Variance |
|-----------|--------|----------|--------|-----------|-------|------------|------------|---------------|---------------|----------|
| FILTER    | Date   | Customer | Dealer | DHL Depot | Route | Media type | Asset      | Scanned IN    | Scanned OUT   | Variance |
| Summary   | 01-Dec | ALL      | All    | Halewood  | All   | All        |            | 9             | 7             | 2        |
| FILTER    | Date   | Customer | Dealer | DHL Depot | Route | Media type | Asset      | Scanned IN    | Scanned OUT   | Variance |
| Exception | 01-Dec | SCANIA   | B999   | Halewood  | H05   | LRC        | 8888       | 1             | 0             | 1        |
|           | 01-Dec | COLT     | B654   | Halewood  | H07   | LSE        | DHL009998  | 1             | 0             | 1        |
| FILTER    | Date   | Customer | Dealer | DHL Depot | Route | Media type | Asset      | Scanned IN    | Scanned OUT   | Variance |
|           | 01-Dec | VOLVO    | B123   | Halewood  | H01   | LRC        | 1234       | 1             | 1             | 0        |
|           | 01-Dec | BMW      | B234   | Halewood  | H01   | SRC        | 4323       | 1             | 1             | 0        |
|           | 01-Dec | BMW      | B345   | Halewood  | H01   | LSE        | DHL345543  | 1             | 1             | 0        |
|           | 01-Dec | SCANIA   | B654   | Halewood  | H05   | ENG        | DHL987789  | 1             | 1             | 0        |
|           | 01-Dec | SCANIA   | B999   | Halewood  | H05   | LRC        | 8888       | 1             | 0             | 1        |
|           | 01-Dec | SCANIA   | B876   | Halewood  | H05   | LRC        | 5678       | 1             | 1             | 0        |
|           | 01-Dec | SCANIA   | B765   | Halewood  | H07   | LSE        | DHL776655  | 1             | 1             | 0        |
|           | 01-Dec | COLT     | B666   | Halewood  | H07   | ENG        | L987789987 | 1             | 1             | 0        |
|           | 01-Dec | COLT     | B543   | Halewood  | H07   | LSE        | L543345543 | 1             | 1             | 0        |
|           | 01-Dec | COLT     | B654   | Halewood  | H07   | LSE        | DHL009998  | 1             | 0             | 1        |
|           | 01-Dec | ORIO     | B098   | Halewood  | H07   | LRC        | 6543       | 1             | 1             | 0        |

The report will allow selection of the following parameters;

- Date and Time Range - required, filtering on scan date
- Customer
- Dealer
- DHL Depot
- Route
- Media Type

The report will extract the information from the Order Item and Audit data for WCS scans of loaded and unloaded delivery orders at out-bases only and will display;

- The criteria used for selection



- A summary line with titles for each column
- A list of all exceptions encountered with titles for each column
- The selected data with titles for each column

The data items shown will be as follows;

- Date - the date the return item was scanned
- Customer - the customer code
- Dealer - the Dealership location ID
- Dealer Name
- DHL Depot - The Owing Depot Code
- Depot Name
- Unload Route Code- the Unload Route Code (if there is one)
- Load Route Code- the Load Route Code (if there is one)
- Movement
- Media Type - the DU Type of the asset
- Asset or Item Reference details, consisting of:

o Asset ID o Pallet ID o Item Weight o Item Volume o Item Qty

- Scanned In - Whether the item was scanned in on the date
- Variance
- Scanned Out - whether the item was scanned out on the date
- Variance - 0 if the item was not loaded for the order, else 1

The summary section will show the following items, sub-totalled at Date and DHL Depot;

- Scanned In
- Scanned Out
- Variance (difference between scanned in and out)

The Exception section will show the following items in detail, for each item with a reason code attached;

- Date
- Customer
- Dealer
- DHL Depot
- Route
- Media Type
- Asset or Item
- Scanned In
- Scanned Out
- Variance (qty)



Note: This report will show variances where an item is scanned in and out at the out-base on different days.

### 5.13 Receipt Scanning

| FILTER    | 01-Dec | BMW      | All    | Pineham      | All   | All        |            | Time and Date  | Time and Date      |          |
|-----------|--------|----------|--------|--------------|-------|------------|------------|----------------|--------------------|----------|
| FILTER    | Date   | Customer | Dealer | ORIGIN Depot | Route | Media type | Asset      | Orders Created | Positive Load Scan | Variance |
| Summary   | 01-Dec | BMW      | All    | Pineham      | All   | All        |            | 11             | 9                  | 2        |
| Exception | 01-Dec | BMW      | B999   | Pineham      | P10   | LRC        | 2345       | 1              | 0                  | 1        |
|           | 01-Dec | BMW      | B654   | Pineham      | P07   | LSE        | DHL009998  | 1              | 0                  | 1        |
| FILTER    | Date   | Customer | Dealer | ORIGIN Depot | Route | Media type | Asset      | Orders Created | Positive Load Scan | Variance |
| All       | 01-Dec | BMW      | B123   | Pineham      | P10   | LRC        | 1234       | 1              | 1                  | 0        |
|           | 01-Dec | BMW      | B234   | Pineham      | P01   | SRC        | 3211       | 1              | 1                  | 0        |
|           | 01-Dec | BMW      | B345   | Pineham      | P04   | LSE        | DHL987655  | 1              | 1                  | 0        |
|           | 01-Dec | BMW      | B654   | Pineham      | P06   | ENG        | DHL987665  | 1              | 1                  | 0        |
|           | 01-Dec | BMW      | B999   | Pineham      | P10   | LRC        | 2345       | 1              | 0                  | 1        |
|           | 01-Dec | BMW      | B876   | Pineham      | P03   | LRC        | 5678       | 1              | 1                  | 0        |
|           | 01-Dec | BMW      | B765   | Pineham      | P07   | LSE        | DHL776655  | 1              | 1                  | 0        |
|           | 01-Dec | BMW      | B666   | Pineham      | P07   | ENG        | L987789987 | 1              | 1                  | 0        |
|           | 01-Dec | BMW      | B543   | Pineham      | P10   | LSE        | L543345543 | 1              | 1                  | 0        |
|           | 01-Dec | BMW      | B654   | Pineham      | P07   | LSE        | DHL009998  | 1              | 0                  | 1        |
|           | 01-Dec | BMW      | B098   | Pineham      | P10   | LRC        | 6543       | 1              | 1                  | 0        |

The report will allow selection of the following parameters;

- Date Range - required, filtering on scan date
- Customer
- Dealer
- DHL Depot
- Route
- Media Type

The report will extract the information from the Order Item and Audit data for WCS unloading scans of collection orders at DHL Depots only (not out-bases) and will display;

- The criteria used for selection



- A summary line with titles for each column
- A list of all exceptions encountered with titles for each column
- The selected data with titles for each column

The data items shown will be as follows;

- Date - the date the return item was scanned
- Customer - the customer code
- Dealer - the Dealership location ID
- Dealer Name - The dealership name
- Origin Depot - The Depot Code at which the order originated
- Depot Name - the origin depot name
- Route Code - the Route Code (if there is one)
- Media Type - the DU Type of the asset
- Asset or Item Reference details, containing

o Asset o Child Item o Pallet ID o Item Weight o Item Volume

- Items Created (assuming 1)
- Positive Load Scan - the load scan of the item at the origin depot
- Variance - 0 if the item was unloaded but not loaded for the order, else 1

The summary section will show the following items, sub-totalled at Date and Origin Depot;

- Items Created
- Positive Load Scan
- Variance

The Exception section will show the following items in detail, for each item with no positive load scan;

- Date
- Customer
- Dealer
- Origin Depot
- Route
- Media Type
- Asset or Item
- Orders Created
- Positive Load Scan
- Variance



## 5.14 Volume or Activity

This output shows the quantity and volumetric of items despatched from each originating depot.

|         | 01/12 thru 04/12 | All      | All    | Pineham      | All   | All        |          |            |     |
|---------|------------------|----------|--------|--------------|-------|------------|----------|------------|-----|
| FILTER  | Date             | Customer | Dealer | Owning Depot | Route | Media type | QUANTITY | Conversion | LCE |
| Summary | 01/12 thru 04/12 | All      | All    | Pineham      | All   | All        | 37       |            | 31  |
|         |                  |          |        |              |       |            |          |            |     |
|         |                  |          |        |              |       |            |          |            |     |
|         |                  |          |        |              |       |            |          |            |     |
| FILTER  | Date             | Customer | Dealer | Owning Depot | Route | Media type | QUANTITY | Conversion | LCE |
|         | 01-Dec           | BMW      | B123   | Pineham      | P10   | LRC        | 5        | 1          | 5   |
|         | 01-Dec           | BMW      | B123   | Pineham      | P10   | SRC        | 6        | 0.5        | 3   |
|         | 01-Dec           | BMW      | B123   | Pineham      | P10   | LSE        | 3        | 0.2        | 0.6 |
|         | 01-Dec           | BMW      | B123   | Pineham      | P10   | ENG        | 2        | 2          | 4   |
|         | 02-Dec           | BMW      | B123   | Pineham      | P10   | LRC        | 5        | 1          | 5   |
|         | 02-Dec           | BMW      | B123   | Pineham      | P10   | LRC        | 5        | 1          | 5   |
|         | 02-Dec           | BMW      | B123   | Pineham      | P10   | LSE        | 4        | 0.2        | 0.8 |
|         | 03-Dec           | BMW      | B123   | Pineham      | P10   | ENG        | 3        | 2          | 6   |
|         | 03-Dec           | BMW      | B123   | Pineham      | P10   | LSE        | 2        | 0.2        | 0.4 |
|         | 03-Dec           | BMW      | B123   | Pineham      | P10   | LSE        | 1        | 0.2        | 0.2 |
|         | 04-Dec           | BMW      | B123   | Pineham      | P10   | LRC        | 1        | 1          | 1   |

The report will allow selection of the following parameters;

- Date Range - required, filtering on Scheduled Despatch date
- Customer
- Dealer
- DHL Depot (Note: Although this is referred to as Owning depot, there is no functional difference between this and DHL depot)
- Route
- Media Type

The report will extract the information from the Order Detail data and will display;

The criteria used for selection



- A summary line with titles for each column
- The selected data with titles for each column

The data items shown will be as follows;

- Date - the date the return item was scanned
- Customer - the customer code
- Dealer - the Dealership location ID
- DHL Depot - The Owing Depot Code
- Route - the Route Code (if there is one)
- Media Type - the DU Type of the asset
- Quantity (despatched from the depot)
- Conversion - the RPE conversion factor of the media type
- LCE - total RPE for that line.

The summary section will show the following items, sub-totalled at Date and DHL Depot:

- Quantity
- LCE (total)

### 5.15 WCS Location Snapshot

The report itemises all successful scans as well as damages and errors.

| From No            | Coll Sched | Coll Trip | Coll Status | Coll Bay | Early Del        | To Loc   | TO Name                 | Del Sched | Del Trip | Del Status | Del Bay   | DU Typ | Item ID | Ords | Desp | Item L | Reason | Comments                       |
|--------------------|------------|-----------|-------------|----------|------------------|----------|-------------------------|-----------|----------|------------|-----------|--------|---------|------|------|--------|--------|--------------------------------|
| MORAN IMP-00007257 | 171101     | PLANNED   |             |          | 02/11/2017 03:35 | 50001238 | WISEMAN IMP-00007257    | 171101    | PLANNED  |            | CHEP Pv * |        | 1       | 1    | 1    | GRID   |        | Item was successfully added by |
| MORAN IMP-00007257 | 171101     | PLANNED   |             |          | 02/11/2017 03:35 | 50001238 | WISEMAN IMP-00007257    | 171101    | PLANNED  |            | CHEP Pv   |        | 142     | 1    | 1    | GRID   |        | Item was successfully added by |
| MORAN IMP-00007257 | 171101     | PLANNED   |             |          | 02/11/2017 03:35 | 50001238 | WISEMAN IMP-00007257    | 171101    | PLANNED  |            | CHEP Pv   |        | 145     | 1    | 1    | GRID   |        | Item was successfully added by |
| MORAN IMP-00007257 | 171101     | PLANNED   |             |          | 02/11/2017 03:35 | 50001238 | WISEMAN IMP-00007257    | 171101    | PLANNED  |            | CHEP Pv   |        | 146     | 1    | 1    | GRID   |        | Item was successfully added by |
| MORAN IMP-00007257 | 171101     | PLANNED   |             |          | 02/11/2017 03:35 | 50001238 | WISEMAN IMP-00007257    | 171101    | PLANNED  |            | CHEP Pv   |        | 853     | 1    | 1    | GRID   |        | Item was successfully added by |
| MORAN IMP-00007264 | 171101     | PLANNED   |             |          | 03/11/2017 09:14 | 50002374 | ALDI SKELF IMP-00007264 | 171101    | PLANNED  |            | CHEP Pv   |        | 144     | 1    | 1    | GRID   |        | Item was successfully added by |

The data items shown will be as follows;

- From Name
- Coll Sched
- Coll Trip
- Coll Bay
- Early Del
- To Loc
- To Name



- Del Sched
- Del Trip
- Del Status
- Del Bay
- DU Type
- Item ID
- Ordered
- Despatched
- Item Location
- Reason Code
- Reason Description

## 5.16 WCS Order Items Extract

The report shows all order items and unload con-conformances.

Report Started: 06/11/2017 14:26:19

WCS Order Items Start Date: 06/11/2017 Order: Customer: ARLA Depot: Trip:

| Order | Trip | Customer | External Ref | Product Type | DU Type     | Item ID | Item AKA | Item Desc | Item Fac | Qty Ordered | Qty To Deliver | Unload Non-conformance Reason | Unload Non-conformance 1 |
|-------|------|----------|--------------|--------------|-------------|---------|----------|-----------|----------|-------------|----------------|-------------------------------|--------------------------|
| 47754 | ARLA |          | 2059783257   | AMBIENT      | CHEP PALLET | *       |          |           |          | 1           | 1              |                               |                          |
| 47754 | ARLA |          | 2059783257   | AMBIENT      | CHEP PALLET | 342     |          |           |          | 1           | 1              |                               |                          |
| 47754 | ARLA |          | 2059783257   | AMBIENT      | CHEP PALLET | 345     |          |           |          | 1           | 1              |                               |                          |
| 47754 | ARLA |          | 2059783257   | AMBIENT      | CHEP PALLET | 346     |          |           |          | 1           | 1              |                               |                          |
| 47754 | ARLA |          | 2059783257   | AMBIENT      | CHEP PALLET | 853     |          |           |          | 1           | 1              |                               |                          |

The report will allow selection of the following parameters;

- Date Range - required, filtering on Scheduled Despatch date
- Customer
- Trip

The report will extract the information from the items data and will display;

- The date and time run
- The report name and criteria used for selection
- The selected data with titles for each column

The data items shown will be as follows;

- Order
- Trip
- Customer
- External Ref



- Product Type
- DU Type
- Item ID
- Item AKA
- Item Desc
- Item Factor
- Qty Ordered
- Qty to Deliver
- Unload Non-conformance Reason
- Unload Non-conformance



## 6 File Interfaces

- Orders Interface (CSV)
  - Trip/Orders Interface (XML)
  - Paragon Interface
  - C-ePOD Interface
  - FleXipod Interface
  - Customer Onboarding Interface
  - Tokairo DMS Interface
  - Logix Interface
  - WEBFLEET Interface
  - CALIDUS PORTAL TTM Interface
- 

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## 7 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.

### 7.1 Configuration

#### 7.1.1 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    |



| Parameter                   | Description  | Config By     |
|-----------------------------|--|---------------|
| 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        |
| <b>FLEXIPOD_SPLIT</b>       | <b>Are orders to be split?</b>   | <b>SYSTEM</b> |
| 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        |
| <b>FLEXIPOD_USERCODE</b>    | <b>Flexipod webservice usercode</b>  | <b>SYSTEM</b> |
| FLEXIPOD_USERNAME           | Flexipod webservice username   | SYSTEM        |
| <b>FLEXIPOD_WEBSERVICE</b>  | <b>Flexipod webservice endpoint URL</b>  | <b>SYSTEM</b> |
| 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

### 7.1.2 Carrier

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



Resource Maintenance  
RESOURCE v2.213  
C-TMS v11.39

Carriers Carrier Groups Carrier Lanes Carrier Types Carrier Service Level Service Types Fixed Charges Trailer Types Trailer Group Trailers Drivers Loc Prd Conv

**Edit Carrier**

Carrier ID: AD TRANSPORT Carrier Name: A & D TRANSPORT Alternate Name: Carrier Type: MTS CARRIER R/  
Current Haulage Units: Group Name: Hauliers Display Type: Freetext Tracking:  
Permit Debrief: Inactive: External Drivers: TMS Ref:

Address: Multiple Tariff: 3rd Party Labels Required:  
Town: Allow Palletisation: Air Waybill/Consignment Required:  
County: EPOD Enabled: Default Resource:  
Country: Auto Debrief Col: N Auto Debrief Del: N  
Postal Code: Send to ePOD Col: Y Send to ePOD Del: Y  
Country (ISO Code): Single Box tracking: OTM Enabled:  
Contact: Phone: 123456 Trips per day: Van Fleet:  
Fax: Email: Reporting Carrier: Flexipod:  
LogiNext Enabled:

Hub Location: Enforce Start at Hub: Barcode Type: Country of Registration: GB Great Britain &  
HQ Location: Enforce End at Hub: Export File type: GST Number:  
Enforce Start at Del:

Trip Threshold Hours: Stopover Threshold (Work Hrs): Driver Break Threshold (Hrs.):  
Standard Shift Hours: Stopover Threshold (Drive Hrs): Driver Break Duration (Mins.):  
Overtime Factor: Stopover Duration (Mins.): Max DU per Shipment:  
Work Break Threshold (Hrs.): Max Shift Hours: Payment Deadline:  
Work Break Duration (Mins.): Standard Factor: MPG:  
MU ID: SC Type:

Look Up... Save Cancel

### 7.1.3 Depot Locations

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



The screenshot shows the 'Locations' application window with the following details:

- Window Title:** Locations
- Version/Path:** LOCATION v2.219, C:TMS v11.39
- Navigation:** << < > >> ?\_ ? Ctr
- Location ID:** 018 (Active)
- Name:** LETCWORTH
- Postal Reg:** SG
- Planning Reg:** NVF
- Lat:** 51.98284
- Long:** -20695
- Time Zone:** (empty)
- Loading Rate:** DEPOT LOAD
- Unloading Rate:** DEPOT UNLOAD
- RDC:** (dropdown)
- Control Tower:** (checkbox)
- Mon-Thu:** (dropdown)
- Fri:** (dropdown)
- Account Profile:** (dropdown)
- Update:** (button)
- Route:** (input field)
- Tabs:** Address, Special (selected), Parameters, Slots, Paths, Constraints, Trailer Types, Contacts, Partnerships, Roles, Loc Matrix, DU Types, References, LOTS, EPOD, Linked
- Comments:** Always report to Security gate upon arrival
- Default SC Hanging:** (input field)
- Alternative Collection Loc:** (input field)
- Alternative Code:** (input field)
- Collecting Depot:** (input field)
- Tracking System:** (dropdown)
- Default Label Printer:** (input field)
- Default SC Boxed:** (input field)
- Alternative Delivery Loc:** (input field)
- Default Du Type:** (input field)
- Default Despatch Lane:** (input field)
- Parent Location:** (input field)
- Hub Location:** (input field)
- WCS item to Asset:** (checkbox)
- Master Location:** (checkbox)
- MIXMOVE:** (checkbox)
- Retain Planning Region:** (checkbox)
- Flexipod:** (checkbox)
- RF Cross-dock:** (checkbox)
- Early Stop Window:** (checkbox)
- Fixed Lat Longs:** (checkbox)
- Email Trip Manifest:** (checkbox)
- Exclusive Drop:** (checkbox)
- Allow DG Pallets:** (checkbox)
- Create Empties:** (checkbox)
- Delete:** (button)
- Buttons:** New Location, Save, Cancel, Close, Linked Maint

## 7.1.4 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

**7.1.5 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 |     |
| 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.



## 7.1.6 Attribute Configuration

Attributes against Manifests, Drops and Items can be configured by your Apteian 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                                   |        |



| Project Name | Level          | Number | Source  | Target |
|--------------|----------------|--------|---|--------|
| 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.

## 7.2 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

## 7.3 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.



## 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.



Access Groups

ACC CTRL v2.56  
C-TMS v12.45

| Group Name       | Description   | Enabled                             |
|------------------|---|-------------------------------------|
| ADMIN            | Administrator of CTMS                               | <input checked="" type="checkbox"/> |
| ALL              | everything enabled                                  | <input checked="" type="checkbox"/> |
| CO ORDINATORS    | TDL Specific Menus for office admin                 | <input checked="" type="checkbox"/> |
| CTL              | CTL Menus   | <input checked="" type="checkbox"/> |
| CTL USER         | CTL Users   | <input checked="" type="checkbox"/> |
| CUSTOMER_CHARGES | Administrators of Customer Fuel and Premium Charges | <input checked="" type="checkbox"/> |
| EDI IMPLEMENTOR  | EDI Administration - EDI_OWNER ONLY                 | <input checked="" type="checkbox"/> |
| EVERYTHING TEST  | Everything added                                    | <input checked="" type="checkbox"/> |

Functions   **Menus**   Tabs   Reports   Extracts   Imports

Menus Authorised for use by Group

| Imports | FILE_INTERFACES.IMPORTS   | In Menu ?                           |
|---------|---------------------------|-------------------------------------|
| Imports | MAINTENANCE.IMPORTS_MAINT | <input checked="" type="checkbox"/> |
|         |                           | <input type="checkbox"/>            |
|         |                           | <input type="checkbox"/>            |
|         |                           | <input type="checkbox"/>            |
|         |                           | <input type="checkbox"/>            |

Menus Available

| Box Status | MAINTENANCE.BOX_STATUS |
|------------|------------------------|
|            |                        |
|            |                        |
|            |                        |
|            |                        |

New   Copy   Delete   Save   Close   Add All   Remove All

- 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:



The screenshot displays the 'Access Groups' interface. At the top, there is a navigation bar with buttons for back, forward, search, and help. The main area contains a table with the following data:

| Group Name       | Description   | Enabled                             |
|------------------|---|-------------------------------------|
| ADMIN            | Administrator of CTMS                               | <input checked="" type="checkbox"/> |
| ALL              | everything enabled                                  | <input checked="" type="checkbox"/> |
| CO ORDINATORS    | TDL Specific Menus for office admin                 | <input checked="" type="checkbox"/> |
| CTL              | CTL Menus   | <input checked="" type="checkbox"/> |
| CTL USER         | CTL Users   | <input checked="" type="checkbox"/> |
| CUSTOMER_CHARGES | Administrators of Customer Fuel and Premium Charges | <input checked="" type="checkbox"/> |
| EDI IMPLEMENTOR  | EDI Administration - EDI_OWNER ONLY                 | <input checked="" type="checkbox"/> |
| EVERYTHING TEST  | Everything added                                    | <input checked="" type="checkbox"/> |

Below the table, there are tabs for 'Functions', 'Menus', 'Tabs', 'Reports', 'Extracts', and 'Imports'. The 'Imports' tab is active, showing two sections:

- Imports authorised for use by this Group:**
  - Carrier\_Drivers (highlighted)
  - Carriers
  - Contacts
  - Customer
  - Customer Locations
  - DEPOT LOCS
- Imports Available:**
  - ACC\_SERVICES (highlighted)
  - ASSET
  - CUST\_FLEET\_IMP
  - CUST\_VEHICLES
  - CUS\_DELIVERY\_ADDRESS
  - Contract

At the bottom of the interface, there are buttons for 'New', 'Copy', 'Delete', 'Save', 'Close', 'Add All', and 'Remove All'.

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.

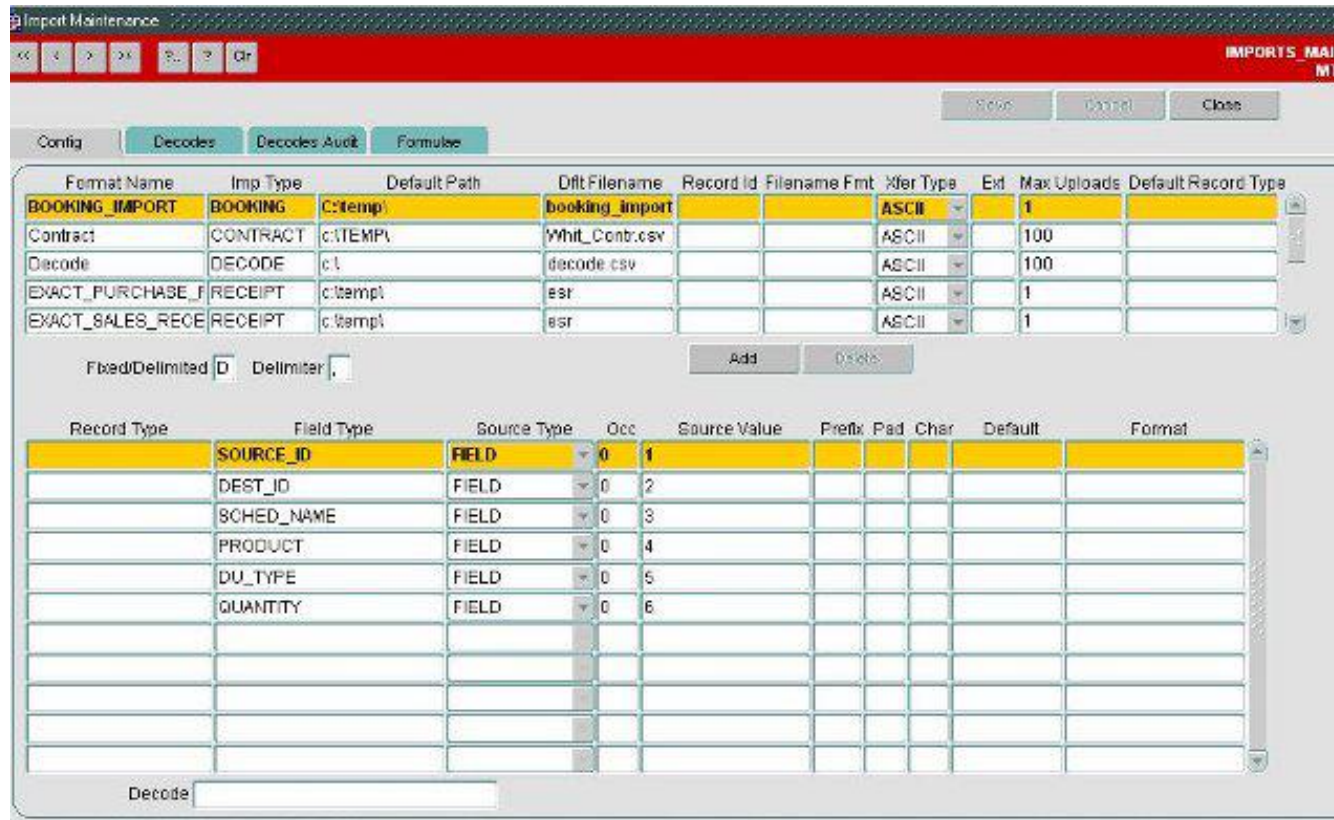
With regard to the Orders imports it is very important to prevent a file from being processed more than once. C-TMS will perform a check to ensure that the same file cannot be loaded twice, this is achieved using the checksum functionality on the server, if a user attempts to load a file that has already 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 many 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".

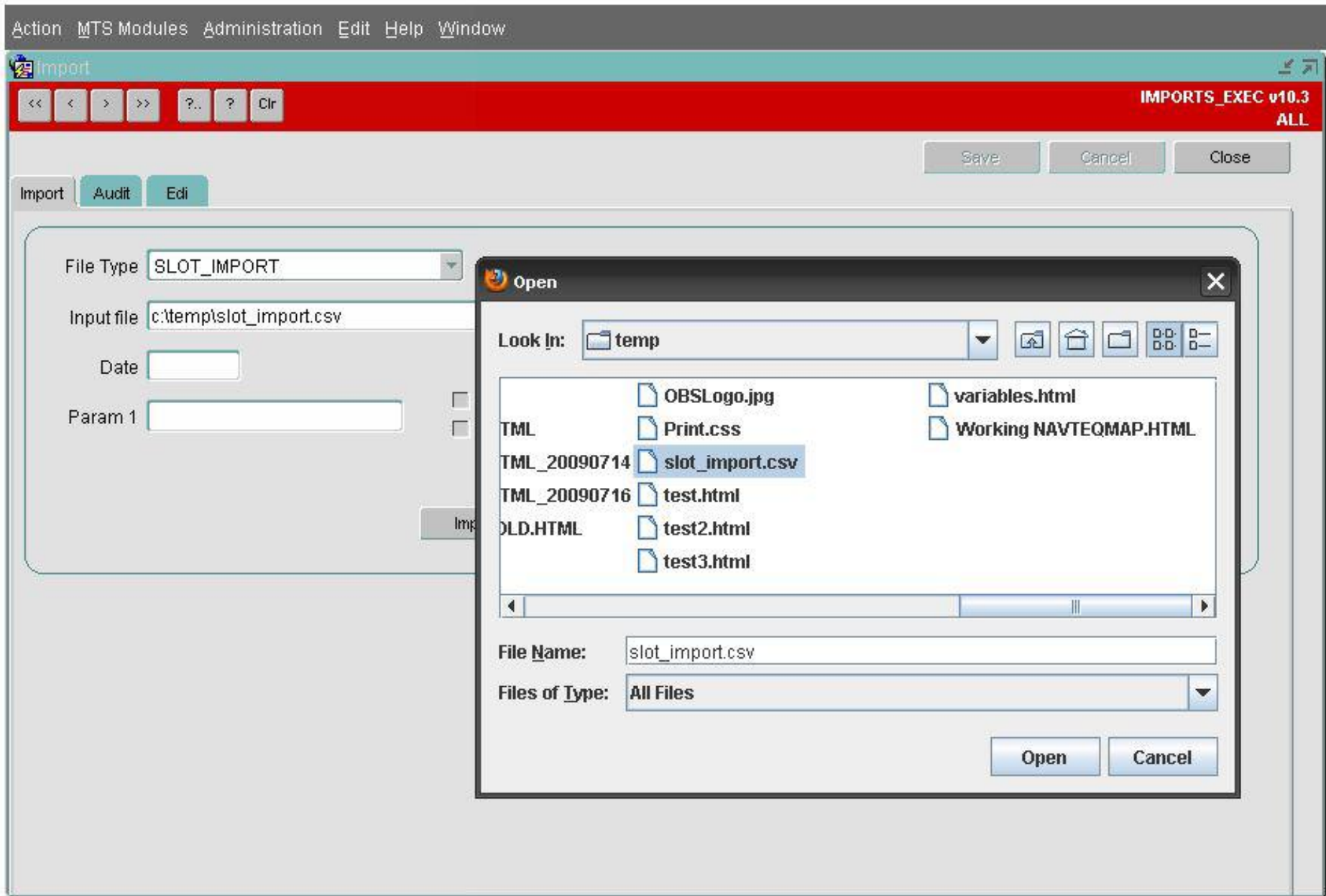
- DECODE

### 8.3.3 Execution

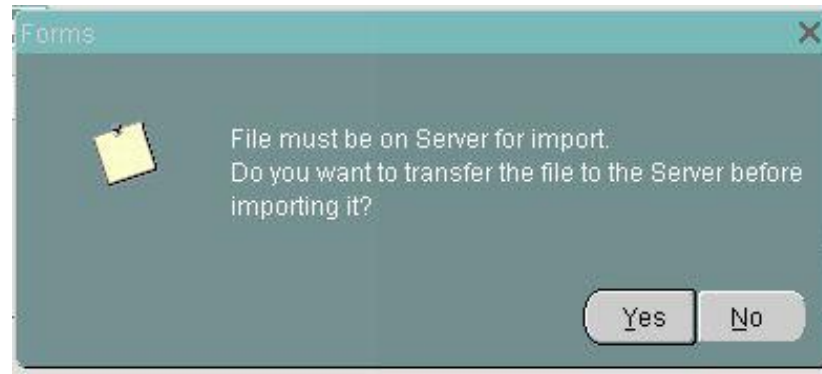
When an import is executed the file must be on the server, the system allows the user to upload the file onto the server if it is not already there.

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:

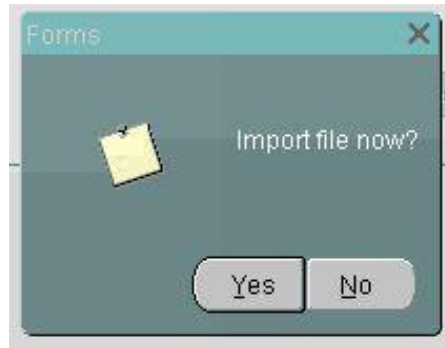




Once the file is found and selected you should click the **Open** Button. This will then prompt you to confirm you wish to upload the file onto the system's server:

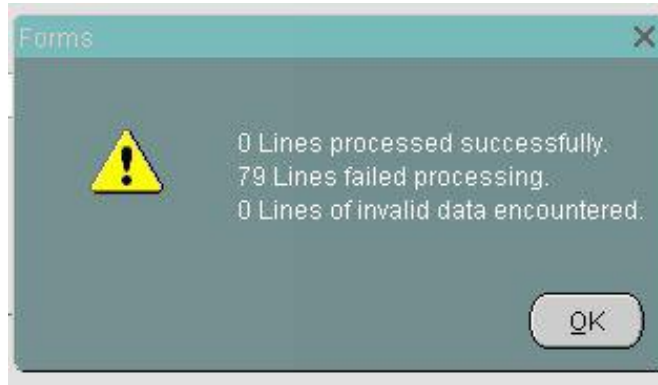


If you click on **Yes** the file will be uploaded onto the server, depending on the import file's size you may be presented with an hour glass whilst the upload occurs. When the upload is complete you will be asked if you wish to proceed with the import:

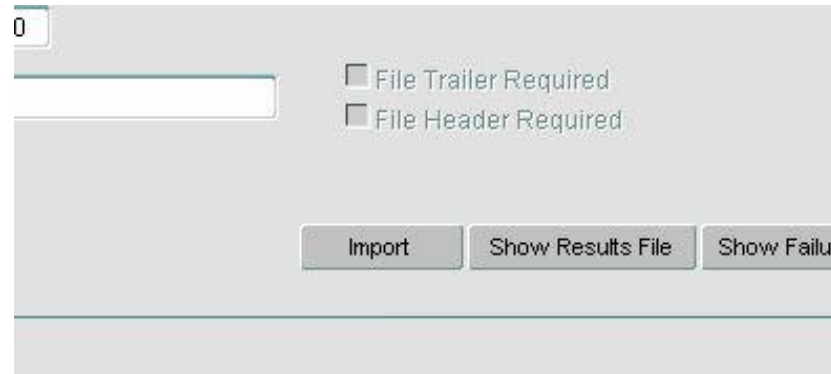


If you click **Yes** you will then be presented with a confirmation message advising what has happened during the import:





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:



```
_LOC ( $08102) does not exist in MTS.,  
_LOC ( $08102) does not exist in MTS.,  
_LOC ( $08102) does not exist in MTS.,  
_LOC ( $06473) does not exist in MTS.,  
_LOC ( $06473) does not exist in MTS.,  
_LOC ( $06473) does not exist in MTS.,  
_LOC ( $06473) does not exist in MTS.,  
_LOC ( $06473) does not exist in MTS.,  
_LOC ( $06473) does not exist in MTS.,  
_LOC ( $06473) does not exist in MTS.,  
_LOC ( $02257) does not exist in MTS.,  
_LOC ( $02257) does not exist in MTS.,
```



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 <b>Accounts</b> into C-TMS. This import allows for addition, modification or deletion of account data.                |
| ACC_SERVICES | This import allows users to upload <b>Services</b> into C-TMS. This import allows for addition and modification of additional services.                  |
| ACC_SRV_RTS  | This import allows users to upload <b>Account Service Requirements</b> 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 <b>Bookings</b> into C-TMS. This import allows 3 different types: BOOKING, BOOKINGS_ASN and BOOKINGS_MDD.             |
| CARRIER      | This import allows you to upload <b>Carriers</b> 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 <b>Contracts</b> into C-TMS   |
| CURR_USAGE   | This import allows users to upload <b>Account Currency Usage</b> records into C-TMS. This import allows for addition or deletion of currency usage data. |



| Import       | Description   |
|--------------|---|
| 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   |
| 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.  <b>Note:</b> 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  |



| Import       | Description  |
|--------------|--|
| 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 <b>Invoice Requirements</b> 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  |



| Import       | Description   |
|--------------|---|
| LOCATION     | This import allows users to upload <b>Locations</b> into C-TMS. This import allows addition ONLY of locations, constraints, contacts, references and trailer types.   |
| LOC_PRD_FACT | This import allows users to upload location product factors into C-TMS  |
| LOC_UPDATE   | This import allows users to upload updated <b>locations</b> into C-TMS. This import allows update ONLY of basic location address details.   |
| LOC_ZONES    | This import allows users to upload <b>Location Zones</b> into C-TMS   |
| MILK_ROUND   |   |
| ORD_LINE_ITM | This import allows users to upload <b>Orders</b> 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 <b>Drivers</b> 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 <b>Orders</b> from Portal.   |
| PROCESS_ITEM | This is a bespoke interface for Toyota items.   |



| Import       | Description   |
|--------------|---|
| PROC_ITM_FIX |   |
| PRODUCT      | This import allows users to upload <b>Product</b> 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 <b>Depot Shift Patterns</b> 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   |
| SLOT         | This import allows users to upload <b>Slot</b> 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.   |



| Import      | Description  |
|-------------|--|
| TI_ORDER    | This import allows users to upload <b>Orders</b> into C-TMS. Note that orders can only be added or deleted through this interface, not modified.   |
| TRACTOR     | This import allows users to upload <b>Tractors</b> 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 <b>Trailers</b> 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 <b>Vehicles</b> 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 |



| Parameter                     | Description   | Level       |
|-------------------------------|---|-------------|
| 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_IMPORT_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 | Country code for each cost centre imported on Carrier_Lane - INDUSTRIAL   | COST_CENTRE |
| 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      |



| Parameter                                      | Description  | Level  |
|--|--|--------|
| 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 |
| 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 Customer Onboarding Interface

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

### 9.1 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/orawsv/MTS_OWNER/DP_CTMS_IMPORT/IMPORT_CUSTOMER>
  <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>
```



```

    </RETURN>
  </IMPORT_CUSTOMEROutput>
</soap:Body>
</soap:Envelope>

```

## 9.2 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.

## 9.3 Content Format

Content is XML.



### 9.3.1 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 error this 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          |     | 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   |  |



| Field              | Size         | Default | Req | Notes  |
|--------------------|--------------|---------|-----|--|
| 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   |

## 9.4 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 <i>not</i> be overwritten by the default value parameter. |



| Field                   | Size          | Default   | Req | Notes  |
|-------------------------|---------------|-----------|-----|--|
| 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 <i>not</i> be overwritten by the default value parameter. |
| 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.

### 9.4.1 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.

### 9.4.2 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   |                                       |
| 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.

### 9.4.3 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.

## 9.5 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>
      <COUNTRY></COUNTRY>
      <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>
    <COUNTRY></COUNTRY>
    <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>

```

## 9.6 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.

## 9.7 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 RESULT 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) |



| RESULT attribute | STATUS tag | STATUS_MSG tag   |
|------------------|------------|--|
| ACK              | SUCCESS    | Location created.  |
| ACK              | SUCCESS    | Location updated.  |
| 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).            |



# 10 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.

## 10.1 Configuration

### 10.1.1 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    |



| Parameter                   | Description  | Config By     |
|-----------------------------|--|---------------|
| 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        |
| <b>FLEXIPOD_SPLIT</b>       | <b>Are orders to be split?</b>   | <b>SYSTEM</b> |
| 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        |
| <b>FLEXIPOD_USERCODE</b>    | <b>Flexipod webservice usercode</b>  | <b>SYSTEM</b> |
| FLEXIPOD_USERNAME           | Flexipod webservice username   | SYSTEM        |
| <b>FLEXIPOD_WEBSERVICE</b>  | <b>Flexipod webservice endpoint URL</b>  | <b>SYSTEM</b> |
| 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

### 10.1.2 Carrier

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



### 10.1.3 Depot Locations

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



The screenshot shows a software window titled 'Locations' with a version indicator 'LOCATION v2.219' and 'C:TMS v11.39'. The main form is for editing location details for 'LETCWORTH' (ID 018). The form includes fields for Name, Lat (51.98284), Long (-20695), Time Zone, Loading Rate (DEPOT LOAD), Unloading Rate (DEPOT UNLOAD), and various checkboxes and dropdowns for operational settings. A 'Comments' section contains the text 'Always report to Security gate upon arrival'. At the bottom, there are buttons for 'New Location', 'Save', 'Cancel', 'Close', and 'Linked Maint'.

Location ID: 018  
 Name: LETCWORTH  
 Lat: 51.98284  
 Long: -20695  
 Loading Rate: DEPOT LOAD  
 Unloading Rate: DEPOT UNLOAD  
 Comments: Always report to Security gate upon arrival  
 Buttons: New Location, Save, Cancel, Close, Linked Maint

### 10.1.4 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

**10.1.5 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 |     |
| 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.



## 10.1.6 Attribute Configuration

Attributes against Manifests, Drops and Items can be configured by your Apteian 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                                   |        |



| Project Name | Level          | Number | Source  | Target |
|--------------|----------------|--------|---|--------|
| 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.

## 10.2 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

## 10.3 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.

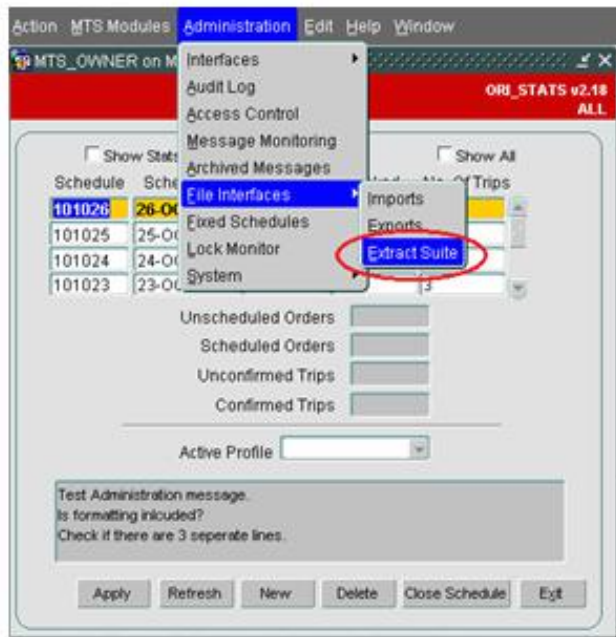


## 11 Data Extract Suite (ORS)

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.

### 11.1 Accessing the Extract Suite

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



### 11.2 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      |

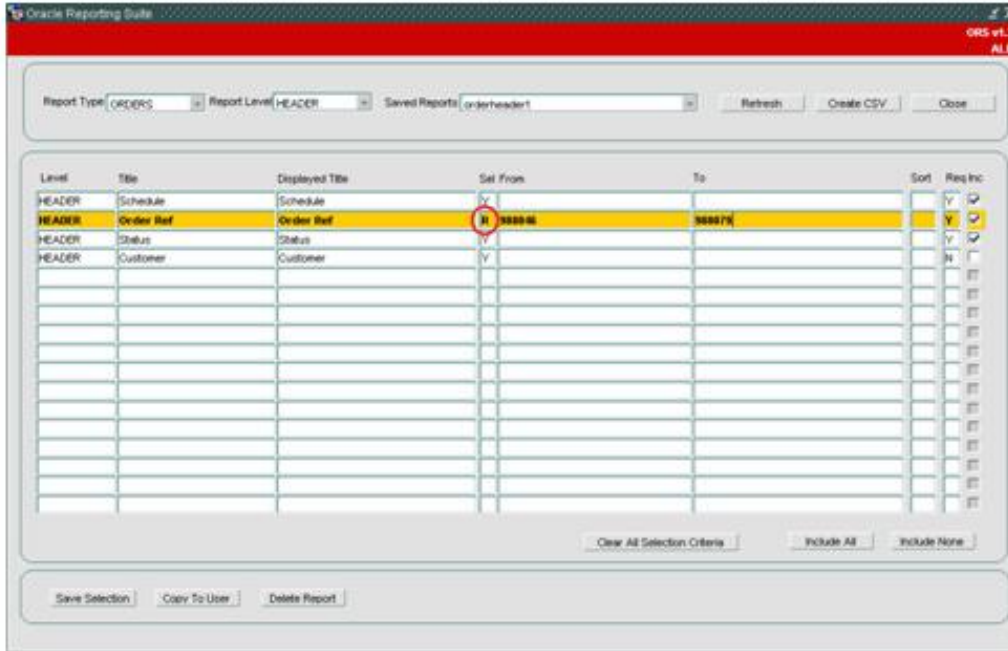
We will begin by selecting a Report Type of "Orders" and a Report Level of "Header" as shown below.



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

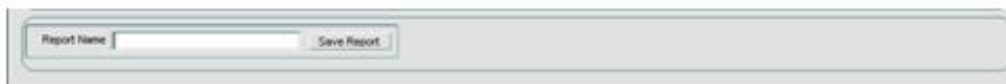




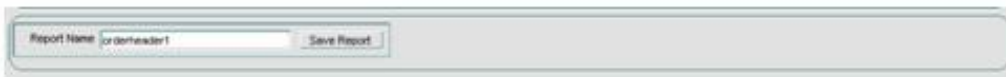


### 11.4 Saving the Report

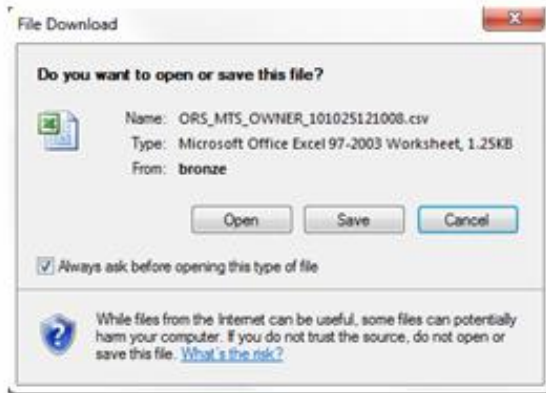
When the report restriction has been decided, the user is required to click on the "Save Selection" button at the bottom left of the screen. This would display a pop-up as shown below:



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







Once the "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.



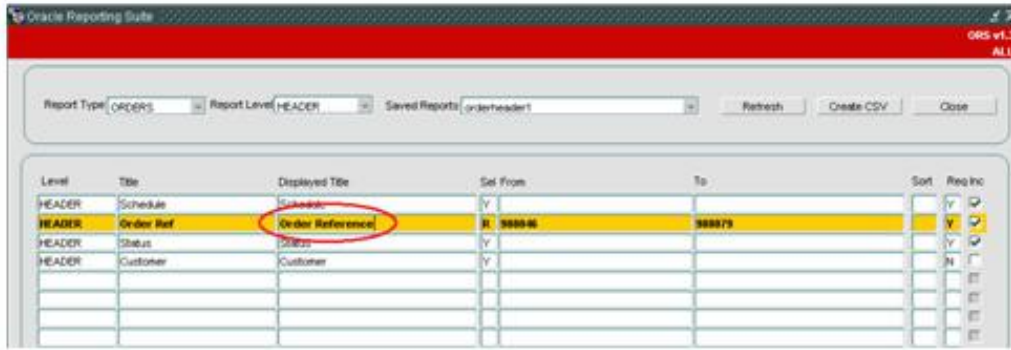
|    | A        | B         | C       | D |
|----|----------|-----------|---------|---|
| 1  | Schedule | Order Ref | Status  |   |
| 2  | 950612   | 988046    | INVALID |   |
| 3  | 950612   | 988047    | INVALID |   |
| 4  | 950612   | 988048    | INVALID |   |
| 5  | 950612   | 988049    | INVALID |   |
| 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.

## 11.6 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.

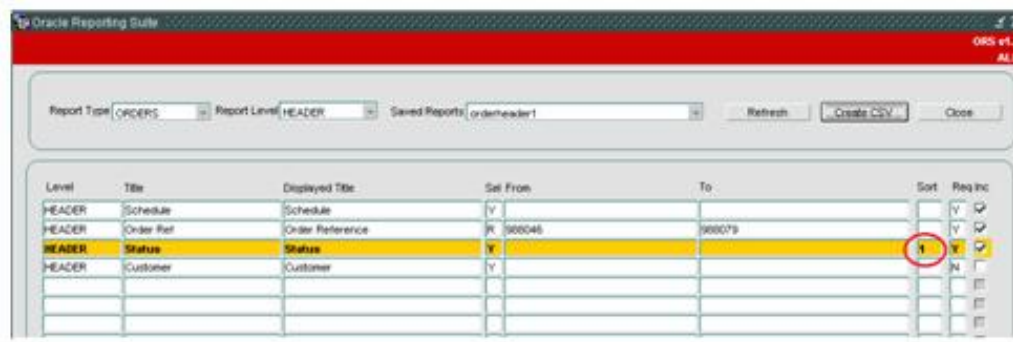
The screenshot shows an Excel spreadsheet with the following data:

|    | 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 |



## 11.7 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 |  |

## 11.8 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.





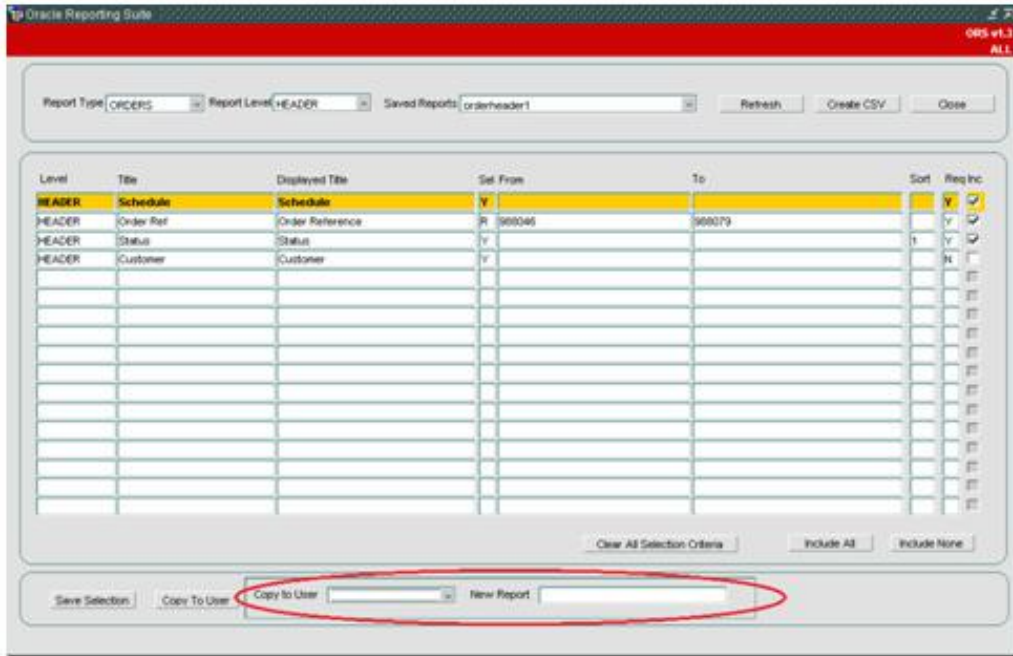
| ORS_MTS_OWNER_101025031031 [Read-Only] |          |                 |         |          |
|--|----------|-----------------|---------|----------|
|  | A        | B               | C       | D        |
| 1                                      | Schedule | Order Reference | Status  | Customer |
| 2                                      | 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.

## 11.9 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.



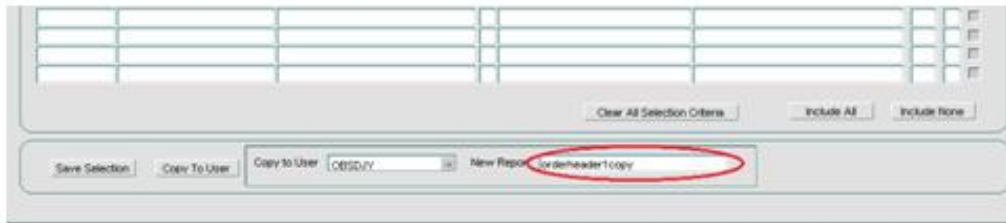


Selecting the user is done via a list displaying the users where the report can be copied to.



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).



### 11.10 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).

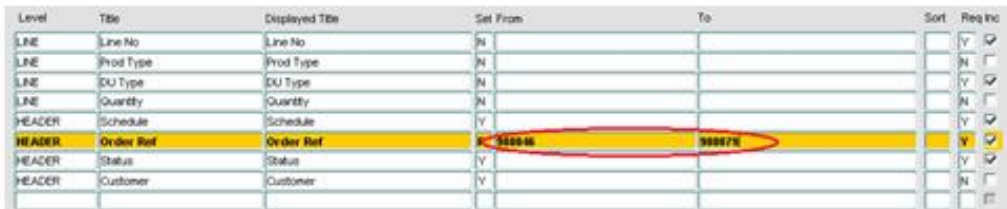


### 11.11 Creating an Order Line Report

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.



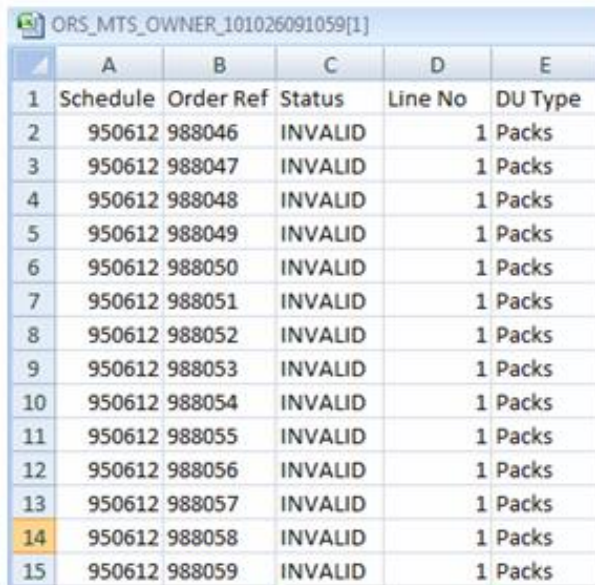
Again, we will enter some restrictions on the report (in the order reference field) to restrict the report. See below:



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.



|    | 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   |

## 11.12 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.

Report Name

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



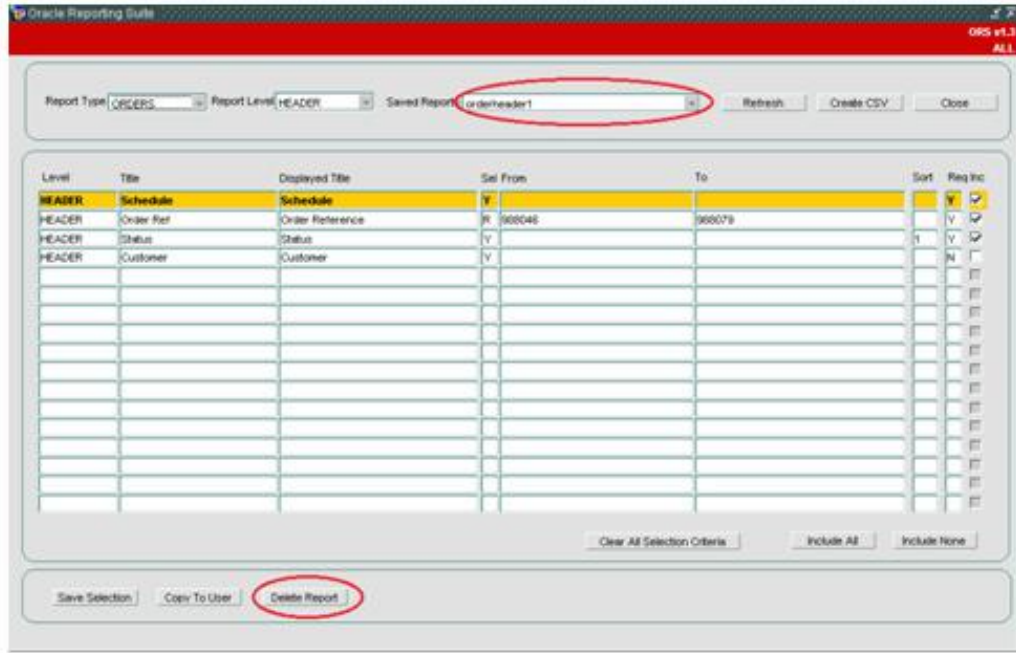
| ORS_MTS_OWNER_101026121037 [Read-Only] |          |           |         |         |         |         |
|--|----------|-----------|---------|---------|---------|---------|
|  | A        | B         | C       | D       | E       | F       |
| 1                                      | Schedule | Order 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 |         |

## 11.13 Deleting a Report

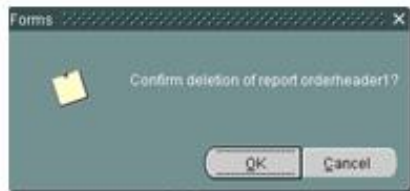
By firstly selecting a report (e.g. orderheader1) we can delete the report via the "Delete Report" button.

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



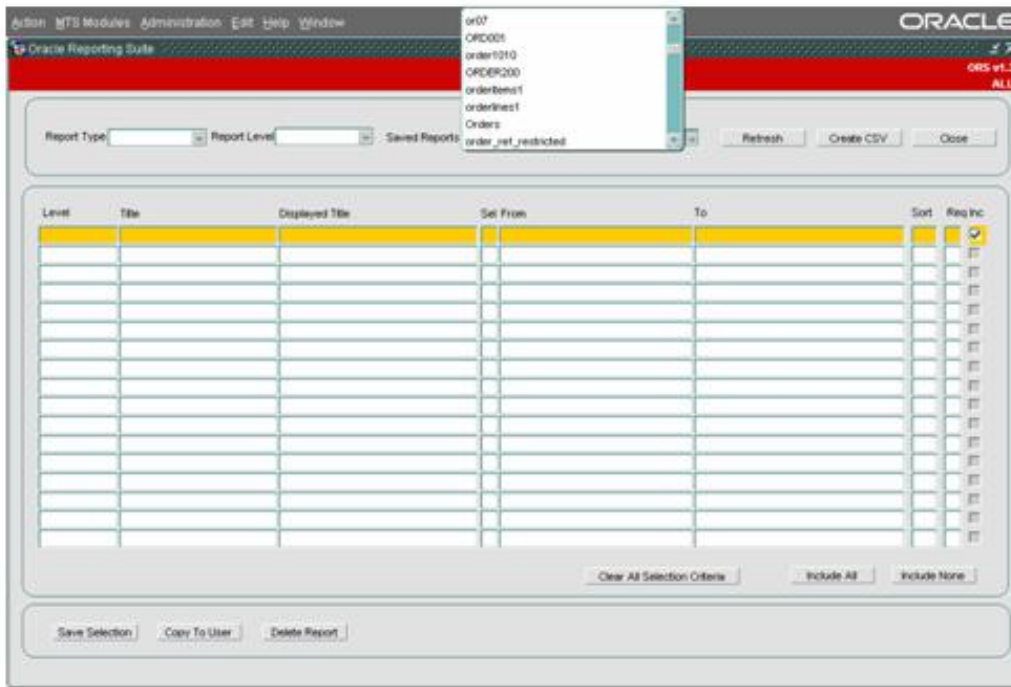


If the "OK" button is selected then the report will be deleted for the current user. If the report has been copied to another user before deletion then this report will still exist for that user after deletion. After the report has been deleted, we can see by trying to select the report via the "Saved 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.

## 11.14 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.



The screenshot shows the Oracle Reporting Suite interface. At the top, the title bar reads "Oracle Reporting Suite" and the version information "ORS v1.17" and "C-TMS v10.7.9" is displayed. Below the title bar, there is a control panel with a "Report Type" dropdown set to "SCHED\_ORDS", a "Report L" dropdown with a menu open, and a "Saved Reports" dropdown. The menu is open, showing options: TRIP\_DATA, STOPS\_DATA, ORDERS\_DATA, ORDER\_LINE\_DATA, and ORD\_ITEM\_DATA. Below the control panel is a table with columns: Level, Title, Displayed Title, Sel From, To, Sort, Req Inc, Count Sum, and Group By. The first row is highlighted in yellow and has checkboxes checked for Req Inc, Count Sum, and Group By. Below the table are buttons for "Clear All Selection Criteria", "Include All", and "Include None". At the bottom of the window are buttons for "Save Selection", "Copy To User", and "Delete Report".

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.



Oracle Reporting Suite ORS v1.17  
C-TMS v11.10

Report Type:  Report Level:  Saved Reports:

| Level            | Title               | Displayed Title     | Sel From | To | Sort     | Req      | Inc                                 | Count                               | Sum                      | Group By                            |
|------------------|---------------------|---------------------|----------|----|----------|----------|-------------------------------------|-------------------------------------|--------------------------|-------------------------------------|
| TRIP_DATA        | Trip ID             | Trip ID             | R        |    |          | N        | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| TRIP_DATA        | Schedule            | Schedule            | Y        |    |          | N        | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            |
| TRIP_DATA        | Trip Status         | Trip Status         | Y        |    | 1        | N        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| TRIP_DATA        | Transport Mode      | Transport Mode      | Y        |    |          | N        | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            |
| <b>TRIP_DATA</b> | <b>Owning Depot</b> | <b>Owning Depot</b> | <b>Y</b> |    | <b>2</b> | <b>N</b> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| TRIP_DATA        | Cost Centre         | Cost Centre         | Y        |    |          | N        | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            |
| TRIP_DATA        | Route Code          | Route Code          | Y        |    |          | N        | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            |
| TRIP_DATA        | Carrier Id          | Carrier Id          | Y        |    |          | N        | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            |
| TRIP_DATA        | Driver ID           | Driver ID           | Y        |    |          | N        | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            |
| TRIP_DATA        | Start Time          | Start Time          | Y        |    |          | N        | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            |
| TRIP_DATA        | End Time            | End Time            | Y        |    |          | N        | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            |
| TRIP_DATA        | Tractor Id          | Tractor Id          | Y        |    |          | N        | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            |
| TRIP_DATA        | Total Distance      | Total Distance      | Y        |    |          | N        | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            |
| TRIP_DATA        | Total Driver Hours  | Total Driver Hours  | Y        |    |          | N        | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            |
| TRIP_DATA        | Trip Cost           | Trip Cost           | Y        |    |          | N        | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            |
| TRIP_DATA        | Utilisation         | Utilisation         | Y        |    |          | N        | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            |
| TRIP_DATA        | Created date        | Created date        | R        |    |          | N        | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            |

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

### 11.15 Scheduling ORS Reports

Details of this can be found here: [EDI - Report/Extract Scheduling](#).

### 11.16 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 |



## 12 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     | CONDITIONS         | Adds Charge Conditions to the report  | Standing Data | Finance                 |
| CONTRACTS  | 7     | VEHICLE            | Adds Vehicle to the report  | Standing Data | Finance                 |



| Type       | Level | Name             | Description  | S/T           | Data Reported     |
|------------|-------|------------------|--|---------------|-------------------|
| 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              |
| 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        |



| Type       | Level | Name               | Description  | S/T           | Data Reported |
|------------|-------|--------------------|--|---------------|---------------|
| 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         |
| 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  |



| Type       | Level | Name              | Description   | S/T           | Data Reported |
|------------|-------|-------------------|---|---------------|---------------|
| 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          |
| 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         |



| Type       | Level | Name            | Description  | S/T           | Data Reported    |
|------------|-------|-----------------|--|---------------|------------------|
| 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             |
| TYRE_ORDS  | 4     | FINANCE         | Fleet Maintenance report   | Transactional | Finance          |



| Type       | Level | Name | Description                           | S/T           | Data Reported |
|------------|-------|------|---------------------------------------|---------------|---------------|
| VOLUMETRIC | 1     | DATA | Product vehicle volumetric data       | Standing Data | Product       |
| ZONE       | 1     | ZONE | Reports on Zones set up in the system | Standing Data | Geographical  |



## 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.



| Customer Name                        | Carrier ID | Carrier Name                     | Carrier ID | External Ref    | Booking Ref | Del Point ref | CMR Ref  | Delivery Location Name | Est @ Planned | Early Available      | Request Name | Request ID |
|--------------------------------------|------------|----------------------------------|------------|-----------------|-------------|---------------|--|------------------------|---------------|----------------------|--------------|------------|
| ACCANTIA LIMITED                     | ACCANTIA   | DHL                              | DHL        | TK348125_C3     | 42          |               | 028325 0308 MB OF NOTTINGHAM                     | 308 11/01/2018         | 11/01/2018    | Bearty_East          | EXLSBAAT     |            |
| Island Curtain Co                    | CLIB       | DHL                              | DHL        | TK348125_001    | 0461-348521 |               | 028325 Thrumston Stone in the GUNELM rd          | 390 11/01/2018         | 11/01/2018    | Bearty_East          | EXLSBAAT     |            |
| DUNELM LTD                           | LOVEL      |                                  |            | 301000005       | 1000061     | test          | 028027 FENTON DUNELM                             | 580 11/01/2010         | 11/01/2010    | Bearty_East          | EXLSBAAT     |            |
| ACCANTIA LIMITED                     | ACCANTIA   | United Freight Distribution      | UPS        | 568             | 43          | test          | 000028 Brimhead_Merseyside Ship_0452 MERSEBY     | 11/11/2009             | 11/11/2009    | Bearty_East          | EXLSBAAT     |            |
| ESCALO WMS                           | EXEL WMS   | Excel Bearty                     | EXLSBAAT   | 1081207         |             | 000296709     | 06423 Dewside_voland Dewside_CHO 2HWVCL2005      | 24/11/2005             | 24/11/2005    | Bearty_East          | EXLSBAAT     |            |
| KRAFT                                | KRAFT      | Toni Carter SS                   | EXLSBAAT   |                 |             |               | 1041 Raylax_Ramage Driv_30A11 PUL                | 11/01/2005             | 11/01/2005    | luffenw_New Conflict | EXLSLUFT     |            |
| KRAFT                                | KRAFT      | East Lutterworth - Kraft         | EXLSLUFT   |                 |             |               | 1048 Parkborough_Applis_3122 30A                 | 11/01/2005             | 11/01/2005    | luffenw_New Conflict | EXLSLUFT     |            |
| KRAFT                                | KRAFT      | East Lutterworth - Kraft         | EXLSLUFT   |                 |             |               | 1042 Wolverhampton_Baylis_30V4 6UD               | 11/01/2005             | 11/01/2005    | luffenw_New Conflict | EXLSLUFT     |            |
| KRAFT                                | KRAFT      | East Lutterworth - Kraft         | EXLSLUFT   |                 |             |               | 1044 Luffenw_New Conflict White_S41 FEXLSLUFT    | 11/01/2005             | 11/01/2005    | luffenw_New Conflict | EXLSLUFT     |            |
| KRAFT                                | KRAFT      | East Lutterworth - Kraft         | EXLSLUFT   |                 |             |               | 1040 Gidle_Baylis_0N34 5M2                       | 11/01/2005             | 11/01/2005    | luffenw_New Conflict | EXLSLUFT     |            |
| KRAFT                                | KRAFT      | East Lutterworth - Kraft         | EXLSLUFT   | 448017990       |             |               | 1047 Bradford_Mellroy Packaging_803 7 MAULBRAD   | 11/01/2005             | 11/01/2005    | luffenw_New Conflict | EXLSLUFT     |            |
| KRAFT                                | KRAFT      | East Lutterworth - Kraft         | EXLSLUFT   | 448017989       | 02886       |               | 1049 Coventry_P&M McName Ltd_CUS_KUC P&MCOVE     | 11/01/2005             | 11/01/2005    | luffenw_New Conflict | EXLSLUFT     |            |
| KRAFT                                | KRAFT      | East Lutterworth - Kraft         | EXLSLUFT   |                 |             |               | 1041 Loughton_Buzzard_Baylis_1177 396            | 11/01/2005             | 11/01/2005    | luffenw_New Conflict | EXLSLUFT     |            |
| KRAFT                                | KRAFT      | East Lutterworth - Kraft         | EXLSLUFT   | 801011171       |             |               | 1039 Warrington_Baylis_30M 601                   | 11/01/2005             | 11/01/2005    | luffenw_New Conflict | EXLSLUFT     |            |
| KRAFT                                | KRAFT      | SouthWest Refrigerated Transport | SWFTLOGS   | 448017850       |             |               | 1045 Brandon_P&M McName Ltd_8727 0A2 P&MBRAN     | 11/01/2005             | 11/01/2005    | luffenw_New Conflict | EXLSLUFT     |            |
| KRAFT                                | KRAFT      | East Lutterworth - Kraft         | EXLSLUFT   | 448017858       |             |               | 1050 Preston_James Hall & Co_Sou_P&E 8 JAMESPRE  | 11/01/2005             | 11/01/2005    | luffenw_New Conflict | EXLSLUFT     |            |
| KRAFT                                | KRAFT      | East Lutterworth - Kraft         | EXLSLUFT   |                 |             |               | 1048 Stockton_Safeway Stockton_T108 31 SAFETOC   | 11/01/2005             | 11/01/2005    | luffenw_New Conflict | EXLSLUFT     |            |
| KRAFT                                | KRAFT      | East Lutterworth - Kraft         | EXLSLUFT   |                 | 42          |               | 1046 Wallingborough_Booker C&C_N&B HOOKWELL      | 11/01/2005             | 11/01/2005    | luffenw_New Conflict | EXLSLUFT     |            |
| United Briscuits                     | UB         | East Farnham                     | EXLSBAAT   | 4201340         |             |               | 1061 Great Ys_G W Farnh & Sons_N411 0 G W GRGA   | 01/06/2005             | 01/06/2005    | Newton_East - United | EXSLNEW      |            |
| United Briscuits                     | UB         | East Farnham                     | EXLSBAAT   | 4201340         |             |               | 1050 Canterbury_East Kent Foods Co_C71 3 EASTCAN | 01/06/2005             | 01/06/2005    | Newton_East - United | EXSLNEW      |            |
| United Briscuits                     | UB         | East Farnham                     | EXLSBAAT   | 4201399         |             |               | 1060 Bury St_N41 Lightfoot Auth_3031 by N&S BURY | 01/06/2005             | 01/06/2005    | Newton_East - United | EXSLNEW      |            |
| United Briscuits                     | UB         | East Farnham                     | EXLSBAAT   | 4201394         |             |               | 1059 Walsall_3663 Forz For Foc_W&H 417           | 01/06/2005             | 01/06/2005    | Newton_East - United | EXSLNEW      |            |
| United Briscuits                     | UB         | Ken Abrams                       | ABRAMS     | 4201397         |             |               | 1029 London_M&B Food Precision_SWS 5 H&B LOND    | 01/06/2005             | 01/06/2005    | Newton_East - United | EXSLNEW      |            |
| United Briscuits                     | UB         | Ken Abrams                       | ABRAMS     | 4202009         |             |               | 1017 Oxford_M&B Edebridge_TNS 1A H&B EDEN        | 01/06/2005             | 01/06/2005    | Newton_East - United | EXSLNEW      |            |
| United Briscuits                     | UB         | Ken Abrams                       | ABRAMS     | 4202017         |             |               | 1040 Aylesford_Palmer&Kenney_M&E 7H PALMSOOD     | 01/06/2005             | 01/06/2005    | Newton_East - United | EXSLNEW      |            |
| United Briscuits                     | UB         | Hunt Bros Transport              | HUNT       | 4201343         |             |               | 1051 Ramham_Somerfield Ramham_M&J SCARHAM        | 01/06/2005             | 01/06/2005    | Newton_East - United | EXSLNEW      |            |
| United Briscuits                     | UB         | Hunt Bros Transport              | HUNT       | 4201389         |             |               | 1043 Hatfield_Booker 4186 ALD2 THE GARDENS       | 01/06/2005             | 01/06/2005    | Newton_East - United | EXSLNEW      |            |
| United Briscuits                     | UB         | NorthWest Hub                    | NWHUB      | 4201390         |             |               | 1031 Livingston_Booker C&C_040A 50A              | 01/06/2005             | 01/06/2005    | Newton_East - United | EXSLNEW      |            |
| United Briscuits                     | UB         | NorthWest Hub                    | NWHUB      | 4201391         |             |               | 1054 Newbridge_3663 Newbridge_3432 8 3663NEWB    | 01/06/2005             | 01/06/2005    | Newton_East - United | EXSLNEW      |            |
| United Briscuits                     | UB         | Deverux Transport                | DEVERUX    | 4201258         |             |               | 1052 Stockton_Mirvons_T1082N2                    | 01/06/2005             | 01/06/2005    | Newton_East - United | EXSLNEW      |            |
| GlasgowMachline                      | GOK        |                                  |            | C398126_C3      |             |               | 028642 OMS LONDON                                | 24/01/2018             | 01/06/2018    | DM_CHERWELL 1        | DMCHERI      |            |
| ACTAVIS-CD                           | ACD        | DHL CHERWELL                     | DMCHER     | TK348125_001_C3 |             |               | 028643 DHL Cherwell 1                            | 23/01/2018             | 01/06/2018    | DM_CHERWELL 1        | DMCHERI      |            |
| GlasgowMachline                      | GOK        | DHL LUTTERWORTH                  | EXLSLUFT   | C398126_C3      |             |               | 028640 DHL_CHERWELL 1                            | 24/01/2018             | 01/06/2018    | DM_CHERWELL 1        | DMCHERI      |            |
| GlasgowMachline                      | GOK        | ALB TRADING                      | ALBTPT     | C398126_C3      |             |               | 028661 ALDOR HET LIVERPOOL WARD 1                | 24/01/2018             | 01/06/2018    | DM_CHERWELL 1        | DMCHERI      |            |
| TRENCH PRODUCTS FOR HOME AND KITCHEN | TRENCH     | DHL CHERWELL                     | DMCHER     | TK31264709_C3   |             | 44            | 028644 DONASTIC ADDRESS 1                        | 18/06/2017             | 18/06/2017    | DM_CHERWELL 1        | DMCHERI      |            |
| TRENCH PRODUCTS FOR HOME AND KITCHEN | TRENCH     | DHL CHERWELL                     | DMCHER     | TK31264709_C3   |             |               | 028647 DONASTIC ADDRESS 1                        | 18/06/2017             | 18/06/2017    | DM_CHERWELL 1        | DMCHERI      |            |

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             |
| 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/xxxst/interface/TOK/OUT          |
|                       |   | Live :- /webint/xxxprd/interface/TOK/OUT         |
| Archive Folder        | Folder into which successful files are placed     | Test :-/webint/xxxst/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                                      |



| Parameter Name | Parameter Description | Value       |
|----------------|-----------------------|-------------|
|                |                       | 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  |

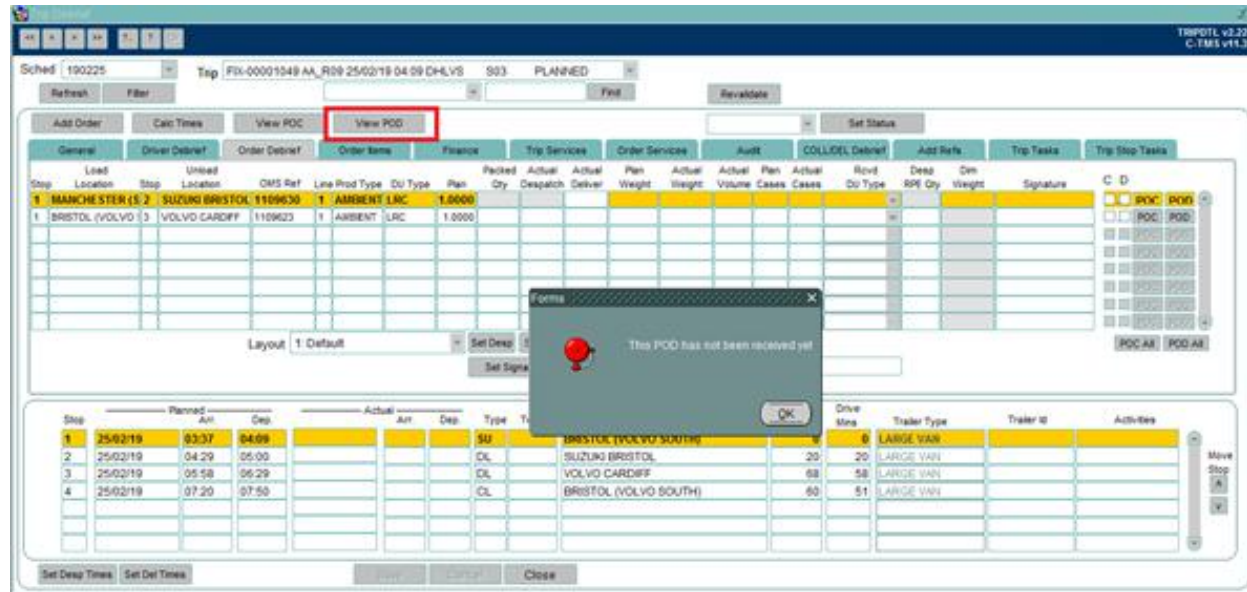
| Title       | Name   | Value             |
|-------------|--------|-------------------|
| Export Name | EXPORT | CSV.Tokairo_Daily |

## 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 | &name=CN-POD                      | Defines the Tokairo Customer Name.                            |
| TOK_CUSTOMERS        | SYSTEM | NONE | OPENFIELD                         | A comma-delimited list of customers to interface with Tokairo |
| TOK_FIELD            | SYSTEM | NONE | &fld=OMSID&srchRef=               | Defines the Tokairo field name.                               |
| TOK_OUTBOUND_ARCHIVE | SYSTEM | NONE | /webint/tms/devinterface/TOK/OUT/ | Filepath for Tokairo Daily Extract archive                    |
| TOK_OUTBOUND_PATH    | SYSTEM | NONE | /webint/tms/devinterface/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 |



| Parameter            | Description  | Level    |
|----------------------|--|----------|
| 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 Interfaces


- Imports
- Extracts
- Oracle Reporting Suite (ORS)
- ORS Reports List

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# 15 Logix Interface

 **Note:** Also known as the DPS or PTV Route Scheduling interface.

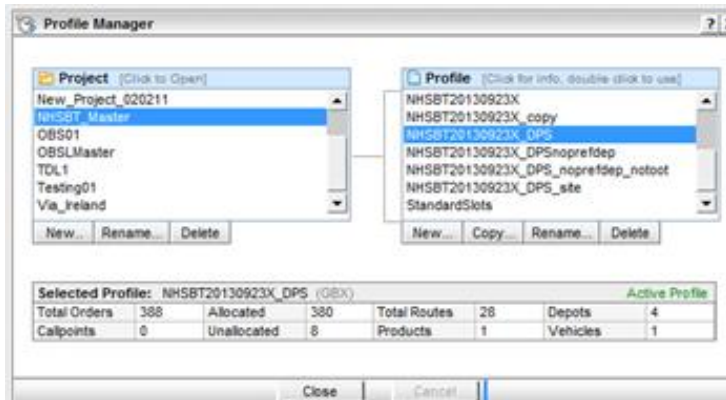
This document covers tactical trip planning requirement which is a version of LogiX installed on a cloud server and will automatically receive files and produce a corresponding outbound plan file.

## 15.1 Tactical Planning Solution

### 15.1.1 DPS Server Deployment

The DPS Logix Central application will be deployed as a server install in a partition alongside C-TMS.

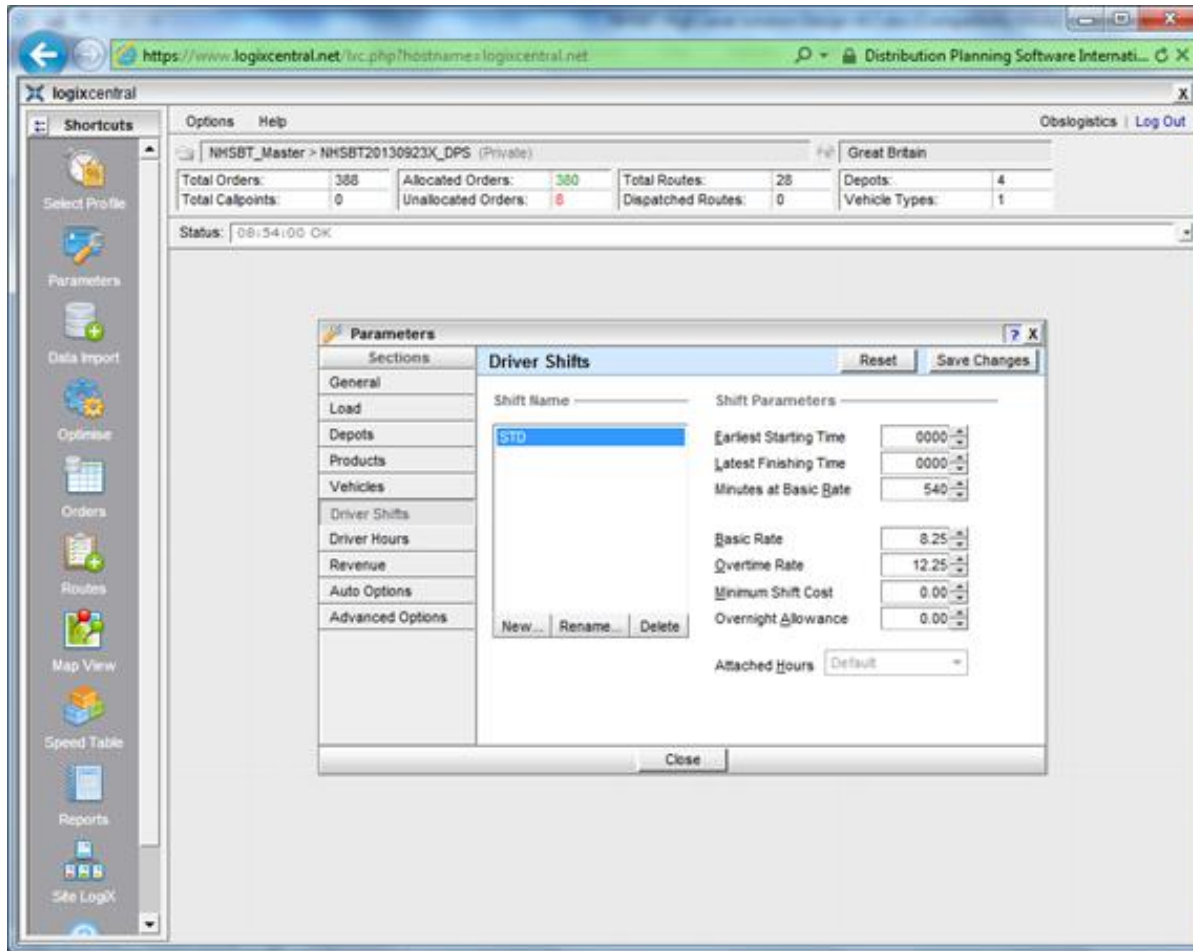
DPS Logix Central system provides a user interface to manage and maintain plan profiles.



As with the PC version, DPS requires that the data parameters and optimisation configurations are set up within each profile. A profile can represent a series of successive operational days, however, each profile will be used to plan a single day or transport order demand. Each depot will be planned separately in a DPS profile.

Very like the PC version used for strategic planning, DPS Logix Central requires the following parameters to be configured. This covers all the basic setup to allow transport orders to be planned and scheduled and includes general road speed variations for time of day, loading times, depots and depot locations, products, vehicle types (including fleet size), shifts and hours controls, revenue and cost values and auto and advanced options to control the planning behaviour.





Although the profiles can be accessed and managed through the user interface screens, and all the information can be viewed, including the transport orders and generated routes, and all the report outputs; the install will be considered a supporting engine for C-TMS. The interface between C-TMS and DPS Logix Central will be developed to be automated with manual overrides and means DPS Logix Central can be considered a 'black box' tightly integrated with the C-TMS order well and planning functions.

#### 15.1.1.1 DPS Integration

The C-TMS EDI maintenance screens will be used to configure automated jobs that will run at set frequencies to export data to create or update a DPS profile.



The example below illustrates the controlling parameters. A process will be setup to automatically export data for each depot on a set frequency interval, format an interface file for DPS and send to the DPS import folder

The processes setup will be further defined with parameters to control what data is exported to DPS.

The outbound file interface from C-TMS will be CSV format and three file formats will be generated for each interface covering;

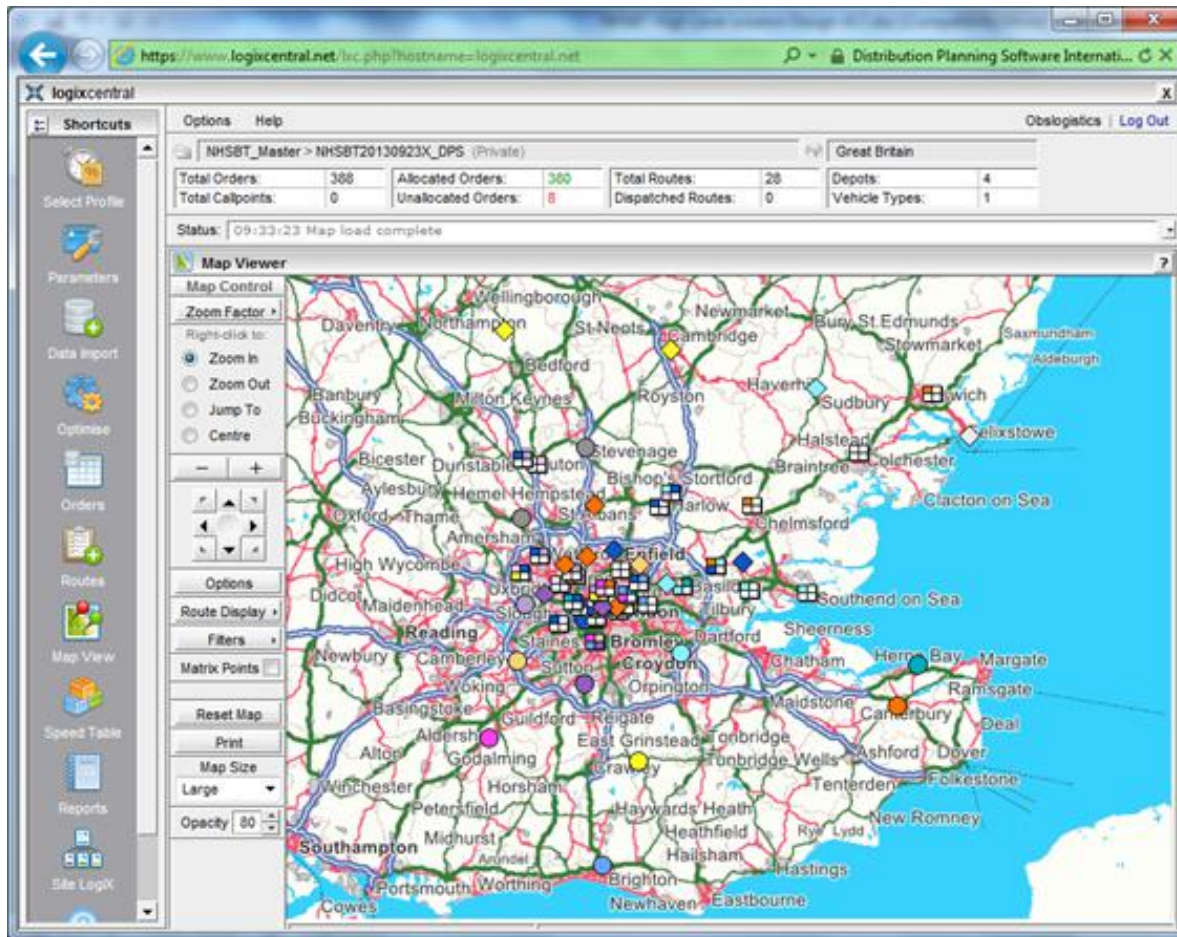
- Profile instructions & Parameters - to automatically create a profile or identify a profile to update; all the necessary basic master data for the profile including general road speed variations for time of day, loading times, depots and depot locations, products, vehicle types (including fleet size), shifts and hours controls, revenue and cost values and auto and advanced options to control the planning behaviour.
- Existing Routes and Allocated Orders - exporting the existing trips from C-TMS for the selected schedule day and synchronise them in the DPS profile.
- Additional unallocated orders - new orders captured in the C-TMS order well that require planning.

The instructions file will cause DPS to automatically read in and upload the data files, optimise the data and generate an output file of the new and modified routes.



An inbound EDI process will be created to constantly check for new updates from DPS and will automatically upload the information and synchronise the route trips, drop sequence, time schedule, orders allocated, breaks and wait times.

Note that C-TMS will always be considered the master controlling dataset. The profiles in DPS will be considered temporary / transient. The profiles will be retained for a number of days to allow planners to review the data, use the mapping tools to visualise the routes and take advantage of the reporting and outputs the DPS tool provides.



### 15.1.1.2 Forecast Plan Regular and Sessions

For each depot, a forecast plan will be generated automatically each evening starting 3 weeks ahead of the operational day using the C-TMS and DPS Logix integration.



This initial plan will comprise of the fixed route trips and will include the session collection work that transport is responsible for.

The forecast plan will be available for review and will provide an early view of the regular hospital re-supply and session work. There will be a planning assumption, for the forecast plan, that all the hospitals featuring in the fixed routes will eventually raise regular re-supply delivery requests and these will be allocated into the plan as they are interfaced from PULSE to C-TMS. The transport team will use the forecast plan to consider driver rosters, shifts and driver availability. The forecast plan will run each evening for the operational days rolling for the next 3 weeks and automatically plan any changes resulting from the session diary updates, changes to the fixed routes and actual transport order demand being received into C-TMS from PULSE, C-Portal or manually entered. The table below illustrates how the daily profiles for depot will be automatically managed by the interface and integration between C-TMS and DPS Logix Central.

For each depot, the forecast profiles (F) will be generated starting 21 days before an operational day (D) and the immediate past history (H) will be retained for 7 days.

| Depot     | ?. | H-3    | H-2    | H-1    | D-0    | F+1    | F+2    | F+3    | F+4    |
|-----------|----|--------|--------|--------|--------|--------|--------|--------|--------|
| CAMBRIDGE |    | 140604 | 140605 | 140607 | 140608 | 140609 | 140610 | 140611 | 140612 |
| COLINDALE |    | 140604 | 140605 | 140607 | 140608 | 140609 | 140610 | 140611 | 140612 |
| TOOTING   |    | 140604 | 140605 | 140607 | 140608 | 140609 | 140610 | 140611 | 140612 |

The profiles are the work areas for the planning functionality in DPS and they will be automatically named using the depot and schedule day in the format YYMMDD. The content of each of the profiles will always represent a schedule in C-TMS, and as mentioned above C-TMS will always be considered the master, and each of the DPS profiles will be considered to be a temporary work area.

The DPS Route viewer below illustrates how routes are organised showing totals in the header and the details of the sequence and timing of collection and delivery activity for the route.



| Seq | Order   | Name                  | Location                   | Day | Arrive | Duration | Miles | Tonne | Cube |
|-----|---------|-----------------------|----------------------------|-----|--------|----------|-------|-------|------|
| 1   |         | COLINDALE             | 2.4 kms S of Edgware       | Mon | 14:10  | 00:15    | 0.0   | 0.00  | 0    |
| 2   | C 8967C | NHSBT COLINDALE       | 1.5 miles S of Edgware     | Mon | 14:25  | 00:10    | 0.0   | 0.01  | 0    |
| 3   | D 8967D | Addenbrooke NHS Trust | 2.2 miles SSE of Cambridge | Mon | 15:59  | 00:10    | 61.1  | 0.01  | 0    |
| 4   |         | Waiting Time          |                            | Mon | 17:14  | 02:00    | 41.5  | 0.00  | 0    |
| 5   |         | Rest Break            |                            | Mon | 19:15  | 00:45    | 0.0   | 0.00  | 0    |
| 6   | C 9183C | Sharnbrook            | 7.1 miles NW of Bedford    | Mon | 20:00  | 00:15    | 0.0   | 0.05  | 1    |
| 7   | D 9183D | NHSBT COLINDALE       | 1.5 miles S of Edgware     | Mon | 21:44  | 00:10    | 58.1  | 0.05  | 1    |
| 8   |         | COLINDALE             | 2.4 kms S of Edgware       | Mon | 21:54  | 00:15    | 0.0   | 0.00  | 0    |

The integration between C-TMS and DPS will retain the synchronisation and the same details can be viewed in the C-TMS planning and execution control screens.

### 15.1.2 Functional Description

A nightly process will be automatically run in the C-TMS system which will generate the new profiles (per depot for the schedule 21 days in the future - including the master standing data).

It will then produce csv files (orders and trips) to be imported for the each schedule for the next 21 days including the newly created profile and then ftp them to the appropriate folder on the new LogiX server.

A command will then be issued from C-TMS to the server so that the LogiX software will then automatically import these files and produce a plan (it will configured to generate the UserOut export as part of creating the plan).

This file will then be picked up by C-TMS and used to create or update the trip plan in C-TMS to match the LogiX plan.



A manual run will also be available for a single depot and schedule (day zero only) which will send the orders and trips and wait for a new plan to be generated and imported back into C-TMS.

A manual run when resources are changed for all depots and schedules (up to 21 days in the future) to update resources and availability

#### 15.1.2.1 Setup and Control

The LogiX software will be setup to have folders (Profiles) created per Depot and Schedule (called <DEPOT>\_<SCHEDULE>).

NB) Folder names will contain both the depot and the schedule name.

A master profile (called <DEPOT>\_MASTER) must be created manually on the windows server for each depot with all of the appropriate configuration settings.

The PL.INI file for the master profile will be manually configured to produce the correct information in the UserOut file.

##### 15.1.2.1.1 Overnight Outbound Process

The overnight process will run for each depot and will be split into several sections :-

Create new profile for the new schedule (21 days into the future)

For the next 21 days schedules :-

- Send the orders and trips (including clear down of existing data)
- Run command to get LogiX to import the files and to Auto schedule
- Retrieve the updated UserOut.csv and Load new plan

The orders and trips file generation will be split into :-

- Delete existing orders and trips.
- Create orders file.
- Create trip file (not on fixed routes).
- Create dummy (placeholder) orders files (from fixed routes not trip) for any stops on existing fixed route trips with no real orders assigned.
- Create trip files (fixed routes trips).
- Instructions on how to run import files and produce plan (updates UserOut automatically).
- Import the new plan back into C-TMS.

##### 15.1.2.1.2 New Folder and Initial Files

Proposed folder structure on LogiX server will be down to depot and schedule level.

The folders will be created by the overnight process (called <DEPOT>\_<SCHEDULE>) for the new schedule (current day +21) for all of the active depots including copying all of the master profiles data (unique for each depot).



This will be achieved via a call to the windows server to copy (xcopy dos command so includes all files in the directory) the data from the master profile folder into the new folder.

#### 15.1.2.1.3 Orders (Type blank as now but represents A and T)

We will be sending the orders from C-TMS to LogiX as tramping pairs (Order Type ?B?) calling the file ORDERS.csv.

Sample of the existing LogiX order export (Collection and Delivery with order type ?B?) :-

| LogiX Field | C-TMS Field                    | Description                       |
|-------------|--------------------------------|-----------------------------------|
| TYPE        | Blank (Represents ?A? and ?T?) | Address and Task (order)          |
| ACTION      | ?A?                            | Add                               |
| CALLREF     | FROM_LOC or TO_LOC             | Collection or Delivery Location   |
| ORDERREF    | OMS_REF                        | Order Reference                   |
| ORDERTYPE   | ?B?                            | Both - Load and Unload pair       |
| CALLNAME    | LOCATION_NAME                  | To Location                       |
| ADDRESS_1   | ADDRESS_1                      | To Location                       |
| ADDRESS_2   | ADDRESS_2                      | To Location                       |
| ADDRESS_3   | ADDRESS_3                      | To Location                       |
| ADDRESS_4   | TOWN                           | To Location                       |
| ZIPCODE     | POSTCODE                       | To Location                       |
| CALLNAMEC   | LOCATION_NAME                  | From Location                     |
| ADDRESS_1C  | ADDRESS_1                      | From Location                     |
| ADDRESS_2C  | ADDRESS_2                      | From Location                     |
| ADDRESS_3C  | ADDRESS_3                      | From Location                     |
| ADDRESS_4C  | TOWN                           | From Location                     |
| ZIPCODEC    | POSTCODE                       | From Location                     |
| OPEN1       | EARLY_DEL                      | Early delivery time window        |
| CLOSE1      | LATE_DEL                       | Late delivery time window         |
| OPEN1C      | EARLY_AVAIL                    | Early collection time window      |
| CLOSE1C     | LATE_AVAIL                     | Late collection time window       |
| BOOKDAY     | Calculated                     | Day of week (collect or delivery) |
| FIXTIME     | Calculated                     | Time spent at loading stop        |
| WORKTIME    | Calculated                     | Loading time                      |
| FIXTIMEC    | Calculated                     | Time spent at unloading stop      |



|            |                    |                               |
|------------|--------------------|-------------------------------|
| WORKTIMEC  | Calculated         | Unloading time                |
| CUSTINFO1  | EXTERNAL_REF       | Customer order reference      |
| CUSTINFO2  | DELIVERY_TYPE_ID   | Delivery Type (Service Level) |
| CUSTINFO1C | EXTERNAL_REF       | Customer order reference      |
| CUSTINFO2C | DELIVERY_TYPE_ID   | Delivery Type (Service Level) |
| CUSTINFO3  | CONTACT_NAME       | Contact Name                  |
| PHONE      | PHONE              | Contact Phone number          |
| PREFDEP    | FROM_LOC or TO_LOC | Depot Code                    |
| PROD1      | SUM(SOL.QUANTITY)  |                               |
| PROD2      | SUM(SOL.QUANTITY)  |                               |
| PROD3      | SUM(SOL.QUANTITY)  |                               |
| PROD4      | SUM(SOL.QUANTITY)  |                               |
| PROD5      | SUM(SOL.QUANTITY)  |                               |
| PROD6      | SUM(SOL.QUANTITY)  |                               |
| PROD7      | SUM(SOL.QUANTITY)  |                               |
| PROD8      | SUM(SOL.QUANTITY)  |                               |
| PROD9      | SUM(SOL.QUANTITY)  |                               |
| PROD10     | SUM(SOL.QUANTITY)  |                               |
| PROD11     | SUM(SOL.QUANTITY)  |                               |
| PROD12     | SUM(SOL.QUANTITY)  |                               |
| PROD13     | SUM(SOL.QUANTITY)  |                               |
| PROD14     | SUM(SOL.QUANTITY)  |                               |
| PROD15     | SUM(SOL.QUANTITY)  |                               |
| PROD16     | SUM(SOL.QUANTITY)  |                               |

Uses the decodes for LOGIX\_DU\_TYPES to identify the DU\_TYPE and then totals the ordered quantity from the order lines that match this type.

This will contain all orders whether they are at status UNSCHEDULED or SCHEDULED.

**15.1.2.1.4 Trips (Type J and S not Fixed Routes)**

Trips will be sent to LogiX in a file called TRIPS.csv.

| <b>LogiX Field</b> | <b>C-TMS Field</b> | <b>Description</b>      |
|--------------------|--------------------|-------------------------|
| Type               | ?J?                | Schedule (Trip) Summary |
| Action             | ?A?                | Add.                    |
| RouteName          | ROUTE_CODE         | From trip.              |
| StartDepotName     | LOCATION_NAME      | Name for the SU Stop    |



FinishDepotName LOCATION\_NAME As Start  
 VehicleName TRAILER\_ID  
 Status Use for locking entire trip

To ensure that trips which are already in progress are not amended then they will be locked via Status column using 5 (Frozen).

| LogiX Field    | C-TMS Field | Description   |
|----------------|-------------|---|
| Type           | ?S?         | Schedule (Stop/SHA/Break) detail.   |
| Action         | ?A?         | Add.  |
| RouteName      | ROUTE_CODE  | Unique route.   |
| Sequence       | Count       | Add stop and SHA level. (stop * 10 + SHA seq ) ?  |
| CallType       | Calculated  | Separate record for SU and CL ? Breaks ? Load and Unload ?  |
| Reference      | OMS_REF     | Add ?C? and ?D? suffix?s.   |
| Order          | OMS_REF     | Add ?C? and ?D? suffix?s.   |
| ArriveDay      | Calculated  | Day of week from stop arrive time (actual if set ?).<br>NB) Actual arrive after planned departure ? |
| ArriveTimeSecs | Calculated  | As part of day.   |
| DepartDay      | Calculated  | Day of week from stop depart.   |
| DepartTimeSecs | Calculated  | As part of day.   |
| Status         | Calculated  | For locking data from update by when actual times already populated on the trip stop                |

**15.1.2.1.5 Dummy Orders and Fixed Route Trips**

Fixed route trips (prefix ?RTE-?) will have been created by the scheduling engine process as detailed in the fixed routes specification (FS - 317772 - NHSBT Fixed Routes).

Some orders may have been scheduled onto these trips (either by the scheduling engine itself or on a previous run of the LogiX software) but some of the stops on these trips will not have any orders assigned yet (empty stops).

Another trip file

Another order file needs to be sent for every empty stop to generate a dummy (placeholder) order within LogiX.

NB) These orders must be ignored when returned to C-TMS so must be easily identifiable (ORDERREF set to ?PLACE?<COUNT>).

Generate the dummy orders file and the fixed route trip files at the same time using the generated reference to write into both files.

Once these orders have been sent then in parallel the fixed routes trip can be sent.



### 15.1.2.2 Manual Outbound Order and Trips


On the actual day of execution of a plan for the current schedule then many changes (mainly last minute new orders) will be happening that will affect this plan so an option to manually update the plan (via LogiX) for this schedule and a single depot will need to be available.

This will be a button from the trip form.

This will be similar code as the overnight run for existing profiles (send orders and trips) but for a single depot (each user will be assigned to a single depot, based at ?) and a single schedule (the current schedule shown on the trip screen).

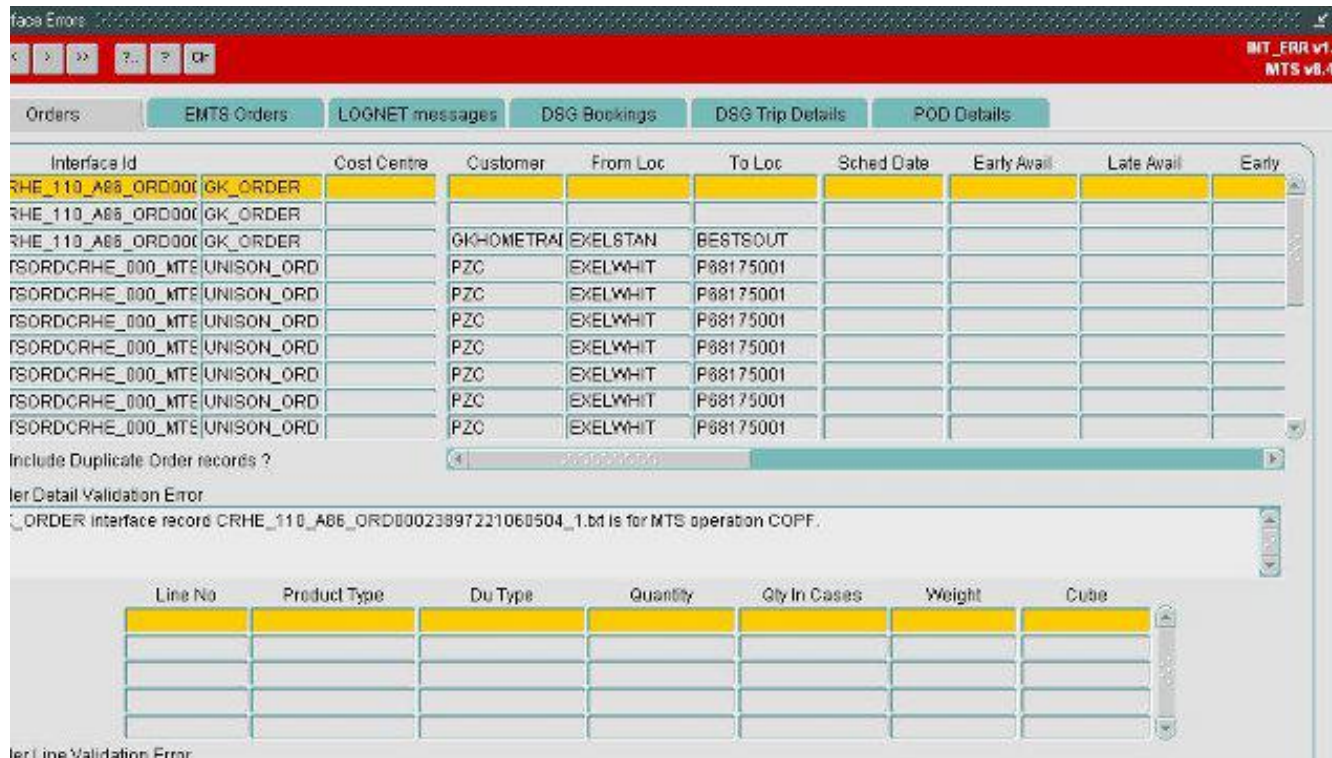


# 16 Orders Interface

 **Warning:** This is an incomplete guide.

An FTP process has been created to transfer Order information from a source system into C-TMS. The orders arrive in CSV files and are processed into C-TMS with errors being reported to a new C-TMS screen for manual administration by the users.

Interface Errors screen (a new tab will be added for each new interface).



The Interfacing team should provide the interface data, extracting the necessary order data from the source system, constructing it into a CSV format consisting of a record header, order header and order detail or details lines and forward it to C-TMS where its arrival triggers an upload process. Each file contains exactly one order and is validated for structure on arrival to the server before invoking the appropriate C-TMS operation (DB) to process it.



The interface is designed to be generic. C-TMS reads the header to determine the interface type before channelling it for processing. The CSV format is extracted into interface order header and interface order details tables. Errors during this upload halt processing and result in the error being written to the tables for viewing in the C-TMS Interface Errors screen. If successfully extracted, the order is validated for loading into the C-TMS orders tables. Errors are written to the interface table for viewing and the order is rolled back. Successes are committed to the orders tables and are available for normal C-TMS orders / trip processing etc.

The FTP interface is one way (from an external source to C-TMS). Errors displayed on the error screen are administered manually via contact between C-TMS and external systems and will either result in data changes or a resend of a corrected FTP file. The FTP file name is used as the interface identifier (int\_record\_id) enabling order records, interface table records and files to be traced back to their origins.

## 16.1 Tesla Orders Details

Tesla Orders EDI files can be managed through the Tesla Orders tab on the Interface Errors screen.



Interface Errors

INT\_ERR v1.120  
C-TMS v11.47

Bookings DSG Tr... POD De... LOTS XML Or... XML Tr... PO Inb... PO Out... XML Ou... Unsche... BMW Or... Order ... Tesla ...

Search  Include Success? Record Status: Successful Dealership: Case Id: Order Number: Delivery Date:

| FileName           | Stat... | Case Id | Dealer     | Del Date  | Order No   | Carton Type | Carton Code | OMS     | Created Date |
|--------------------|---------|---------|------------|-----------|------------|-------------|-------------|---------|--------------|
| 15579495182811900_ | S       |         | 3542590    | 12-AUG-25 | 1992940013 | Single Roll | SML         | 4467025 | 12-AUG-2025  |
| 15121574675639409_ | S       |         | 3000106145 | 11-AUG-25 | 1989480049 | Double Roll | LRG         | 4466604 | 11-AUG-2025  |
| 15121574675639409_ | S       |         | 3000106145 | 11-AUG-25 | 1989480049 | Double Roll | LRG         | 4466604 | 11-AUG-2025  |
| 15568234824529420_ | S       |         | 3000629091 | 11-AUG-25 | 1989500013 | Single Roll | SML         | 4466603 | 11-AUG-2025  |
| 15121574675639409_ | S       |         | 3000070989 | 11-AUG-25 | 1989460013 | Bulk Item   | INF         | 4466598 | 11-AUG-2025  |
| 15121574675639409_ | S       |         | 3000106144 | 11-AUG-25 | 1989470024 | Double Roll | INF         | 4466597 | 11-AUG-2025  |
| 15121574675639409_ | S       |         | 3000106144 | 11-AUG-25 | 1989470024 | Bulk Item   |             | 4466597 | 11-AUG-2025  |

Error Message

Re-Process

| Tesla Order Ref | Line Number  | Item Number | Item Qty | Hazardous Material |       |
|-----------------|--------------|-------------|----------|--------------------|-------|
| FO-200569288    | 1061353-00-G | 3           | 3        | 1                  | false |
| FO-181023774    | 1068130-01-B | 24          | 24       | 1                  | false |
| FO-188216419    | 1091472-00-B | 15          | 15       | 1                  | false |
| FO-213471678    | 1110298-00-D | 52          | 52       | 11                 | false |
| FO-165188940    | 1127502-11-D | 26          | 26       | 1                  | false |

Close Action

You can search using the header fields:

- Include Success - a checkbox - by default the screen only includes failures.
- All other criteria are drop-down lists:



- ◆ Record Status
- ◆ Dealership
- ◆ Case Id
- ◆ Order Number
- ◆ Delivery Date

The screen displays:

- Filename
- Status - S or F
- Case Id
- Dealer
- Del Date
- Order No
- Carton Type
- Carton Code
- OMS
- Created Date

You can sort the results by any of these columns.

Select a record on this results table and further information will be shown below:

- Error message - any associated errors whilst processing the file
- Pallet/Case Details:
  - ◆ Tesla Order Number
  - ◆ Line Number
  - ◆ Item Number
  - ◆ Item Qty
  - ◆ Hazardous Material - indicator whether the material is hazardous.

If the record is failed, you can reprocess it with the **Re-Process** button.

### 16.1.1 LogiNext Details

This tab shows the interface messages and details of any messages to LogiNext systems.



The screenshot shows the 'Interface Errors' application window. At the top, there are navigation buttons and version information: 'INT\_ERR v1.122' and 'C-TMS v11.39'. Below this is a menu bar with various options like 'PO CIC', 'Carrie...', 'XML Se...', etc. The main area features a search form with fields for 'Trip Id', 'Oms Ref', 'Event Type', 'Status', and 'Created Date', along with 'Search' and 'Reprocess' buttons. Below the search form is a table with the following data:

| Trip Id      | Oms Ref | Event Type | Status | Created Date     |
|--------------|---------|------------|--------|------------------|
| FIX-00026839 | 2051672 | P2P        | ACK    | 05/11/2024 14:02 |
| FIX-00026839 | 2051673 | P2P        | ACK    | 05/11/2024 14:02 |
| FIX-00026794 |         | TRP        | ACK    | 05/11/2024 13:52 |
| FIX-00026794 | 2051494 | P2P        | ACK    | 05/11/2024 13:52 |
| FIX-00026794 | 2051492 | P2P        | ACK    | 05/11/2024 13:52 |

Below the table are two panels: 'Request' and 'Response'. The 'Request' panel contains the following JSON data:

```
{
  "orderNo": "FIX-00026839 2051672"
  "shipmentOrderTypeCd": "DELIVER"
  "orderState": "FORWARD"
  "distributionCenter": "DHILVN"
  "packageWeight": "0"
  "packageVolume": "1.3"
  "serviceType": "Standard"
  "paymentType": "COD"
  "numberOfItems": "1"
  "partialDeliveryAllowedFI": "Y"
  "returnAllowedFI": "Y"
  "cancellationAllowedFI": "Y"
  "deliverServiceTime": "11"
}
```

At the bottom of the window are 'Close' and 'Action' buttons.

The screen will display the details of all records from the new LogiNext audit detail described above.

You can filter the search using the search criteria in the top of the tab page and clicking **Search**.



You can reprocess the currently highlighted record by pressing the **Reprocess** button, this will then invoke the reprocessing function

Only failed outbound messages will be available to be reprocessed and an error will be shown if any other type of record is selected for reprocessing.



**Note:** You will not be able to edit data in this screen any errors with trips should be rectified in the planning screen.

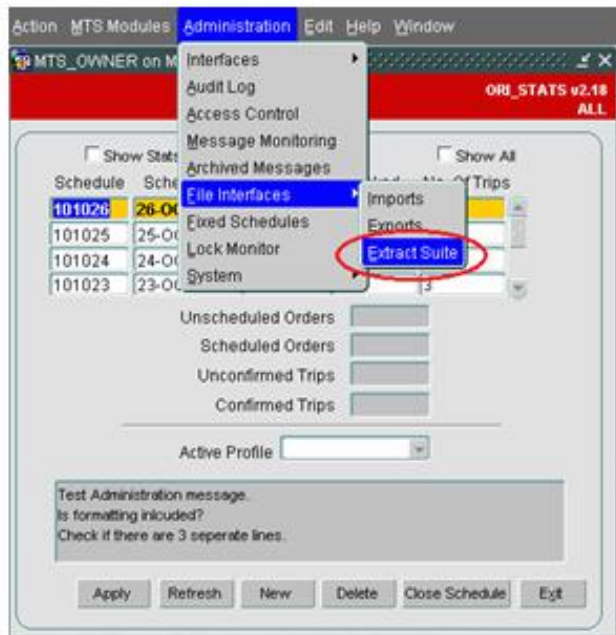


## 17 ORS

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.

### 17.1 Accessing the Extract Suite

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



### 17.2 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.

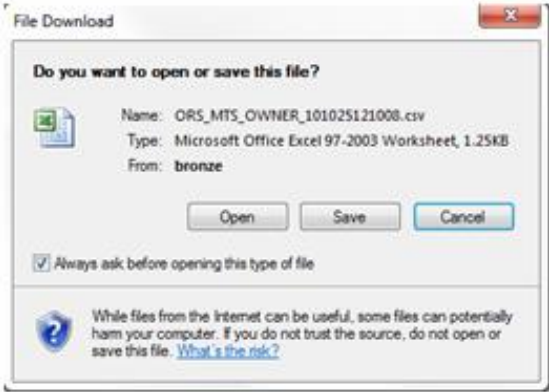
## 17.3 Restricting the Report

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).









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.



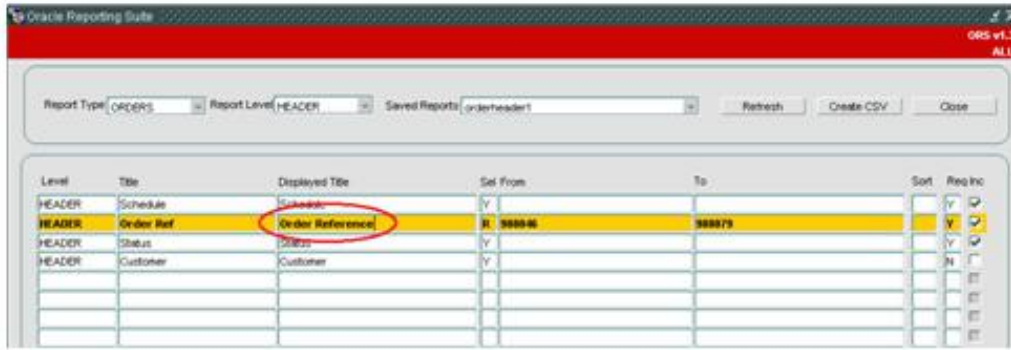
|    | A        | B         | C       | D |
|----|----------|-----------|---------|---|
| 1  | Schedule | Order Ref | Status  |   |
| 2  | 950612   | 988046    | INVALID |   |
| 3  | 950612   | 988047    | INVALID |   |
| 4  | 950612   | 988048    | INVALID |   |
| 5  | 950612   | 988049    | INVALID |   |
| 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.

## 17.6 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".





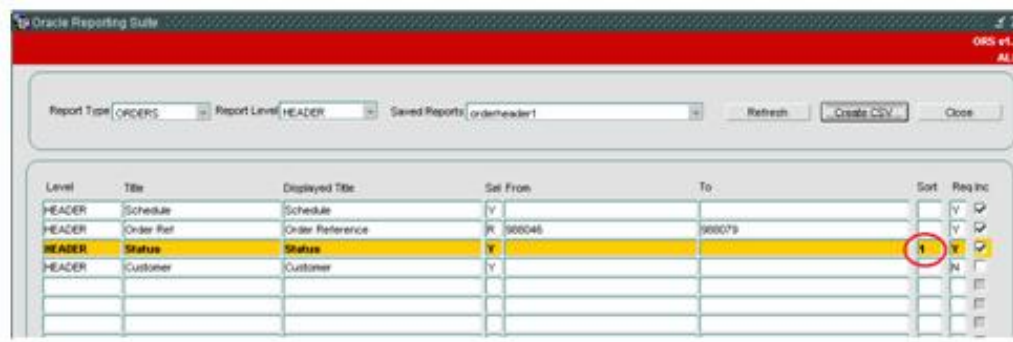
Having amended the Displayed Title, by clicking the "Create CSV" button, we can now see the amended column heading in the .csv Excel extract file.

|    | 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 |



## 17.7 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.



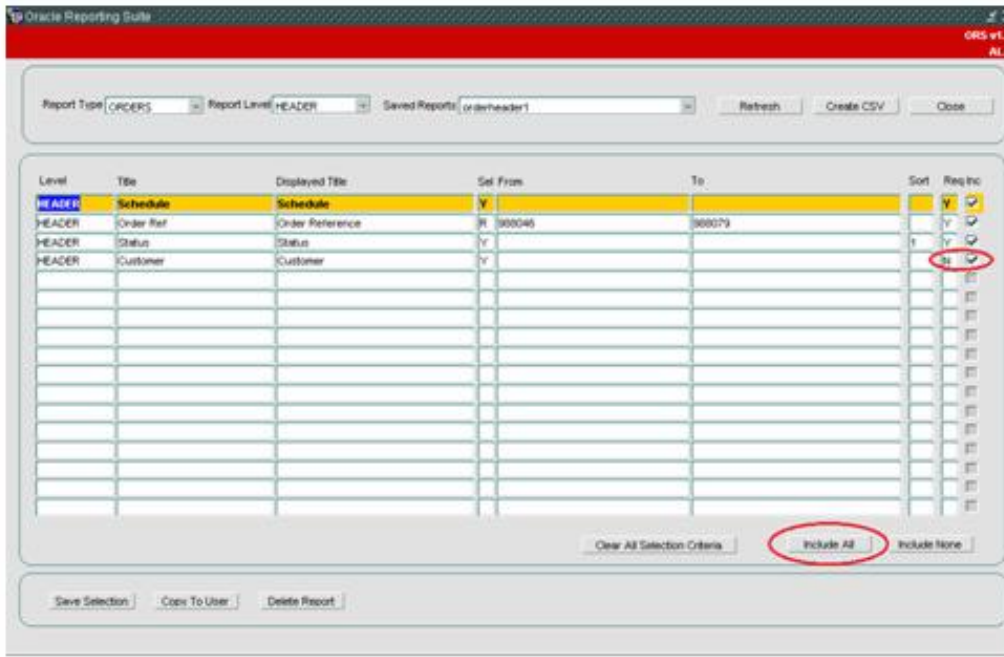
As can now be seen, the Status column is now sorted alphabetically in the .csv Excel extract file.

|    |        |        |           |  |
|----|--------|--------|-----------|--|
| 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 |  |

## 17.8 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.



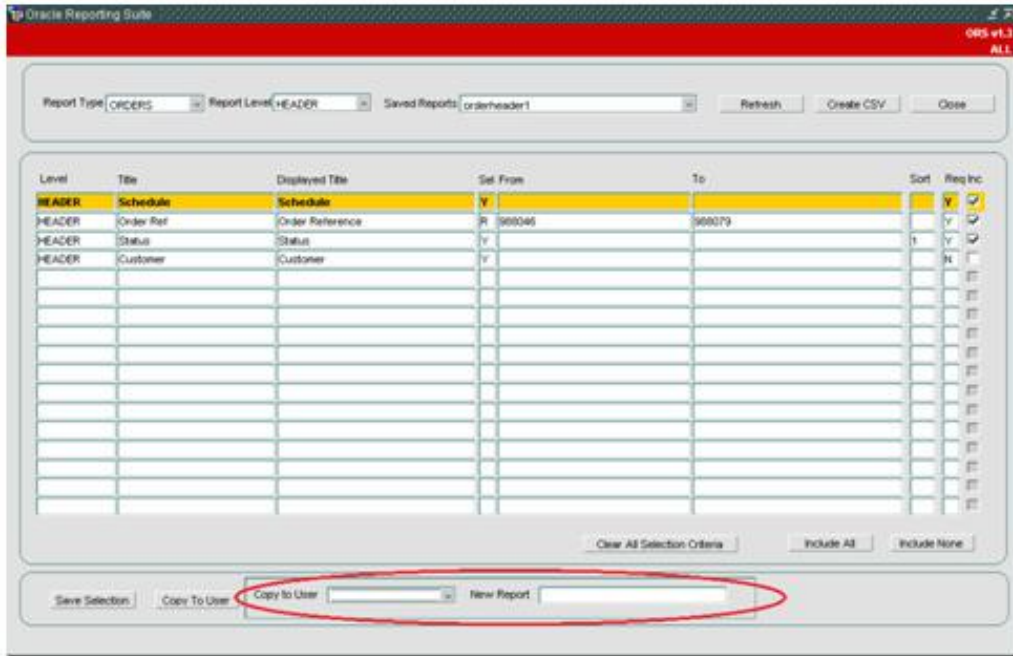
| ORS_MTS_OWNER_101025031031 [Read-Only] |          |                 |         |          |
|--|----------|-----------------|---------|----------|
|  | A        | B               | C       | D        |
| 1                                      | Schedule | Order Reference | Status  | Customer |
| 2                                      | 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.

## 17.9 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.



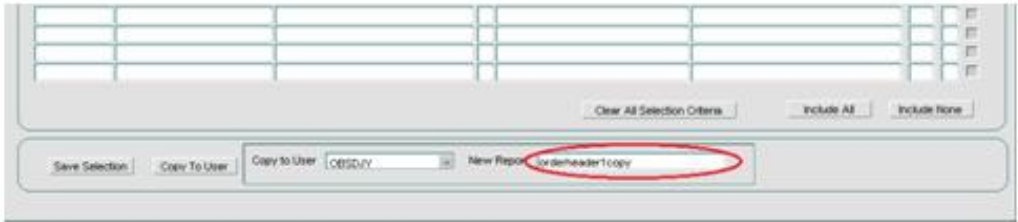


Selecting the user is done via a list displaying the users where the report can be copied to.



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).



### 17.10 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).



## 17.11 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.

The screenshot shows the Oracle Reporting Suite interface. At the top, there are dropdown menus for 'Report Type' (set to 'ORDERS') and 'Report Level' (set to 'LINE'). Below these are buttons for 'Refresh', 'Create CSV', and 'Close'. The main area is a table with columns: Level, Title, Displayed Title, Set From, To, Sort, and Req Inc. The table contains the following rows:

| Level  | Title     | Displayed Title | Set From | To | Sort | Req Inc                             |
|--------|-----------|-----------------|----------|----|------|-------------------------------------|
| LINE   | Line No   | Line No         | N        |    | Y    | <input checked="" type="checkbox"/> |
| LINE   | Prod Type | Prod Type       | N        |    |      | <input type="checkbox"/>            |
| LINE   | DU Type   | DU Type         | N        |    |      | <input type="checkbox"/>            |
| LINE   | Quantity  | Quantity        | N        |    |      | <input type="checkbox"/>            |
| HEADER | Schedule  | Schedule        | Y        |    |      | <input checked="" type="checkbox"/> |
| HEADER | Order Ref | Order Ref       | R        |    |      | <input checked="" type="checkbox"/> |
| HEADER | Status    | Status          | Y        |    |      | <input checked="" type="checkbox"/> |
| HEADER | Customer  | Customer        | Y        |    |      | <input type="checkbox"/>            |

At the bottom of the table, there are buttons for 'Clear All Selection Criteria', 'Include All', and 'Include None'. Below the table are buttons for 'Save Selection', 'Copy To User', and 'Delete Report'.

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

This screenshot is similar to the previous one, but with a restriction added to the 'Order Ref' field. The 'Set From' column for the 'Order Ref' row now contains the value '300000' and the 'To' column contains '300070'. A red oval highlights these two cells.

| Level  | Title     | Displayed Title | Set From | To     | Sort | Req Inc                             |
|--------|-----------|-----------------|----------|--------|------|-------------------------------------|
| LINE   | Line No   | Line No         | N        |        | Y    | <input checked="" type="checkbox"/> |
| LINE   | Prod Type | Prod Type       | N        |        |      | <input type="checkbox"/>            |
| LINE   | DU Type   | DU Type         | N        |        |      | <input type="checkbox"/>            |
| LINE   | Quantity  | Quantity        | N        |        |      | <input type="checkbox"/>            |
| HEADER | Schedule  | Schedule        | Y        |        |      | <input checked="" type="checkbox"/> |
| HEADER | Order Ref | Order Ref       | 300000   | 300070 |      | <input checked="" type="checkbox"/> |
| HEADER | Status    | Status          | Y        |        |      | <input checked="" type="checkbox"/> |
| HEADER | Customer  | Customer        | Y        |        |      | <input type="checkbox"/>            |



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.

|    | 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   |

## 17.12 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.

Report Name

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



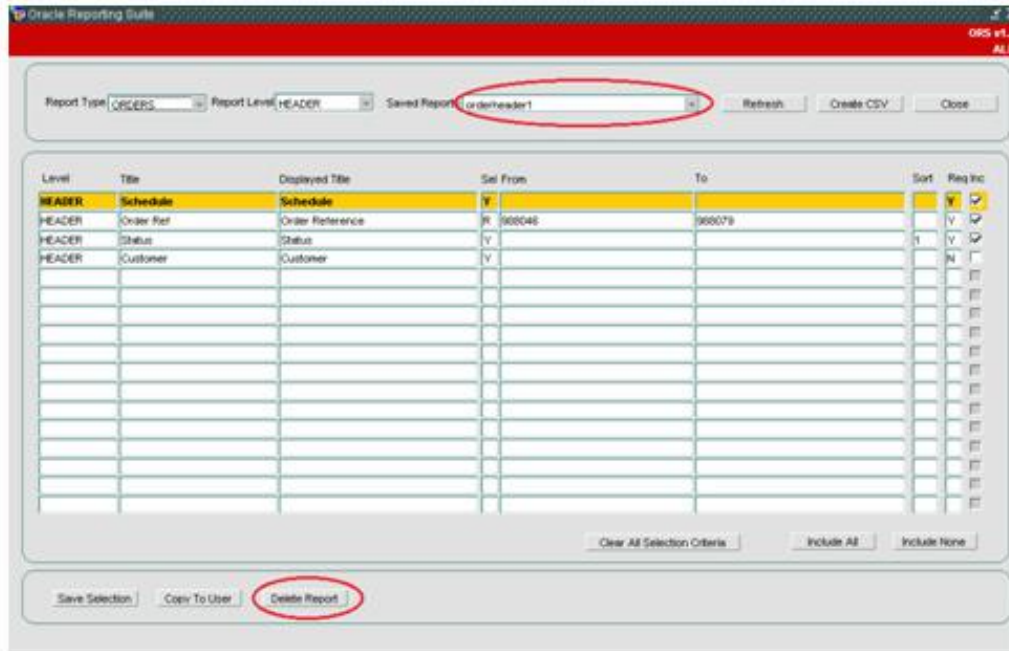
| ORS_MTS_OWNER_101026121037 [Read-Only] |          |           |         |         |         |         |
|--|----------|-----------|---------|---------|---------|---------|
|  | A        | B         | C       | D       | E       | F       |
| 1                                      | Schedule | Order 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 |         |

## 17.13 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.





The screenshot shows the Oracle Reporting Suite interface. At the top, the title bar reads "Oracle Reporting Suite" and the version information "ORS v1.17" and "C-TMS v10.7.9" is displayed. Below the title bar, there is a control panel with a "Report Type" dropdown set to "SCHED\_ORDS", a "Report L" dropdown with a menu open, and a "Saved Reports" dropdown. The menu is open, showing a list of report types: TRIP\_DATA, STOPS\_DATA, ORDERS\_DATA, ORDER\_LINE\_DATA, and ORD\_ITEM\_DATA. Below the control panel is a table with columns: Level, Title, Displayed Title, Sel From, To, Sort, Req Inc, Count Sum, and Group By. The first row is highlighted in yellow. Below the table are buttons for "Clear All Selection Criteria", "Include All", and "Include None". At the bottom of the window are buttons for "Save Selection", "Copy To User", and "Delete Report".

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.



Oracle Reporting Suite ORS v1.17 C-TMS v11.10

Report Type: SCHED\_ORDS Report Level: TRIP\_DATA Saved Reports: [ ] Refresh Create CSV Close

| Level     | Title               | Displayed Title     | Sel From | To | Sort     | Req      | Inc                                 | Count                               | Sum                      | Group By                            |
|-----------|---------------------|---------------------|----------|----|----------|----------|-------------------------------------|-------------------------------------|--------------------------|-------------------------------------|
| TRIP_DATA | Trip ID             | Trip ID             | R        |    |          | N        | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| TRIP_DATA | Schedule            | Schedule            | Y        |    |          | N        | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            |
| TRIP_DATA | Trip Status         | Trip Status         | Y        |    | 1        | N        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| TRIP_DATA | Transport Mode      | Transport Mode      | Y        |    |          | N        | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            |
| TRIP_DATA | <b>Owning Depot</b> | <b>Owning Depot</b> | <b>Y</b> |    | <b>2</b> | <b>N</b> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| TRIP_DATA | Cost Centre         | Cost Centre         | Y        |    |          | N        | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            |
| TRIP_DATA | Route Code          | Route Code          | Y        |    |          | N        | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            |
| TRIP_DATA | Carrier Id          | Carrier Id          | Y        |    |          | N        | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            |
| TRIP_DATA | Driver ID           | Driver ID           | Y        |    |          | N        | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            |
| TRIP_DATA | Start Time          | Start Time          | Y        |    |          | N        | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            |
| TRIP_DATA | End Time            | End Time            | Y        |    |          | N        | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            |
| TRIP_DATA | Tractor Id          | Tractor Id          | Y        |    |          | N        | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            |
| TRIP_DATA | Total Distance      | Total Distance      | Y        |    |          | N        | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            |
| TRIP_DATA | Total Driver Hours  | Total Driver Hours  | Y        |    |          | N        | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            |
| TRIP_DATA | Trip Cost           | Trip Cost           | Y        |    |          | N        | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            |
| TRIP_DATA | Utilisation         | Utilisation         | Y        |    |          | N        | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            |
| TRIP_DATA | Created date        | Created date        | R        |    |          | N        | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            |

Clear All Selection Criteria Include All Include None

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

## 17.15 Scheduling ORS Reports

Details of this can be found here: [EDI - Report/Extract Scheduling](#).

## 17.16 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 |



## 18 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     | CONDITITIONS       | Adds Charge Conditions to the report  | Standing Data | Finance                 |
| CONTRACTS  | 7     | VEHICLE            | Adds Vehicle to the report  | Standing Data | Finance                 |



| Type       | Level | Name             | Description  | S/T           | Data Reported     |
|------------|-------|------------------|--|---------------|-------------------|
| 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              |
| 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        |



| Type       | Level | Name               | Description  | S/T           | Data Reported |
|------------|-------|--------------------|--|---------------|---------------|
| 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         |
| 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  |



| Type       | Level | Name              | Description   | S/T           | Data Reported |
|------------|-------|-------------------|---|---------------|---------------|
| 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          |
| 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         |



| Type       | Level | Name            | Description  | S/T           | Data Reported    |
|------------|-------|-----------------|--|---------------|------------------|
| 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             |
| TYRE_ORDS  | 4     | FINANCE         | Fleet Maintenance report   | Transactional | Finance          |



| Type       | Level | Name | Description                           | S/T           | Data Reported |
|------------|-------|------|---------------------------------------|---------------|---------------|
| VOLUMETRIC | 1     | DATA | Product vehicle volumetric data       | Standing Data | Product       |
| ZONE       | 1     | ZONE | Reports on Zones set up in the system | Standing Data | Geographical  |



## 19 Tokairo DMS 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.

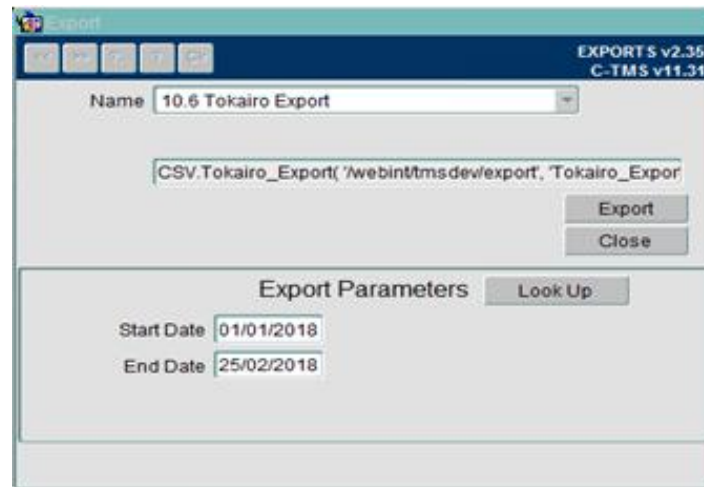
As paperwork is received, it is scanned as an image into the document management system (looks like a photocopier). The document manager software allows image templates to be pre-set and on those image template where the reference is printed. As the documents are scanned and an electronic image created, 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.

### 19.1 Process

#### 19.1.1 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.



| Customer Name                        | Cart ID  | Carrier Name                     | Carrier ID | External Ref   | Booking Ref | Del Point ref | CMR Ref   | Delivery Location Name | Est @ Planned | Early Available        | Target Name | Target @ |
|--------------------------------------|----------|----------------------------------|------------|----------------|-------------|---------------|---|------------------------|---------------|------------------------|-------------|----------|
| Accantia Limited                     | ACCANTIA | DHL                              | DHL        | TK30125_C3     | 43          |               | 008325 0308 MB OF NOTTINGHAM                      | 308 11/01/2018         | 11/01/2018    | Bawtry_East            | EXLSBAWT    |          |
| Deland Curtain Co                    | CLIB     | DHL                              | DHL        | TK34825-001    | 0461-34821  |               | 008329 Thurmanston Store in the GUNELM rd         | 390 11/01/2018         | 11/01/2018    | Bawtry_East            | EXLSBAWT    |          |
| DUNELM LTD                           | LOVEL    |                                  |            | 301000005      | 100001      | test          | 008027 FENTON DUNELM                              | 580 11/01/2010         | 11/01/2010    | Bawtry_East            | EXLSBAWT    |          |
| Accantia Limited                     | ACCANTIA | United Freight Distribution      | UPS        | 568            | 43          | test          | 000028 Brimhead_Merseyside Ship_0452 MERSEBR      | 11/11/2009             | 11/11/2009    | Bawtry_East            | EXLSBAWT    |          |
| E I GALLO WMS                        | EXEL WMS | Ever Bawtry                      | EXLSBAWT   | 108207         |             | 008206703     | 10423 Dewside_voland Dewside_CHO 2HWVCLD05        | 24/11/2005             | 24/11/2005    | Bawtry_East            | EXLSBAWT    |          |
| Kraft                                | KRAFT    | Toni Carter 03                   | CAR0303    |                |             |               | 1044 Raylax_Ramage Driv_30A11 PUL                 | 11/01/2005             | 11/01/2005    | luffernw_New Conflict  | EXLSLUFT    |          |
| Kraft                                | KRAFT    | East Lutterworth - Kraft         | EXLSLUFT   |                |             |               | 1048 Parkborough_Applis_30123 ROL                 | 11/01/2005             | 11/01/2005    | luffernw_New Conflict  | EXLSLUFT    |          |
| Kraft                                | KRAFT    | East Lutterworth - Kraft         | EXLSLUFT   |                |             |               | 1042 Wolverhampton_Baylis_30V4 6UD                | 11/01/2005             | 11/01/2005    | luffernw_New Conflict  | EXLSLUFT    |          |
| Kraft                                | KRAFT    | East Lutterworth - Kraft         | EXLSLUFT   |                |             |               | 1044 Luffernw_New Conflict White_S41 FEXLSLUFT    | 11/01/2005             | 11/01/2005    | luffernw_New Conflict  | EXLSLUFT    |          |
| Kraft                                | KRAFT    | East Lutterworth - Kraft         | EXLSLUFT   |                |             |               | 1040 Gidle_Baylis_0N34 5M2                        | 11/01/2005             | 11/01/2005    | luffernw_New Conflict  | EXLSLUFT    |          |
| Kraft                                | KRAFT    | East Lutterworth - Kraft         | EXLSLUFT   | 448019306      |             |               | 1047 Bradford_Mellroy Packaging_803 7 MAULBRAD    | 11/01/2005             | 11/01/2005    | luffernw_New Conflict  | EXLSLUFT    |          |
| Kraft                                | KRAFT    | East Lutterworth - Kraft         | EXLSLUFT   | 448019309      | 03886       |               | 1049 Coventry_P&M McName Ltd_C10 KUC P&MCOVE      | 11/01/2005             | 11/01/2005    | luffernw_New Conflict  | EXLSLUFT    |          |
| Kraft                                | KRAFT    | East Lutterworth - Kraft         | EXLSLUFT   |                |             |               | 1041 Loughton_Buzzard_Baylis_1177396              | 11/01/2005             | 11/01/2005    | luffernw_New Conflict  | EXLSLUFT    |          |
| Kraft                                | KRAFT    | East Lutterworth - Kraft         | EXLSLUFT   | 80101171       |             |               | 1039 Warrington_Baylis_30M 601                    | 11/01/2005             | 11/01/2005    | luffernw_New Conflict  | EXLSLUFT    |          |
| Kraft                                | KRAFT    | SouthWest Refrigerated Transport | SWFTFCO2   | 448019400      |             |               | 1043 Brandon_P&M McName Ltd_8702 0A2              | 11/01/2005             | 11/01/2005    | luffernw_New Conflict  | EXLSLUFT    |          |
| Kraft                                | KRAFT    | East Lutterworth - Kraft         | EXLSLUFT   | 448019406      |             |               | 1050 Preston_James Hall & Co_Sou_P02 8 JAMESPRE   | 11/01/2005             | 11/01/2005    | luffernw_New Conflict  | EXLSLUFT    |          |
| Kraft                                | KRAFT    | East Lutterworth - Kraft         | EXLSLUFT   |                |             |               | 1046 Stockton_Safeway Stockton_T108 31 SAFESTOC   | 11/01/2005             | 11/01/2005    | luffernw_New Conflict  | EXLSLUFT    |          |
| Kraft                                | KRAFT    | East Lutterworth - Kraft         | EXLSLUFT   |                | 42          |               | 1048 Wellington_Booker C&C_N08 HBOOKWELL          | 11/01/2005             | 11/01/2005    | luffernw_New Conflict  | EXLSLUFT    |          |
| United Biscuits                      | UB       | East Farnham                     | EXLSBAR    | 4201340        |             |               | 1061 Great Ys_G W Farnh & Sons_N011 0 G W YERRA   | 01/06/2005             | 01/06/2005    | Newton_L_East - United | EXSLNEWIT   |          |
| United Biscuits                      | UB       | East Farnham                     | EXLSBAR    | 4201340        |             |               | 1050 Canterbury_East Kent Foods Co_C11 3 EASTCANT | 01/06/2005             | 01/06/2005    | Newton_L_East - United | EXSLNEWIT   |          |
| United Biscuits                      | UB       | East Farnham                     | EXLSBAR    | 4201399        |             |               | 1060 Bury St_N04 Lightfoot Auth_3031 by N04 BURY  | 01/06/2005             | 01/06/2005    | Newton_L_East - United | EXSLNEWIT   |          |
| United Biscuits                      | UB       | East Farnham                     | EXLSBAR    | 4201394        |             |               | 1059 Walsall_3663 Forz For Foc_W018 617           | 01/06/2005             | 01/06/2005    | Newton_L_East - United | EXSLNEWIT   |          |
| United Biscuits                      | UB       | Ken Abrams                       | ABRAMS     | 4201978        |             |               | 1029 London_M08 Food Precision_S06 5 M08 LOND     | 01/06/2005             | 01/06/2005    | Newton_L_East - United | EXSLNEWIT   |          |
| United Biscuits                      | UB       | Ken Abrams                       | ABRAMS     | 4202009        |             |               | 1017 Oxford_M05 Edebridge_T04 50 M05EDEN          | 01/06/2005             | 01/06/2005    | Newton_L_East - United | EXSLNEWIT   |          |
| United Biscuits                      | UB       | Ken Abrams                       | ABRAMS     | 4202077        |             |               | 1040 Aylesford_Palmer&Kenney_M020 70 PALMSOCCO    | 01/06/2005             | 01/06/2005    | Newton_L_East - United | EXSLNEWIT   |          |
| United Biscuits                      | UB       | Hunt Bros Transport              | HUNT       | 4201343        |             |               | 1051 Ramham_Somerfield Ramham_M03 SCAMRAM         | 01/06/2005             | 01/06/2005    | Newton_L_East - United | EXSLNEWIT   |          |
| United Biscuits                      | UB       | Hunt Bros Transport              | HUNT       | 4201389        |             |               | 1041 Hatfield_Booker 6186 ALD0 700 HATCHFTR       | 01/06/2005             | 01/06/2005    | Newton_L_East - United | EXSLNEWIT   |          |
| United Biscuits                      | UB       | NorthWest Hub                    | NWHLB      | 4201993        |             |               | 1031 Livingston_Booker C&C_040A 50A               | 01/06/2005             | 01/06/2005    | Newton_L_East - United | EXSLNEWIT   |          |
| United Biscuits                      | UB       | NorthWest Hub                    | NWHLB      | 4201991        |             |               | 1054 Newbridge_3663 Newbridge_0432 8 3663NEWB     | 01/06/2005             | 01/06/2005    | Newton_L_East - United | EXSLNEWIT   |          |
| United Biscuits                      | UB       | Deverux Transport                | DEVTRUX    | 4201258        |             |               | 1052 Stockton_Mirvions_T10202                     | 01/06/2005             | 01/06/2005    | Newton_L_East - United | EXSLNEWIT   |          |
| GlasgowMachline                      | GOK      |                                  |            | C308126_C3     |             |               | 008643 OMS LONDON                                 |                        | 24/01/2018    | DM CHERWELL 3          | DMCHERI     |          |
| ACTAVIS-03                           | AO3      | DM CHERWELL                      | DMCHER     | TK34821-001_C3 |             |               | 008643 DM Cherwell 3                              |                        | 23/01/2018    | DM CHERWELL 3          | DMCHERI     |          |
| GlasgowMachline                      | GOK      | DM LUTTERWORTH                   | DMLUFT     | C308126_C3     |             |               | 008640 DM CHERWELL 3                              |                        | 24/01/2018    | DM CHERWELL 3          | DMCHERI     |          |
| GlasgowMachline                      | GOK      | ALB TRAMSPORT                    | ALBTRPT    | C308126_C3     |             |               | 008661 ALDOR HET LIVERPOOL WARD 3                 |                        | 24/01/2018    | DM CHERWELL 3          | DMCHERI     |          |
| TRENCH PRODUCTS FOR HOME AND KITCHEN | TRENCH   | DM CHERWELL                      | DMCHER     | TK12345678_C3  |             | 44            | 008644 DONASTIC ADDRESS 1                         |                        | 18/06/2017    | DM CHERWELL 3          | DMCHERI     |          |
| TRENCH PRODUCTS FOR HOME AND KITCHEN | TRENCH   | DM CHERWELL                      | DMCHER     | TK12345678_C3  |             |               | 008647 DONASTIC ADDRESS 2                         |                        | 18/06/2017    | DM CHERWELL 3          | DMCHERI     |          |

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             |
| 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/xxxst/interface/TOK/OUT          |
|                       |   | Live :- /webint/xxxprd/interface/TOK/OUT         |
| Archive Folder        | Folder into which successful files are placed     | Test :-/webint/xxxst/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                                      |



| Parameter Name | Parameter Description | Value       |
|----------------|-----------------------|-------------|
|                |                       | 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  |

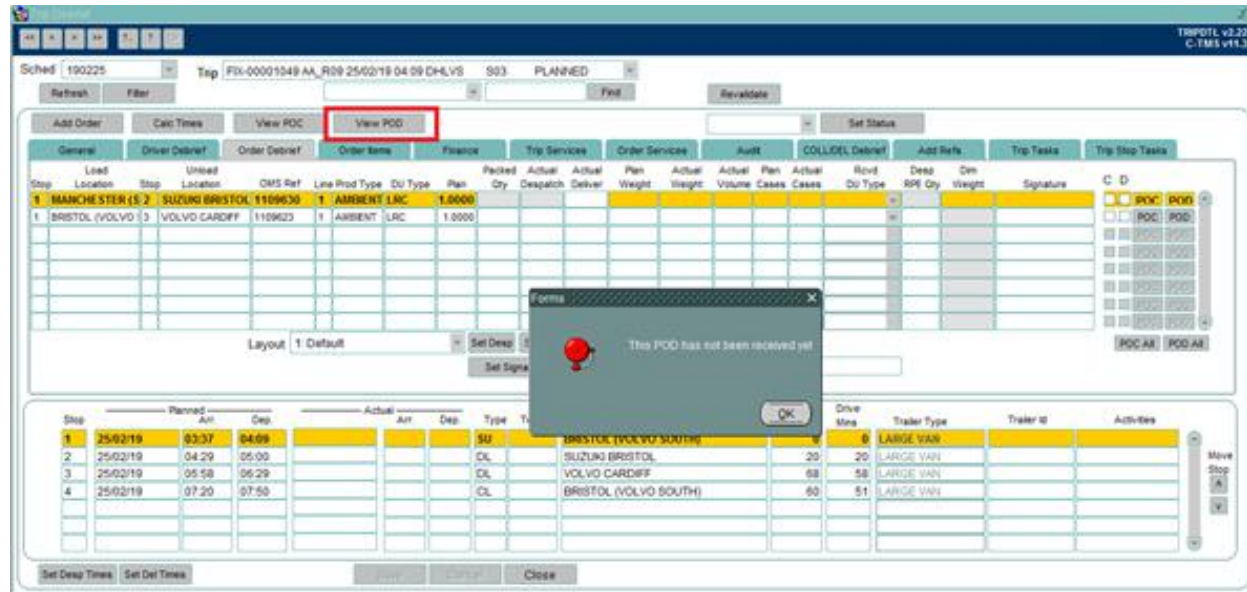
| Title       | Name   | Value             |
|-------------|--------|-------------------|
| Export Name | EXPORT | CSV.Tokairo_Daily |

## 19.2 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 | &name=CN-POD                      | Defines the Tokairo Customer Name.                            |
| TOK_CUSTOMERS        | SYSTEM | NONE | OPENFIELD                         | A comma-delimited list of customers to interface with Tokairo |
| TOK_FIELD            | SYSTEM | NONE | &fld=OMSID&srchRef=               | Defines the Tokairo field name.                               |
| TOK_OUTBOUND_ARCHIVE | SYSTEM | NONE | /webint/tms/devinterface/TOK/OUT/ | Filepath for Tokairo Daily Extract archive                    |
| TOK_OUTBOUND_PATH    | SYSTEM | NONE | /webint/tms/devinterface/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.                        |

### 19.3 Further Configuration

The following System Parameters affect this functionality:

| Parameter | Description                        | Level    |
|-----------|------------------------------------|----------|
| TOK_CNAME | Defines the Tokairo Customer Name. | CUSTOMER |



| Parameter            | Description  | Level    |
|----------------------|--|----------|
| 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 |



## 20 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

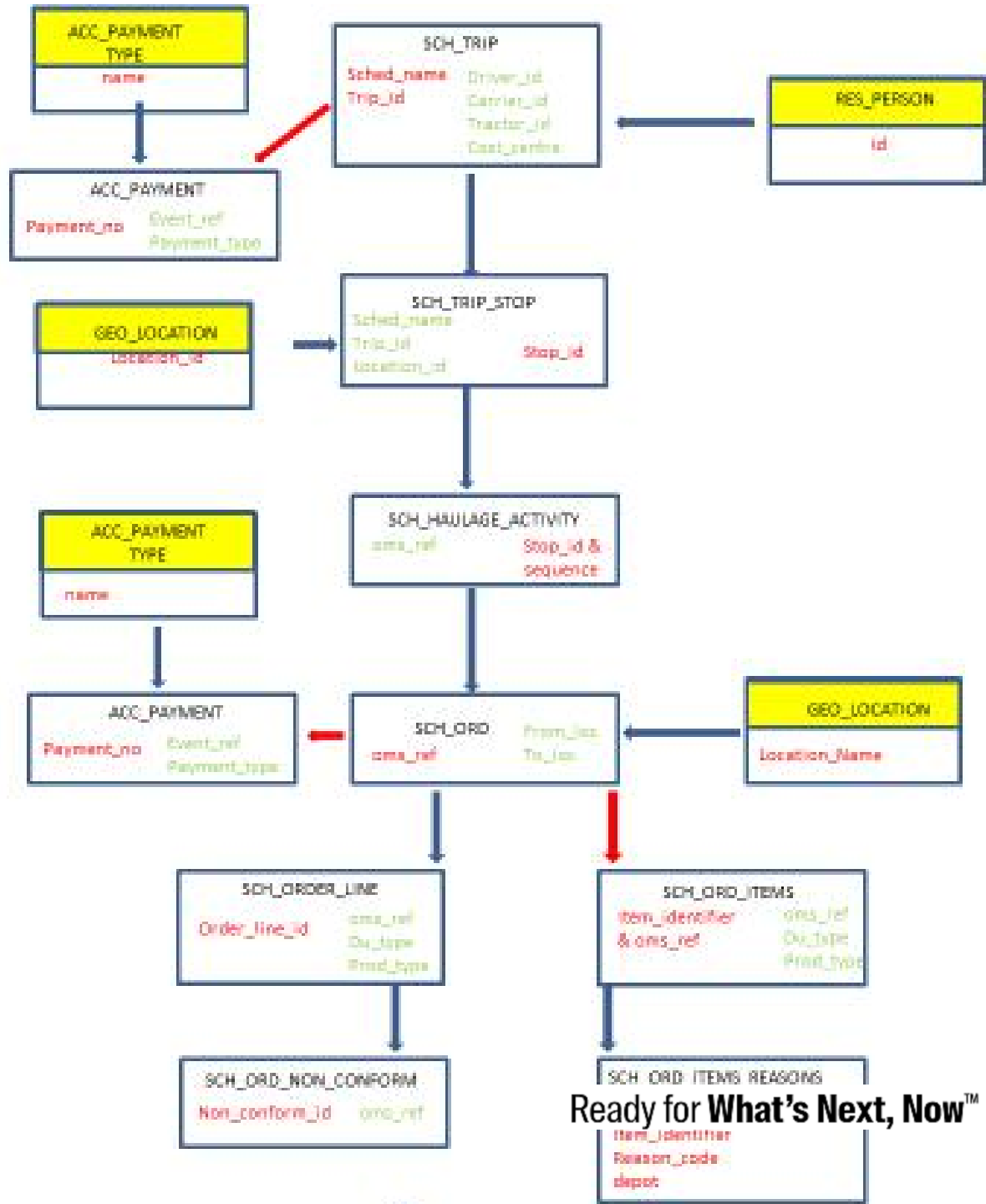
Note: Other tables are available and may be exported - these are the most common. The tables and fields exported can be configured (added to or removed, based on customer processing requirements).



## 21 Schematic

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



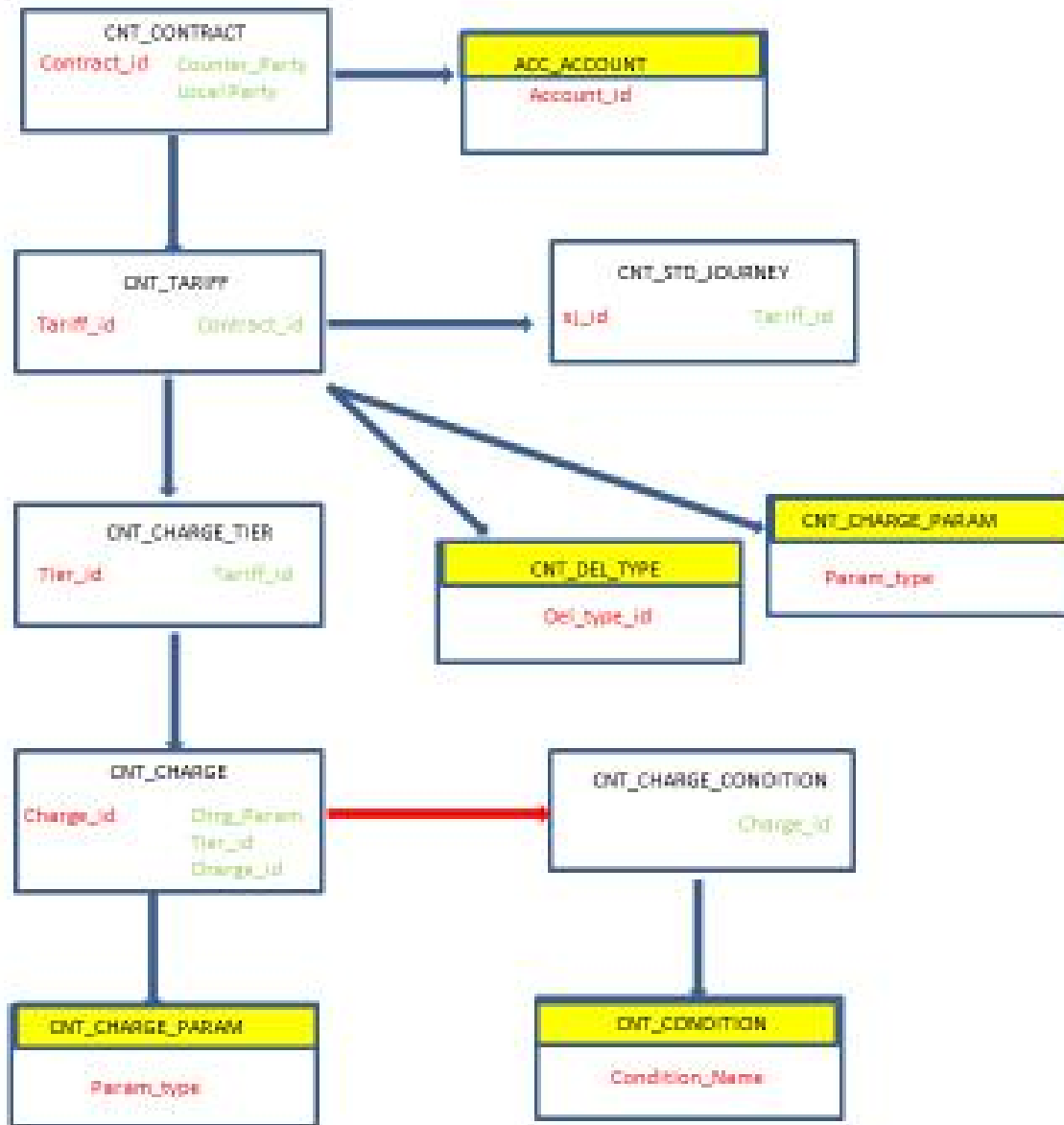


Ready for **What's Next, Now™**



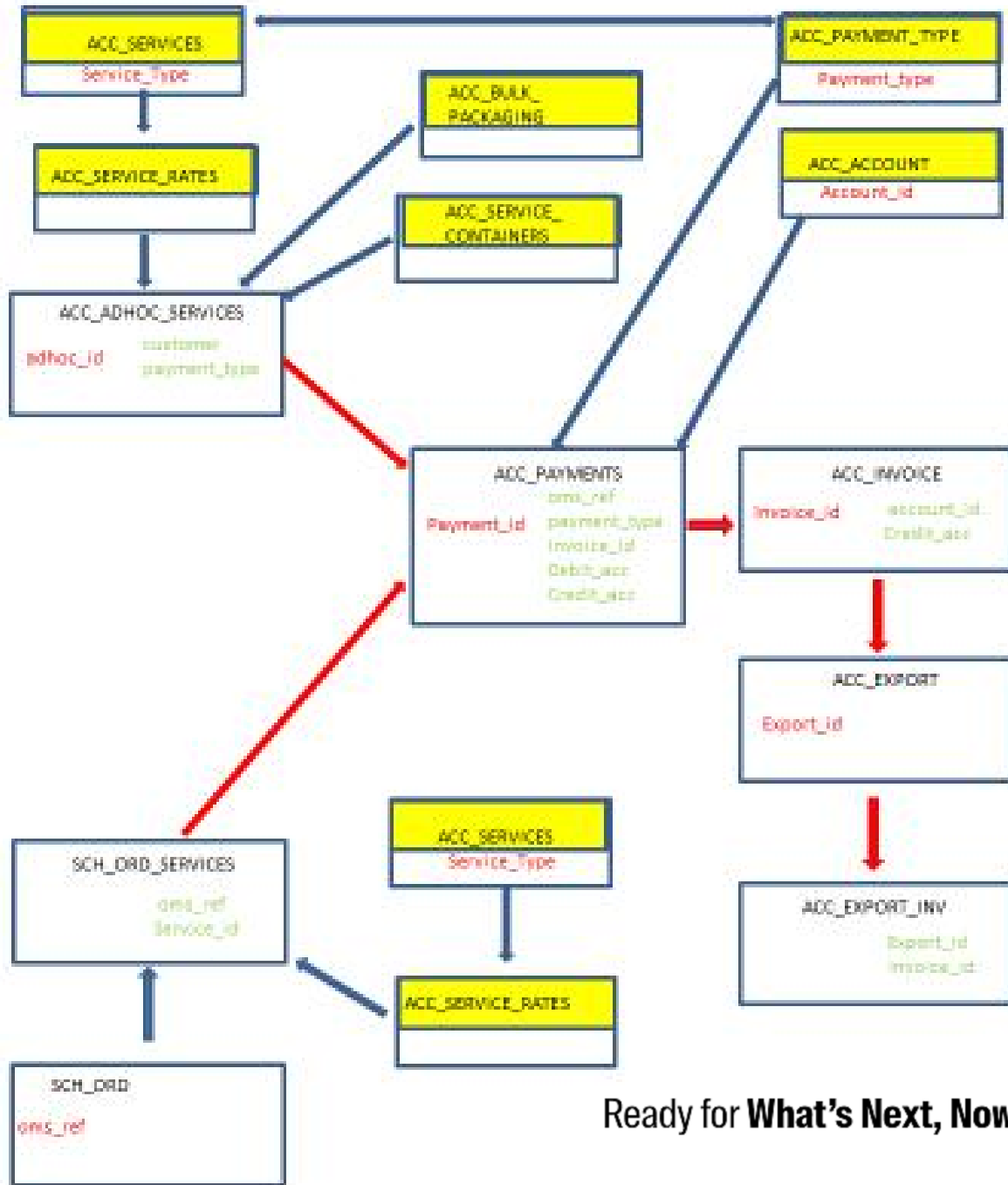
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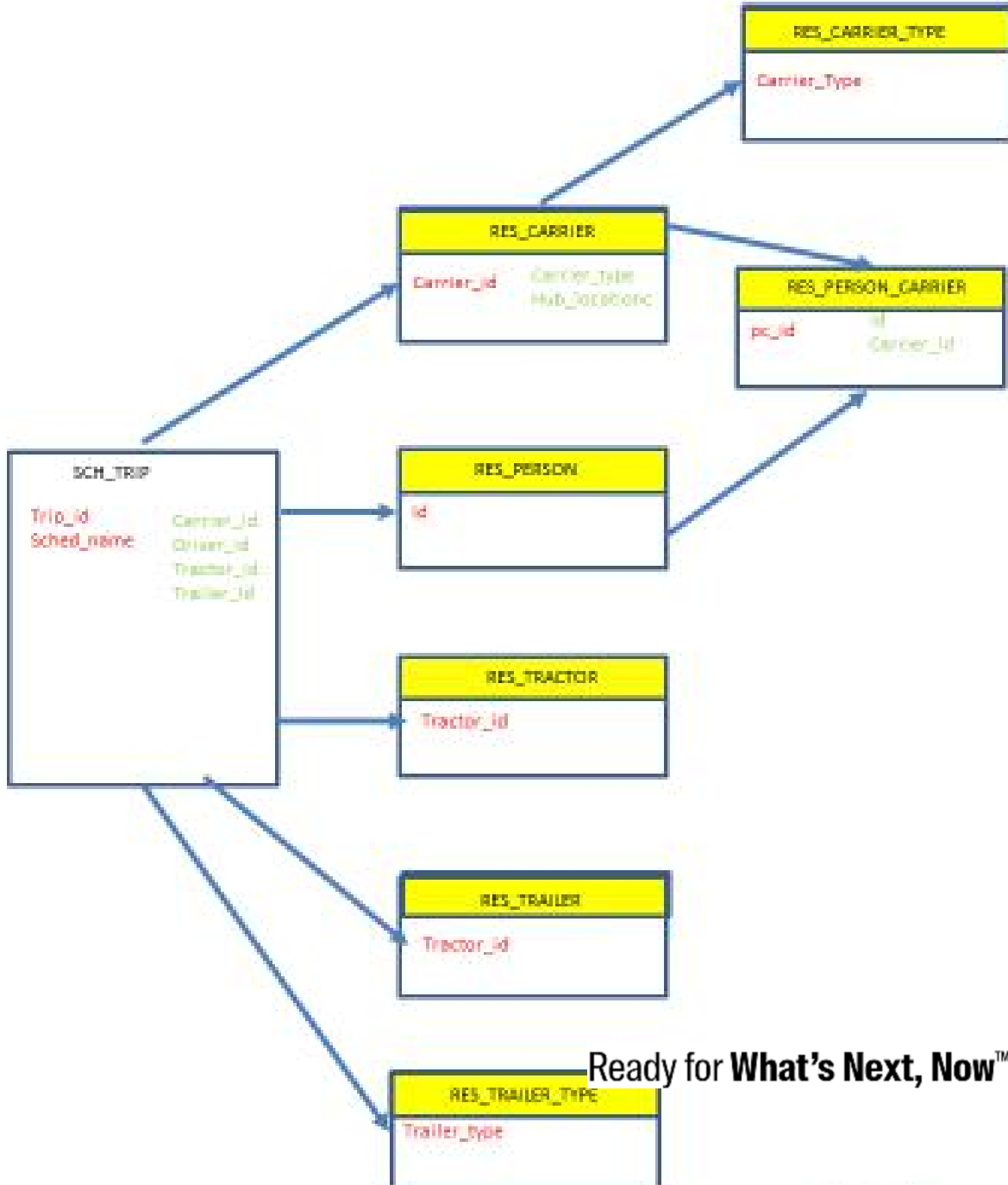


Ready for **What's Next, Now™**



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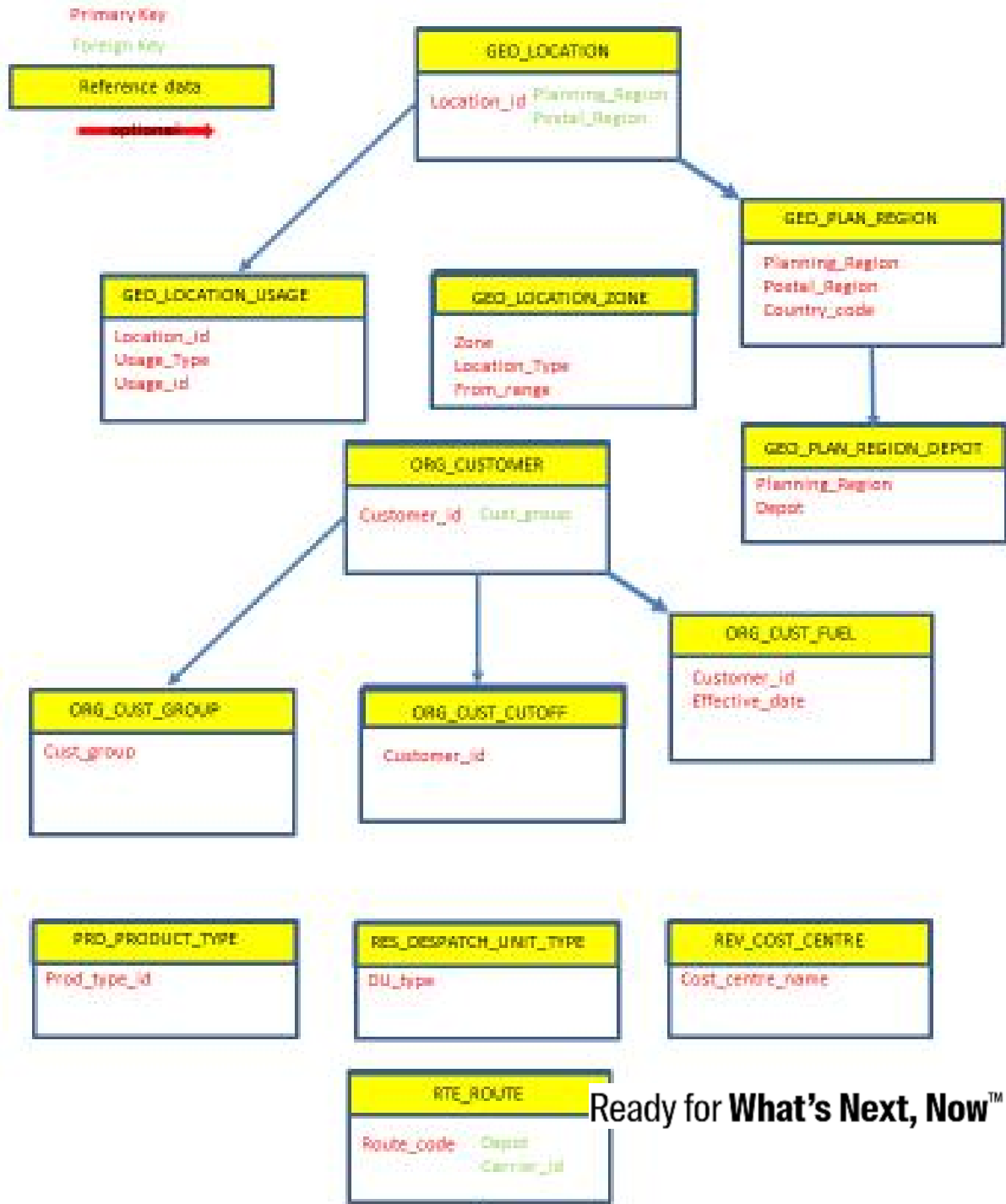


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## 22 Data Fields

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           |
|              | COUNTRY       | 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_EMPTYIES         | 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 |
|------------|--------------|----------------|-------------|
| 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           |
|               | SCHEM_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 |



## 23 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 screenshot displays the 'EDI Maintenance' application window. The main configuration area includes fields for Process Name (DAILY\_EXTRACTS), Filename Format (\*.csv), Customer, Cost Centre Code, Location, Direction (Outbound), Flow Type (PROCESS), Frequency Type (Regular Interval), Interval Length (1 Days), Status (Running), Last Run Date (31-OCT-2025 07:13:37), and Next Run Date (01-NOV-2025 07:13:37). There are also buttons for Start, Stop, Params, and Output, and checkboxes for Send DEL Message and Send ARR Message. Below these are fields for Delivery, Archive, Failures, and Acknowledgement folders, all set to /webint/ststprd/export.

The 'Process Trigger Types' dialog box is open, showing a table with the following data:

| Title        | Name    | Value                         |
|--------------|---------|-------------------------------|
| PACKAGE NAME | PROCESS | DP MIS.pr create all extracts |
|              |         |                               |
|              |         |                               |
|              |         |                               |
|              |         |                               |
|              |         |                               |
|              |         |                               |
|              |         |                               |
|              |         |                               |
|              |         |                               |

Buttons for New, Delete, Close, and Save are located at the bottom of the dialog box.



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.



# 24 UG Customer Onboarding Interface Guide



Aptean

## Customer Onboarding Interface Guide

CTMS USER GUIDE - 11.47

16/02/24 - 1.0

Reference: UG-CUST-API



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

## 24.1 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/orawsv/MTS_OWNER/DP_CTMS_IMPORT/IMPORT_CUSTOMER>  
<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>

```

## 24.2 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.

## 24.3 Content Format

Content is XML.

### 24.3.1 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 |
|-------|------|---------|-----|-------|
|-------|------|---------|-----|-------|



| 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 error this 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          |     | 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   |

## 24.4 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 <i>not</i> 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 <i>not</i> be overwritten by the default value parameter. |
| 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.



### 24.4.1 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.

### 24.4.2 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   |                                       |
| 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.



### 24.4.3 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.

### 24.5 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>
      <COUNTRY></COUNTRY>
      <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>
  </GEO_LOCATIONS>

```



```

</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>
  <COUNTRY></COUNTRY>
  <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>

```

## 24.6 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.

## 24.7 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>

```



```

    </IMPORT_CUSTOMEROutput>
  </soap:Body>
</soap:Envelope>

```

A CTMS\_IMPORT\_CUSTOMER\_RESPONSE tag will include a RESULT 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.   |
| 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).             |

