Contents

1 DHL Automotive Process

Warning: This is an incomplete guide.

The purpose of this page is show base functionality that is in use within the Automotive Alliance system, as well as any particular options that a customer process may use.

1.1 Systems

- CALIDUS Systems
  - CTMS (**Base**)
  - WCS (**Base**)
  - PORTAL
- Client Systems
  - My Supply Chain (**Base**)
  - Microlise
  - MixMove

1.2 Process

1.2.1 Order Creation

Base:

- Order created in Fixed Schedule

Options:

- Add items via WCS Order Creation
  - Loose Items and Assets (Roll Cases, pre-identified with fixed barcode)
- Add Items and Contents via WCS Order Creation
- Item creation through EDI
- Item Content creation through EDI
- Customer Order identification through EDI

1.2.2 Execution

Base:

- WCS Loading of Order Items
  - ctms:Loading Management - release to WCS for loading.
- Cross-dock operation (manual)
- Mixmove cross-dock scanning

Options:

- Microlise Delivery of Order Items
  - Automatic Debrief of Order and Trip Stop/Trip.

1.2.3 Tracking

Base:

- My Supply Chain Interface

Options:

- Portal TTM/TMS
- Customer Tracking Interface

1.2.4 Returns

Base:

- Manual updates via customer systems

Options:

- Portal TMS Returns of Cages.
- Portal TMS Returns of Product
- Portal TMS Return Label Production.

1.3 Config

1.3.1 Customer

ctms:Customers

New customer setup.

Optional:

- *Params* tab:
  - *Consolidate Orders*
  - *Use Own Packaging*

1.3.2 Locations

ctms:Locations

Location required for source of product (**Base**). This will be:

- Client Warehouse
  - Option: Special/WCS Item to Asset - controls FCA process (Items to Asset)
- Client RDC/XDock locations (**Base**)
  - Special/RF Cross-dock
- Dealerships
  - As any other BRANCH location.

Note: If you are setting up a completely new depot (RDC or Warehouse), you must also configure the OAQ tables for this depot - see section OAQ Configuration below.

1.3.3 Decodes

ctms:Imports#Decodes

Decodes depend on the import (mostly) and export processes in use by the system.

These are used by these processes to convert the client data field content to CTMS data.

Samples of existing decodes below.

DECODE_NAME	DECODE_TYPE
BMW_ASSET_TYPE	DU_TYPE
BMW_RET_TYPE	REFERENCE
BMW_TRANSPORT	REFERENCE
BMW_WAREHOUSE	LOCATION
FIAT_DEALERSHIP	LOCATION
FIAT_DUS	DU_TYPE
FORD_DEALERSHIP	LOCATION

DECODE_NAME	DECODE_TYPE
FORD_DU	DU_TYPE
FORD_LOCATION	LOCATION
TESLA_DEALERSHIPS	REFERENCE
TESLA_DU_TYPES	REFERENCE
TOY_ASSET_TYPE	DU_TYPE
TOY_DEALERSHIP	LOCATION
TOY_PACKAGE_CODE	DU_TYPE
TOY_PACK_TYPE	REFERENCE
WCS_DEALERSHIP	LOCATION

In general, the dealership locations are set against the imports/exports. If importing or exporting from another system, the locations are likely to be reused.

e.g. Location 11258 for Toyota may/will not be the same as location11258 for Ford.

In order to combat this, the locations are decoded. So 1148 arriving for a Ford order is perhaps decoded to e.g. F11258.

Similarly outbound - the locations are decodes in reverse.

DHL Link may also do a similar decoding.

As can be seen, any inbound interface would also need to decode customer-specific asset types, DU types, etc.

1.3.4 Fixed Schedules

ctms:Fixed Templates

The dealerships are strategically determined to have a delivery several times a week (perhaps even Daily).

The client works out where they will be delivering to each dealership and at what time, based on resources.

They also work out the collection time each day from the stock holding location (customer warehouse) to closest DHL hub.

This is saved onto the fixed schedule and the dealerships informed of their scheduled deliveries.

1.3.5 EDI

ctms:EDI Maintenance

Base:

- MySC/ConnectedView Tracking EDI - Outbound
  - CNV_ACC_AAMP
  - CNV_OFDC_AAMPENROUTE
  - CNV_OFDC_AAMPCOMPL
- Microlise - execution of initial pickup/final delivery/returns pickup
- MixMove - cross-dock processing/debrief
  - ACCEPT_MIXMOVE_TRUNKS - Outbound - INT_XML_OUT2.AUTO_ACCEPTED
  - MIXMOVE_SCNS - Inbound
  - MIXMOVE - Outbound

Options:

- Order Inbound processes
  - BMW
    - BMW_INBOUND_ORDERS - Inbound - DP_BMW_EDI_IN.PROCESS_FILES
    - BMW_CLAIM_ORDERS - Outbound - DP_BMW_EDI_OUT.SEND_CLAIMS
  - Tesla - TESLA_ORDERS - Inbound - DP_TESLA_EDI_IN.IMPORT_ORDERS
    - Tesla Orders EDI
    - Support - Tesla EDI Inbound Guide
  - Toyota - TOYOTA_ORDER_ITEMS - Inbound - DP_TOY_EDI_IN.P_PROCESS_FILES
  - Ford - FORD_EDI_IN - Inbound - Ford Orders EDI

        - ♦ Scania - SCANIA_ORDER_ITEMS - Inbound
- Customer-Specific Tracking EDI
        - ♦ Tesla - TESLA_TRACKING - Outbound
            - ◊ Support - Tesla EDI Outbound Guide
        - ♦ FCA/FIAT - CLICK_OUTBOUND - Outbound
        - ♦ Ford (TBC)

1.3.6 WCS Maintenance

ctms:WCS Maintenance controls the basic configuration of WCS and should realistically only need to be done once.

1.3.7 Assets

Permanent assets need to be set up in CTMS for customers.

ctms:Asset Management

Note: At least 1 permanent asset for the customer must be set up BEFORE any others can be set up in the screen.

- Create a dummy one in the database first. Simply setup a new ASSET_DETAIL with the new owner, following the layout of an existing asset (e.g. NEW).

1.3.8 OAQ Configuration

If you are setting up a new depot (in the Locations section above), add your depot and link to agent on APP_AGENT table, for example:

DEPOT	AGENT	Q_SCHEMA	PRIMARY_AGENT
DHLMIDD	AG_AUTO	MTS_OWNER	N

1.4 Reports/Imports/Exports

1.4.1 Reports

AA Delivery Status Report External	AA_DEL_STAT
AA Delivery Status Report Internal	AA_DEL_STAT
AA Trip Sheet	AA_TRIP_SHEET.rep

1.4.2 Extracts

See ctms:Extracts - WCS Scanning

Also:

Automotive Planning Report	Planning_Report	DP_CSV2.PLANNING_REPORT
BMW Asset Dwell	AUTO_ASSET_DWELL	DP_CSV3.AUTO_AFTERMARKET_BMW

2 Category:DHL Ford

3 DHL Invoicing

4 DHL Invoicing

The invoicing is transactional so requires data extracted from each system.

5 DHL Invoicing - CTMS

Each server has a crontab entry to run the processing on the 1st of the month. It runs at 0421.

```
#Entry for DHL monthly invoicing

21 4 1 * * /oraapp/util/sql/dhl_invoicing >> /tmp/dhl_invoicing
```

The script calls a database process called DP_DHL_INVOICING.RUN_ME

Using the oratab entries (active systems) the script will run against each live database.

The package code is in CVS and should be maintained through the standard code change procedures.

A system parameter called DHL_INV_EMAIL which contains the list of email addresses to send the output to. Multiple entries should be separated with a semi-colon.

The processing runs slightly different iterations of the queries depending on the system. The queries were split into groups based on the agreed costing models.

There is also a listing of users.

Users:

- List of users who logged in in the last month.

Group 1:

- Trips - count of non-deleted trips in the previous month
- Bookings - count of schedule bookings in the previous month
- Scheduled Orders - count of orders' Load activities in the previous month.

Group 2:

- Scheduled Orders - count of orders' Load activities in the previous month, split down by cost centre and planning group (depot).

Databases and Groups:

Database	Processes Run
aam	Users, Group 1, Group 2
bnl	Users, Group 1, Group 2
con	Users, Group 1, Group 2
dun	Users, Group 1, Capped Orders, Group 2
eur	Users, Group 1, Group 2
hcr	Users, Group 1, Group 2, Scheduled Low Volume Orders, Scheduled Standard Orders
ind	Users, Group 1, Group 2

Note:

- dun - includes a list of capped orders (order count is a minimum of 30 orders per trip, or the count of orders per trip, whichever is the larger).
- hcr - includes a split of low-volume orders (volume <= 0.20) and standard orders (any order not in that list above).

Each database will send an email with an attachment which contains tab separated data. It can be pasted directly into Excel.

6 DHL Invoicing - LOTS

There is a stored procedure in the MySQL database called dhl_invoicing that contains the SQL.

A bat file D:\LOTS\Invoicing\invoicing.bat runs the stored procedure and emails the file created. The file is then deleted (MySQL cannot overwrite a file).

The list of email addresses is hard coded but it is just a text file that can be edited as required.

The bat file runs from the Windows task scheduler on the first of the month at 0421

7 Category:DHL Tesla

8 Category:DHLT EST

9 Category:DHLT FS

10 Category:DHLT SCR

11 Tesla Orders EDI

Tesla EDI is a DHL AA interface, which is a pass-through from DHL Link from SAP.

11.1 Content

The content is XML from SAP, containing

- Pallets - a collection of pallet nodes with
  - Orders
  - Boxes
  - Order Lines
- Orders - a collection of order nodes with
  - Order_lines and contained tags.

Sample file:

- File:Order confirmation from seven CP23-0087137.txt

11.2 Process

Package DP_TESLA_EDI_IN

The IMPORT_ORDERS imports the filed.

PROCESS_IMPORT process

Stores in files:

- TESLA_EDI_ORDER_HEADER - mainly derived from /pallet/orders/order
- TESLA_EDI_ORDER_DETAILS - mainly derived from the box node

These are run through several times in order to turn the input the right way up (the import is in two sections, and the boxes lists the boxes, followed bu the orders and lines, and finally the pallet).

f_process_order finds the order from the details provided and

This process uses EDI parameters:

- DEFAULT_DU
- DEFAULT_PROD
- ALLOW_REUSABLE_ASSET

This process uses decodes:

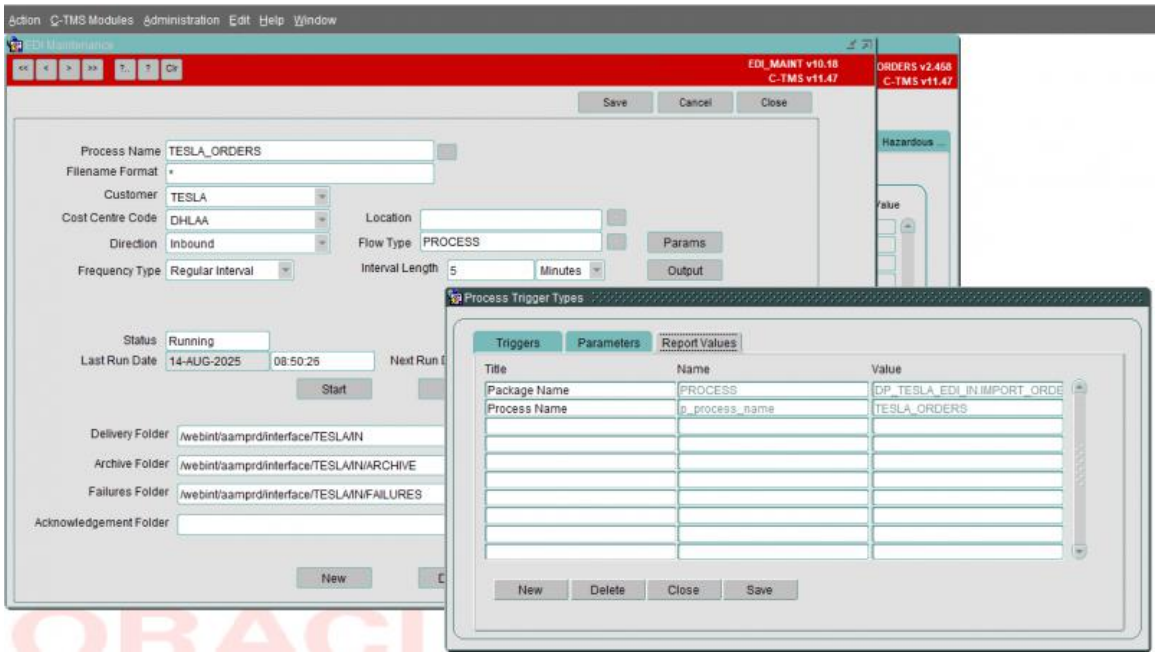
- TESLA_DELAERSHIPS
- TESLA_DU_TYPES

The process

- Finds the schedule from the del date
- Finds the order using the dealership location stored, the schedule found and the EDI process' customer and cost centre
- Inserts the lines, items and contents records.
- Inserts order references
  - CONSOLIDATED_ORDER_REFERENCE - one of
  - MH_ORDER_REF - one of
  - TESLA_ORDER_REFERENCE - many, derived from the order lines

11.3 Implementation

Create an EDI



- Flow Type: PROCESS
- Parameters
  - ♦ Report Values
    - ◊ Package Name - PROCESS - DP_TESLA_EDI_IN.IMPORT_ORDERS
    - ◊ Process Name - p_process_name - TESLA_ORDERS
  - ♦ Parameters
    - ◊ ALLOW_REUSABLE_ASSET
    - ◊ DEFAULT_DU
    - ◊ DEFAULT_PROD

11.4 Management

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

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.