EPOD-TTM Interface

Aptean Ltd

Contents

1 EPOD-TTM Interface

This document is intended to show every message sent from *CALIDUS* ePOD to *CALIDUS* Portal for the Track and Trace module (TTM) to function as expected. The details of all messages, their contents and how they are populated and produced from *CALIDUS* ePOD is shown in this document.

1.1 Scope

This document and all message formats conform to the *CALIDUS* Portal LOTS-tripOrder XSD version 1.34. If this is changed, or if *CALIDUS* Portal functionality changes based on tags that already exist, both this document and the *CALIDUS* ePOD export processes will require modification.

All functionality described here is gathered from version 4.0.02.02 of the *CALIDUS* ePOD Server module.

2 Details

2.1 General Message Format

Each message type sent is encapsulated in standard envelope, as described below:

```
<OBS_XML>
    <EVENT>
        <EVENT_HEADER>
            <EVENT_PROCESSED>N</EVENT_PROCESSED>
            <EVENT_SOURCE_TYPE>EPOD</EVENT_SOURCE_TYPE>
            <EVENT_SOURCE_NAME></EVENT_SOURCE_NAME>
            <EVENT_DATE></EVENT_DATE>
            <EVENT_TYPE></EVENT_TYPE>
            <EVENT_ACTION></EVENT_ACTION>
            <EVENT_TIMEZONE></EVENT_TIMEZONE>
        </EVENT_HEADER>
        <EVENT_DETAIL>
            ...
        </EVENT_DETAIL>
    </EVENT>
</OBS_XML>
```

Variable data:

Tag	Notes
EVENT_SOURCE_NAME	EPL_SITE_ID
EVENT_DATE	Dependent on message type - see notes below
EVENT_TIME	Dependent on message type - see notes below
EVENT_ACTION	Dependent on type. For ORD and TRP, "R", for other types "C"
EVENT_DETAIL	The defined message content per message type, detailed in the specific Message Type sections in this document.
EVENT_TIMEZONE	The local Timezone Olsen ID for TRP messages, omitted for others. If omitted or blank, *CALIDUS* Portal assumes GMT.

Notes:

Type	EVENT_DATE	EVENT_TIME
DEL	EPL_END_ACTUAL_DATE	EPL_END_ACTUAL_TIME
CAN	EPL_END_ACTUAL_DATE	EPL_END_ACTUAL_TIME
COL	EPL_END_ACTUAL_DATE	EPL_END_ACTUAL_TIME
ARR	EPL_ARRIVAL_DATE if populated else EPL_START_ACTUAL_DATE	EPL_ARRIVAL_TIME if populated else EPL_START_ACTUAL_TIME
OIT	Date when sending message	Time when sending message
ORD	Date when sending message	Time when sending message
TRP	EPL_LOAD_START_ACTUAL_DATE if populated, else Date when sending message	EPL_LOAD_START_ACTUAL_TIME if populated, else Time when sending message
GPS	Date when sending message	Time when sending message

2.2 ORD messages

An ORD message informs *CALIDUS* Portal that an order is created. It contains all the details of the order, but no Trip information.

An ORD message is sent when an order is created.

It is also sent when an order is updated through the Flat-file Auto-Import process.

It is also sent when an order is updated through the Job and Load Import Webservices

The data in the message sections is predominantly based on the following tables:

Tag	Notes
ORDER_HEADER	EPOD_JOB
ORDER_HEADER_ADDRESSES	EPOD_JOB_ADDRESS, EPOD_CUSTOMER
ORDER_DETAILS	EPOD_CONTAINER, EPOD_PRODUCT

The basic XML Layout is as follows:

```
<TRIP_HEADER>
    <TRIP_IDENTIFIER>0</TRIP_IDENTIFIER>
</TRIP_HEADER>
<STOPS>
    <STOP>
        <STOP_HEADER>
            <STOP_IDENTIFIER>0</STOP_IDENTIFIER>
            <STOP_SEQ>0</STOP_SEQ>
        </STOP_HEADER>
        <ORDERS>
            <ORDER>
                <ORDER_HEADER>
                    <ORDER_TRANSACTION_DATE>2012-12-20T00:00:00</ORDER_TRANSACTION_DATE>
                    <WMS_WAREHOUSE>EPL_SITE_REF</WMS_WAREHOUSE>
                    <WMS_OWNER>EPL_JOB_GROUP_REF</WMS_OWNER>
                    <SO_REF>EPL_CUST_REF</SO_REF>
                    <TMS_REF>EPL_JOB_CODE</TMS_REF>
                    <PO_REF>EPL_SO_NUMBER</PO_REF>
                    <BOOK_REF>EPL_EXT_REF</BOOK_REF>
                    <BOOK_DATE>2012-12-24T10:00:00</BOOK_DATE>
                    <ORDER_HEADER_ADDRESSES>
                        <ORDER_HEADER_ADDRESS>
                            <ADDRESS_TYPE>DEP</ADDRESS_TYPE>
                            <ADDRESS_ID>EPL_CUSTOMER_CODE</ADDRESS_ID>
                            <ADDRESS_NAME>EPL_NAME</ADDRESS_NAME>
                            <ADDRESS_LINE1>EPL_ADDR_LINE_1</ADDRESS_LINE1>
                            <ADDRESS_LINE2>EPL_ADDR_LINE_2</ADDRESS_LINE2>
                            <ADDRESS_TOWN>EPL_ADDR_LINE_3</ADDRESS_TOWN>
                            <ADDRESS_POSTCODE>EPL_POSTCODE</ADDRESS_POSTCODE>
                            <LOC_TIMEZONE>EPL_TIMEZONE</LOC_TIMEZONE>
                        </ORDER_HEADER_ADDRESS>
                        <ORDER_HEADER_ADDRESS>
                            <ADDRESS_TYPE>DEL</ADDRESS_TYPE>
                            <ADDRESS_ID>EPL_CUSTOMER_CODE</ADDRESS_ID>
                            <ADDRESS_NAME>EPL_NAME</ADDRESS_NAME>
                            <ADDRESS_LINE1>EPL_ADDR_LINE_1</ADDRESS_LINE1>
                            <ADDRESS_LINE2>EPL_ADDR_LINE_2</ADDRESS_LINE2>
                            <ADDRESS_TOWN>EPL_ADDR_LINE_3</ADDRESS_TOWN>
                            <ADDRESS_POSTCODE>EPL_POSTCODE</ADDRESS_POSTCODE>
                            <LOC_TIMEZONE>EPL_TIMEZONE</LOC_TIMEZONE>
                        </ORDER_HEADER_ADDRESS>
                    </ORDER_HEADER_ADDRESSES>
                    <ORDER_TYPE></ORDER_TYPE>
                    <TRACK_TO></TRACK_TO>
                    <CUSTOMER_ID>EPL_ACCOUNT</CUSTOMER_ID>
                    <ORDER_REF_1>EPL_SITE_ID</ORDER_REF_1>
                </ORDER_HEADER>
                <ORDER_DETAILS>
                    <ORDER_DETAIL>
                        <DETAIL_TYPE>D</DETAIL_TYPE>
                        <ITEM_IDENTIFIER>EPL_CONTAINER_ID</ITEM_IDENTIFIER>
                        <ITEM_DESCRIPTION>EPL_DESCRIPTION</ITEM_DESCRIPTION>
```


```
                    <ORDERED>1</ORDERED>
                    <TO_DELIVER>1</TO_DELIVER>
                </ORDER_DETAIL>
                <ORDER_DETAIL>
                    <DETAIL_TYPE>S</DETAIL_TYPE>
                    <ITEM_IDENTIFIER>EPL_PRODUCT_ID</ITEM_IDENTIFIER>
                    <ITEM_DESCRIPTION>EPL_DESCRIPTION</ITEM_DESCRIPTION>
                    <ORDERED>EPL_PRODUCT_QTY_ORDERED</ORDERED>
                    <TO_DELIVER>EPL_PRODUCT_QTY_PLANNED</TO_DELIVER>
                </ORDER_DETAIL>
            </ORDER_DETAILS>
        </ORDER>
    </ORDERS>
</STOP>
</STOPS>
```

Variable data for ORDER_HEADER:

Tag	MODE1 Notes	MODE2 Notes
ORDER_TRANSACTION_DATE	EPL_LAST_CHANGED_DATE/EPL_LAST_CHANGED_TIME in XSD format	As MODE1
WMS_WAREHOUSE	EPODSITE.EPL_TTM_XREF if present, else EPODSITE.EPL_SITE_ID	As MODE1
WMS_OWNER	EPL_OWNER_NAME if present, else EPODSITE.EPL_TTM_XREF if present, else EPODSITE.EPL_SITE_ID	As MODE1
SO_REF	EPL_CUST_REF if present, else EPL_JOB_CODE	EPL_EXT_REF
TMS_REF	EPL_JOB_CODE	As MODE1
PO_REF	EPL_SO_NUMBER	As MODE1
BOOK_REF	EPL_EXT_REF	EPL_CUST_REF
BOOK_DATE	EPL_START_PLANNED_DATE/EPL_START_PLANNED_TIME in XSD format	As MODE1
ORDER_TYPE	"C" if there is not a "DEL" address for the order (see below) else "O"	As MODE1
TRACK_TO	"COL" if there is not a "DEL" address for the order (see below) else "DEL"	As MODE1
CUSTOMER_ID	EPL_ACCOUNT if populated	As MODE1
ORDER_REF_1	EPL_SITE_ID	As MODE1

Note: The data sent will be based on MODE1 if the interface is not explicitly set to MODE2.

Note: If the system has determined the order to be a redelivery attempt (and is configured to do so), the SO Ref sent to TTM will be appended with "_R" and the redelivery count.

Two order header addresses will be built, one for DEP (the original collection location) and one for DEL (the ultimate delivery location).

For DEP addresses, the addresses against the jobs are used in this sequence:

- Use the Origin Job Address (type O) if this exists for any job for this Site, Job Code and Cust Ref .
- Use the Job Address of the first Collection Job for this Site, Job Code and Cust Ref if this exists.
- Use the Customer Address of the customer of the first Collection Job for this Site, Job Code and Cust Ref if this exists.
- If there is no collection job or no origin address, do not write this address.

For DEL addresses:

- Use the Final Destination Job Address (type F) if this exists on any job for this Site, Job Code and Cust Ref .
- Use the Job Address of the last Delivery Job if this exists for this Site, Job Code and Cust Ref .
- Use the Customer Address of the customer of the last Delivery Job if this exists for this Site, Job Code and Cust Ref .
- If there is no delivery job or no destination address, do not write this address.

Variable data for ORDER_ADDRESS:

Tag	EPOD_JOB_ADDRESS	EPOD_CUSTOMER

Tag	EPOD_JOB_ADDRESS	EPOD_CUSTOMER
ADDRESS_TYPE	DEP if EPL_JOB_TYPE = "O" or DEL if EPL_JOB_TYPE = "F"	DEP if this is from the first Collection, DEL if this is from the last Delivery.
ADDRESS_ID	EPL_ADDRESS_ID	EPL_CUSTOMER_CODE
ADDRESS_NAME	EPL_NAME	EPL_CUSTOMER_NAME
ADDRESS_LINE_1	EPL_ADDRESS_1	EPL_ADDRESS_1
ADDRESS_LINE_2	EPL_ADDRESS_2	EPL_ADDRESS_2
ADDRESS_TOWN	EPL_ADDRESS_3	EPL_ADDRESS_3
ADDRESS_POSTCODE	EPL_POSTCODE	EPL_POSTCODE
LOC_TIMEZONE	EPOD_JOB.EPL_TIMEZONE	EPOD_JOB.EPL_TIMEZONE

Note: If Timezone is omitted or blank, *CALIDUS* Portal assumes GMT.

Variable data for ORDER_DETAIL:

Tag	EPOD_CONTAINER	EPOD_PRODUCT
DETAIL_TYPE	"D"	"S"
ITEM_IDENTIFIER	EPL_CONTAINER_ID	EPL_PRODUCT_CODE
ITEM_DESCRIPTION	EPL_DESCRIPTION	EPL_DESCRIPTION
ORDERED	1	EPL_PRODUCT_QTY_ORDERED
TO_DELIVER	1	EPL_PRODUCT_QTY_PLANNED

2.3 TRP messages

A TRP message informs *CALIDUS* Portal that a Trip is created, showing all the stops on the trip and the basic information on the orders on the stops.

A TRP message is sent when:

- an order is created.
- an order is assigned to a load.
- an order is updated through the Flat-file Auto-Import process.
- an order is updated through the Job and Load Import Webservices.
- the load is deleted.

The data in the message sections is predominantly based on the following tables:

Tag	Notes
TRIP_HEADER	EPOD_LOAD
TRIP_DETAIL	EPOD_LOAD, EPOD_VEHICLE, EPOD_USER
STOP_HEADER	EPOD_JOB
STOP_DETAIL	EPOD_JOB, EPOD_JOB_ADDRESS, EPOD_CUSTOMER
ORDER_HEADER	EPOD_JOB

The basic XML Layout is as follows:

```
<TRIP_HEADER>
    <TRIP_IDENTIFIER>T</TRIP_IDENTIFIER>
    <TRIP_TRANSACTION_DATE>2012-12-20T00:00:00</TRIP_TRANSACTION_DATE>
    <TRIP_ID>EPL_LOAD_ID<TRIP_ID>
</TRIP_HEADER>
<TRIP_DETAIL>
    <HAULIER>EPODSITE.EPL_TTM_XREF</HAULIER>
    <TRACKING>N</TRACKING>
    <DRIVER>EPL_USER_ID</DRIVER>
    <DRIVER_NAME>EPODUSER.EPL_USER_NAME</DRIVER_NAME>
    <TRACTOR>EPODVEHICLE.EPL_VEHICLE_REG</TRACTOR>
    <COST_CENTRE>EPL_SITE_ID<COST_CENTRE>
    <TRIP_STATUS>PLANNED<TRIP_STATUS>
    <TRIP_REF></TRIP_REF>
    <TRIP_TRAILER_ID>EPL_VEHICLE_ID</TRIP_TRAILER_ID>
    <TRIP_TRAILER_TYPE></TRIP_TRAILER_TYPE>
    <TRIP_DISTANCE>EPL_LOAD_DISTANCE_PLANNED</TRIP_DISTANCE>
</TRIP_DETAIL>
<STOPS>
    <STOP>
        <STOP_HEADER>
            <STOP_IDENTIFIER>S</STOP_IDENTIFIER>
            <STOP_SEQ>EPL_SEQUENCE</STOP_SEQ>
        </STOP_HEADER>
        <STOP_DETAIL>
            <STOP_REF>EPL_JOB_TYPE</STOP_REF>
            <STOP_TYPE>PK/DL</STOP_TYPE>
            <STOP_LOCATION_TYPE>2</STOP_LOCATION_TYPE>
            <STOP_LOCATION_ID></STOP_LOCATION_ID>
            <STOP_LOCATION_NAME></STOP_LOCATION_NAME>
            <STOP_ADDR_LINE1></STOP_ADDR_LINE1>
            <STOP_ADDR_LINE2><STOP_ADDR_LINE2>
            <STOP_TOWN><STOP_TOWN>
            <STOP_POSTCODE><STOP_POSTCODE>
            <STOP_CONTACT_NAME><STOP_CONTACT_NAME>
            <STOP_CONTACT_PHONE><STOP_CONTACT_PHONE>
            <STOP_PLANNED_ARRIVAL_DATE>2012-12-20T00:00:00<STOP_PLANNED_ARRIVAL_DATE>
            <STOP_PLANNED_DEPARTURE_DATE>2012-12-20T00:00:00<STOP_PLANNED_DEPARTURE_DATE>
            <LOC_TIMEZONE>EPL_TIMEZONE</LOC_TIMEZONE>
        </STOP_DETAIL>
        <ORDERS>
            <ORDER>
                <ORDER_HEADER>
                    <ORDER_TRANSACTION_DATE>2012-12-20T00:00:00</ORDER_TRANSACTION_DATE>
                    <WMS_WAREHOUSE>EPL_SITE_REF</WMS_WAREHOUSE>
                    <WMS_OWNER>EPL_JOB_GROUP_REF</WMS_OWNER>
                    <SO_REF>EPL_CUST_REF</SO_REF>
                    <TMS_REF>EPL_JOB_CODE</TMS_REF>
```


```
                    <PO_REF>EPL_SO_NUMBER</PO_REF>
                    <BOOK_REF>EPL_EXT_REF</BOOK_REF>
                    <BOOK_DATE>2012-12-24T10:00:00</BOOK_DATE>
                </ORDER_HEADER>
            </ORDER>
        <ORDERS>
    <STOP>
<STOPS>
```

Variable data for TRIP_HEADER:

Tag	Notes
TRIP_TRANSACTION_DATE	EPL_LOAD_START_ACTUAL_DATE if populated, else Date when sending message
TRIP_ID	EPL_LOAD_ID

Variable data for TRIP_DETAIL:

Tag	Notes
HAULIER	EPODSITE.EPL_TTM_XREF if present, else EPODSITE.EPL_SITE_ID
DRIVER	EPL_USER_ID
DRIVER_NAME	EPODUSER.EPL_USER_NAME
TRACTOR	EPL_VEHICLE_ID
COST_CENTRE	EPL_SITE_ID
TRIP_TRAILER_ID	EPODVEHICLE.EPL_VEHICLE_REG
TRIP_DISTANCE	EPL_LOAD_DISTANCE_PLANNED
ROUTE_CODE	EPL_ROUTE_CODE

Variable data for STOP_HEADER:

Tag	Notes
STOP_SEQUENCE	EPL_TTM_STOP_NUMBER if configured, else EPL_SEQUENCE if populated, otherwise a counter incremented for each job on the trip.

Note: If configured, the Stop Sequence will be calculated to be in the same basic sequence that the jobs would appear on the mobile device, taking into account blank sequences (which will appear at the end), consolidations, the order in which jobs at the same location are to be completed, etc.

Variable data for STOP_DETAIL:

Tag	Notes
STOP_REF	EPL_JOB_TYPE
STOP_TYPE	"PK" if STOP_TYPE = "C" else "DL"
STOP_PLANNED_ARRIVAL_DATE	EPL_START_PLANNED_DATE/EPL_START_PLANNED_TIME in XML date format
STOP_PLANNED_DEPARTURE_DATE	EPL_END_PLANNED_DATE/EPL_END_PLANNED_TIME in XML date format. Only populated if there is an End Planned Date for the job
LOC_TIMEZONE	EPL_TIMEZONE

Note: If Timezone is omitted or blank, *CALIDUS* Portal assumes GMT.

Stop Location and Address fields in the STOP_DETAIL section are populated based on Job Address or Customer Address, depending on which exist, as follows:

Tag	EPOD_JOB_ADDRESS	EPOD_CUSTOMER
STOP_LOCATION_ID	EPL_ADDRESS_ID if populated, else EPOD_JOB.EPL_CUSTOMER_CODE	EPL_ADDRESS_ID_PREFIXED if populated, else EPOD_JOB.EPL_CUSTOMER_CODE
STOP_LOCATION_NAME	EPL_NAME if populated, else EPOD_CUSTOMER.EPL_CUSTOMER_NAME	EPL_CUSTOMER_NAME
STOP_ADDR_LINE1	EPL_ADDRESS_1	EPL_ADDRESS_1

Tag	EPOD_JOB_ADDRESS	EPOD_CUSTOMER
STOP_ADDR_LINE2	EPL_ADDRESS_2	EPL_ADDRESS_2
STOP_TOWN	EPL_ADDRESS_3	EPL_ADDRESS_3
STOP_POSTCODE	EPL_POSTCODE	EPL_POSTCODE
STOP_CONTACT_NAME	EPOD_JOB.EPL_CUST_SIGNATORY if populated else EPL_CONTACT	EPOD_JOB.EPL_CUST_SIGNATORY if populated else EPL_CONTACT
STOP_CONTACT_PHONE	EPL_TELEPHONE	EPL_TELEPHONE

Variable data for ORDER_HEADER:

Tag	MODE1 Notes	MODE2 Notes
ORDER_TRANSACTION_DATE	EPL_LAST_CHANGED_DATE/EPL_LAST_CHANGED_TIME in XSD format	As MODE1
WMS_WAREHOUSE	EPODSITE.EPL_TTM_XREF if present, else EPODSITE.EPL_SITE_ID	As MODE1
WMS_OWNER	EPL_OWNER_NAME if present, else EPODSITE.EPL_TTM_XREF if present, else EPODSITE.EPL_SITE_ID	As MODE1
SO_REF	EPL_CUST_REF if present, else EPL_JOB_CODE	EPL_EXT_REF
TMS_REF	EPL_JOB_CODE	As MODE1
PO_REF	EPL_SO_NUMBER	As MODE1
BOOK_REF	EPL_EXT_REF	EPL_CUST_REF
BOOK_DATE	EPL_START_PLANNED_DATE/EPL_START_PLANNED_TIME in XSD format	As MODE1
ORDER_TYPE	"C" if there is not a "DEL" address for the order (see below) else "O"	As MODE1
TRACK_TO	"COL" if there is not a "DEL" address for the order (see below) else "DEL"	As MODE1
CUSTOMER_ID	EPL_ACCOUNT if populated	As MODE1
ORDER_REF_1	EPL_SITE_ID	As MODE1

Note: The data sent will be based on MODE1 if the interface is not explicitly set to MODE2.

Note: If the system has determined the order to be a redelivery attempt (and is configured to do so), the SO Ref sent to TTM will be appended with "_R" and the redelivery count.

2.4 OIT messages

OIT messages signify that an order is in transit i.e. has been started on the mobile device. These messages are sent only when the user starts a job on the device.

The data in the message sections is predominantly based on the following tables:

Tag	Notes
TRIP_HEADER	EPOD_JOB, EPOD_AUDIT
TRIP_DETAIL	EPOD_AUDIT
STOP_HEADER	EPOD_JOB
STOP_DETAIL	EPOD_JOB, EPOD_JOB_ADDRESS, EPOD_CUSTOMER
ORDER_HEADER	EPOD_JOB
ORDER_HEADER_ADDRESSES	EPOD_JOB_ADDRESS, EPOD_CUSTOMER
ORDER_DETAILS	EPOD_CONTAINER, EPOD_PRODUCT

The basic XML Layout is as follows:

```
<TRIP_HEADER>
    <TRIP_IDENTIFIER>T</TRIP_IDENTIFIER>
    <TRIP_TRANSACTION_DATE>2012-12-24T10:00:00</TRIP_TRANSACTION_DATE>
    <TRIP_ID>EPL_LOAD_ID</TRIP_ID>
</TRIP_HEADER>
<TRIP_DETAIL>
    <HAULIER></HAULIER>
    <TRACTOR_LAT></TRACTOR_LAT>
    <TRACTOR_LON></TRACTOR_LON>
</TRIP_DETAIL>
<STOPS>
    <STOP>
        <STOP_HEADER>
        <STOP_HEADER>
            <STOP_IDENTIFIER>S</STOP_IDENTIFIER>
            <STOP_SEQ>EPL_SEQUENCE</STOP_SEQ>
        </STOP_HEADER>
        <STOP_DETAIL>
            <STOP_REF>EPL_JOB_TYPE</STOP_REF>
            <STOP_TYPE>PK/DL</STOP_TYPE>
            <STOP_LOCATION_TYPE>2</STOP_LOCATION_TYPE>
            <STOP_LOCATION_ID></STOP_LOCATION_ID>
            <STOP_LOCATION_NAME></STOP_LOCATION_NAME>
            <STOP_ADDR_LINE1></STOP_ADDR_LINE1>
            <STOP_ADDR_LINE2><STOP_ADDR_LINE2>
            <STOP_TOWN><STOP_TOWN>
            <STOP_POSTCODE><STOP_POSTCODE>
            <STOP_CONTACT_NAME><STOP_CONTACT_NAME>
            <STOP_CONTACT_PHONE><STOP_CONTACT_PHONE>
            <STOP_PLANNED_ARRIVAL_DATE>2012-12-20T00:00:00<STOP_PLANNED_ARRIVAL_DATE>
            <STOP_PLANNED_DEPARTURE_DATE>2012-12-20T00:00:00<STOP_PLANNED_DEPARTURE_DATE>
            <STOP_ACTUAL_ARRIVAL_DATE>2012-12-20T00:00:00<STOP_ACTUAL_ARRIVAL_DATE>
            <LOC_TIMEZONE>EPL_TIMEZONE</LOC_TIMEZONE>
        </STOP_DETAIL>
        <ORDERS>
            <ORDER>
                <ORDER_HEADER>
                    <ORDER_TRANSACTION_DATE>2012-12-20T00:00:00</ORDER_TRANSACTION_DATE>
                    <WMS_WAREHOUSE>EPL_SITE_REF</WMS_WAREHOUSE>
                    <WMS_OWNER>EPL_JOB_GROUP_REF</WMS_OWNER>
                    <SO_REF>EPL_CUST_REF</SO_REF>
                    <TMS_REF>EPL_JOB_CODE</TMS_REF>
                    <PO_REF>EPL_SO_NUMBER</PO_REF>
                    <BOOK_REF>EPL_EXT_REF</BOOK_REF>
                    <BOOK_DATE>2012-12-24T10:00:00</BOOK_DATE>
                    <ORDER_TRANSACTION_DATE>2012-12-24T10:00:00</ORDER_TRANSACTION_DATE>
                <ORDER_HEADER>
                <ORDER_DETAILS>
                    <ORDER_DETAIL>
                        <DETAIL_TYPE>D</DETAIL_TYPE>
                        <ITEM_IDENTIFIER>EPL_CONTAINER_ID</ITEM_IDENTIFIER>
                        <ITEM_DESCRIPTION>EPL_DESCRIPTION</ITEM_DESCRIPTION>
                        <ORDERED>1</ORDERED>
                        <TO_DELIVER>1</TO_DELIVER>
```


```
                    </ORDER_DETAIL>
                    <ORDER_DETAIL>
                        <DETAIL_TYPE>S</DETAIL_TYPE>
                        <ITEM_IDENTIFIER>EPL_PRODUCT_ID</ITEM_IDENTIFIER>
                        <ITEM_DESCRIPTION>EPL_DESCRIPTION</ITEM_DESCRIPTION>
                        <ORDERED>EPL_PRODUCT_QTY_ORDERED</ORDERED>
                        <TO_DELIVER>EPL_PRODUCT_QTY_PLANNED</TO_DELIVER>
                    </ORDER_DETAIL>
                </ORDER_DETAILS>
            </ORDER>
        </ORDERS>
    </STOP>
</STOPS>
```

Variable data for TRIP_HEADER:

Tag	Notes
TRIP_TRANSACTION_DATE	The date/time the Job Start was actioned, from EPOD_AUDIT.EPL_AUDIT_DATE/EPL_AUDIT_TIME
TRIP_ID	EPL_LOAD_ID

Variable data for TRIP_DETAIL:

Tag	Notes
HAULIER	EPODSITE.EPL_TTM_XREF if present, else EPODSITE.EPL_SITE_ID
TRACTOR_LAT	The latitude of where the job was started, extracted from EPOD_AUDIT.EPL_GPS_COORD.
TRACTOR_LON	The longitude of where the job was started, extracted from EPOD_AUDIT.EPL_GPS_COORD.

Variable data for STOP_HEADER:

Tag	Notes
STOP_SEQUENCE	EPL_TTM_STOP_NUMBER if configured, else EPL_SEQUENCE if populated, otherwise a counter incremented for each job on the trip.

Note: If configured, the Stop Sequence will be calculated to be in the same basic sequence that the jobs would appear on the mobile device, taking into account blank sequences (which will appear at the end), consolidations, the order in which jobs at the same location are to be completed, etc.

Variable data for STOP_DETAIL:

Tag	Notes
STOP_REF	EPL_JOB_TYPE
STOP_TYPE	"PK" if STOP_TYPE = "C" else "DL"
STOP_PLANNED_ARRIVAL_DATE	EPL_START_PLANNED_DATE/EPL_START_PLANNED_TIME in XML date format
STOP_PLANNED_DEPARTURE_DATE	EPL_END_PLANNED_DATE/EPL_END_PLANNED_TIME in XML date format. Only populated if there is an End Planned Date for the job
STOP_ACTUAL_ARRIVAL_DATE	EPL_ARRIVAL_DATE/EPL_ARRIVAL_TIME if populated, else EPL_END_ACTUAL_DATE/EPL_END_ACTUAL_TIME, in XML date format
LOC_TIMEZONE	EPL_TIMEZONE

Note: If Timezone is omitted or blank, *CALIDUS* Portal assumes GMT.

Stop Location and Address fields in the STOP_DETAIL section are populated based on Job Address or Customer Address, depending on which exist, as follows:

Tag	EPOD_JOB_ADDRESS	EPOD_CUSTOMER
STOP_LOCATION_ID	EPL_ADDRESS_ID if populated, else EPOD_JOB.EPL_CUSTOMER_CODE	EPL_ADDRESS_ID_PREFIXED if populated, else EPOD_JOB.EPL_CUSTOMER_CODE
STOP_LOCATION_NAME	EPL_NAME if populated, else EPOD_CUSTOMER.EPL_CUSTOMER_NAME	EPL_CUSTOMER_NAME
STOP_ADDR_LINE1	EPL_ADDRESS_1	EPL_ADDRESS_1

Tag	EPOD_JOB_ADDRESS	EPOD_CUSTOMER
STOP_ADDR_LINE2	EPL_ADDRESS_2	EPL_ADDRESS_2
STOP_TOWN	EPL_ADDRESS_3	EPL_ADDRESS_3
STOP_POSTCODE	EPL_POSTCODE	EPL_POSTCODE
STOP_CONTACT_NAME	EPOD_JOB.EPL_CUST_SIGNATORY if populated else EPL_CONTACT	EPOD_JOB.EPL_CUST_SIGNATORY if populated else EPL_CONTACT
STOP_CONTACT_PHONE	EPL_TELEPHONE	EPL_TELEPHONE

Variable data for ORDER_HEADER:

Tag	MODE1 Notes	MODE2 Notes
ORDER_TRANSACTION_DATE	EPL_LAST_CHANGED_DATE/EPL_LAST_CHANGED_TIME in XSD format	As MODE1
WMS_WAREHOUSE	EPODSITE.EPL_TTM_XREF if present, else EPODSITE.EPL_SITE_ID	As MODE1
WMS_OWNER	EPL_OWNER_NAME if present, else EPODSITE.EPL_TTM_XREF if present, else EPODSITE.EPL_SITE_ID	As MODE1
SO_REF	EPL_CUST_REF if present, else EPL_JOB_CODE	EPL_EXT_REF
TMS_REF	EPL_JOB_CODE	As MODE1
PO_REF	EPL_SO_NUMBER	As MODE1
BOOK_REF	EPL_EXT_REF	EPL_CUST_REF
BOOK_DATE	EPL_START_PLANNED_DATE/EPL_START_PLANNED_TIME in XSD format	As MODE1
ORDER_TYPE	"C" if there is not a "DEL" address for the order (see below) else "O"	As MODE1
TRACK_TO	"COL" if there is not a "DEL" address for the order (see below) else "DEL"	As MODE1
CUSTOMER_ID	EPL_ACCOUNT if populated	As MODE1
ORDER_REF_1	EPL_SITE_ID	As MODE1

Note: The data sent will be based on MODE1 if the interface is not explicitly set to MODE2.

Note: If the system has determined the order to be a redelivery attempt (and is configured to do so), the SO Ref sent to TTM will be appended with "_R" and the redelivery count.

Variable data for ORDER_DETAIL:

Tag	EPOD_CONTAINER	EPOD_PRODUCT
DETAIL_TYPE	"D"	"S"
ITEM_IDENTIFIER	EPL_CONTAINER_ID	EPL_PRODUCT_CODE
ITEM_DESCRIPTION	EPL_DESCRIPTION	EPL_DESCRIPTION
ORDERED	1	EPL_PRODUCT_QTY_ORDERED
TO_DELIVER	1	EPL_PRODUCT_QTY_PLANNED

2.5 ARR messages

ARR messages signify that the driver has arrived at the destination and is starting processing the job i.e. has been marked arrived on the mobile device. These messages are sent only when the user arrives a job on the device. For configurations where no Arrival functionality is specified, the OIT message serves to start the job.

The data in the message sections is predominantly based on the following tables:

Tag	Notes
TRIP_HEADER	EPOD_JOB, EPOD_AUDIT
TRIP_DETAIL	EPOD_AUDIT
STOP_HEADER	EPOD_JOB
STOP_DETAIL	EPOD_JOB, EPOD_JOB_ADDRESS, EPOD_CUSTOMER
ORDER_HEADER	EPOD_JOB
ORDER_HEADER_ADDRESSES	EPOD_JOB_ADDRESS, EPOD_CUSTOMER
ORDER_DETAILS	EPOD_CONTAINER, EPOD_PRODUCT

The basic XML Layout is as follows:

```
<TRIP_HEADER>
    <TRIP_IDENTIFIER>T</TRIP_IDENTIFIER>
    <TRIP_TRANSACTION_DATE>2012-12-24T10:00:00</TRIP_TRANSACTION_DATE>
    <TRIP_ID>EPL_LOAD_ID</TRIP_ID>
</TRIP_HEADER>
<TRIP_DETAIL>
    <HAULIER></HAULIER>
</TRIP_DETAIL>
<STOPS>
    <STOP>
        <STOP_HEADER>
        <STOP_HEADER>
            <STOP_IDENTIFIER>S</STOP_IDENTIFIER>
            <STOP_SEQ>EPL_SEQUENCE</STOP_SEQ>
        </STOP_HEADER>
        <STOP_DETAIL>
            <STOP_REF>EPL_JOB_TYPE</STOP_REF>
            <STOP_TYPE>PK/DL</STOP_TYPE>
            <STOP_LOCATION_TYPE>2</STOP_LOCATION_TYPE>
            <STOP_LOCATION_ID></STOP_LOCATION_ID>
            <STOP_LOCATION_NAME></STOP_LOCATION_NAME>
            <STOP_ADDR_LINE1></STOP_ADDR_LINE1>
            <STOP_ADDR_LINE2><STOP_ADDR_LINE2>
            <STOP_TOWN><STOP_TOWN>
            <STOP_POSTCODE><STOP_POSTCODE>
            <STOP_CONTACT_NAME><STOP_CONTACT_NAME>
            <STOP_CONTACT_PHONE><STOP_CONTACT_PHONE>
            <STOP_PLANNED_ARRIVAL_DATE>2012-12-20T00:00:00<STOP_PLANNED_ARRIVAL_DATE>
            <STOP_PLANNED_DEPARTURE_DATE>2012-12-20T00:00:00<STOP_PLANNED_DEPARTURE_DATE>
            <STOP_ACTUAL_ARRIVAL_DATE>2012-12-20T00:00:00<STOP_ACTUAL_ARRIVAL_DATE>
            <LOC_TIMEZONE>EPL_TIMEZONE</LOC_TIMEZONE>
        </STOP_DETAIL>
    </STOP>
</STOPS>
```

Variable data for TRIP_HEADER:

Tag	Notes
TRIP_TRANSACTION_DATE	The date/time the Job Arrive was actioned, from EPOD_JOB.EPL_ARRIVAL_DATE/EPOD_JOB.EPL_ARRIVAL_TIME
TRIP_ID	EPL_LOAD_ID

Variable data for TRIP_DETAIL:

Tag	Notes
HAULIER	EPODSITE.EPL_TTM_XREF if present, else EPODSITE.EPL_SITE_ID

Variable data for STOP_HEADER:

Tag	Notes
STOP_SEQUENCE	EPL_TTM_STOP_NUMBER if configured, else EPL_SEQUENCE if populated, otherwise a counter incremented for each job on the trip.

Note: If configured, the Stop Sequence will be calculated to be in the same basic sequence that the jobs would appear on the mobile device, taking into account blank sequences (which will appear at the end), consolidations, the order in which jobs at the same location are to be completed, etc.

Variable data for STOP_DETAIL:

Tag	Notes
STOP_REF	EPL_JOB_TYPE
STOP_TYPE	"PK" if STOP_TYPE = "C" else "DL"
STOP_PLANNED_ARRIVAL_DATE	EPL_START_PLANNED_DATE/EPL_START_PLANNED_TIME in XML date format
STOP_PLANNED_DEPARTURE_DATE	EPL_END_PLANNED_DATE/EPL_END_PLANNED_TIME in XML date format. Only populated if there is an End Planned Date for the job
STOP_ACTUAL_ARRIVAL_DATE	EPL_ARRIVAL_DATE/EPL_ARRIVAL_TIME if populated, else EPL_END_ACTUAL_DATE/EPL_END_ACTUAL_TIME, in XML date format
LOC_TIMEZONE	EPL_TIMEZONE

Note: If Timezone is omitted or blank, *CALIDUS* Portal assumes GMT.

Stop Location and Address fields in the STOP_DETAIL section are populated based on Job Address or Customer Address, depending on which exist, as follows:

Tag	EPOD_JOB_ADDRESS	EPOD_CUSTOMER
STOP_LOCATION_ID	EPL_ADDRESS_ID if populated, else EPOD_JOB.EPL_CUSTOMER_CODE	EPL_ADDRESS_ID_PREFIXED if populated, else EPOD_JOB.EPL_CUSTOMER_CODE
STOP_LOCATION_NAME	EPL_NAME if populated, else EPOD_CUSTOMER.EPL_CUSTOMER_NAME	EPL_CUSTOMER_NAME
STOP_ADDR_LINE1	EPL_ADDRESS_1	EPL_ADDRESS_1
STOP_ADDR_LINE2	EPL_ADDRESS_2	EPL_ADDRESS_2
STOP_TOWN	EPL_ADDRESS_3	EPL_ADDRESS_3
STOP_POSTCODE	EPL_POSTCODE	EPL_POSTCODE
STOP_CONTACT_NAME	EPOD_JOB.EPL_CUST_SIGNATORY if populated else EPL_CONTACT	EPOD_JOB.EPL_CUST_SIGNATORY if populated else EPL_CONTACT
STOP_CONTACT_PHONE	EPL_TELEPHONE	EPL_TELEPHONE

2.6 COL messages

COL messages signify that an collection order has been completed. These messages are sent only when the job is marked as completed, normally through the Mobile Device completing the job.

The data in the message sections is predominantly based on the following tables:

Tag	Notes
TRIP_HEADER	EPOD_JOB
TRIP_DETAIL	EPOD_AUDIT
STOP_HEADER	EPOD_JOB
STOP_DETAIL	EPOD_JOB, EPOD_JOB_ADDRESS, EPOD_CUSTOMER
ORDER_HEADER	EPOD_JOB
ORDER_HEADER_ADDRESSES	EPOD_JOB_ADDRESS, EPOD_CUSTOMER
ORDER_DETAILS	EPOD_CONTAINER, EPOD_PRODUCT

The basic XML Layout is as follows:

```
<TRIP_HEADER>
    <TRIP_IDENTIFIER>T</TRIP_IDENTIFIER>
    <TRIP_TRANSACTION_DATE>2012-12-24T10:00:00</TRIP_TRANSACTION_DATE>
    <TRIP_ID>EPL_LOAD_ID</TRIP_ID>
</TRIP_HEADER>
<TRIP_DETAIL>
    <HAULIER></HAULIER>
    <TRACTOR_LAT></TRACTOR_LAT>
    <TRACTOR_LON></TRACTOR_LON>
</TRIP_DETAIL>
<STOPS>
    <STOP>
        <STOP_HEADER>
        <STOP_HEADER>
            <STOP_IDENTIFIER>S</STOP_IDENTIFIER>
            <STOP_SEQ>EPL_SEQUENCE</STOP_SEQ>
        </STOP_HEADER>
        <STOP_DETAIL>
            <STOP_REF>EPL_JOB_TYPE</STOP_REF>
            <STOP_TYPE>PK/DL</STOP_TYPE>
            <STOP_LOCATION_TYPE>2</STOP_LOCATION_TYPE>
            <STOP_LOCATION_ID></STOP_LOCATION_ID>
            <STOP_LOCATION_NAME></STOP_LOCATION_NAME>
            <STOP_ADDR_LINE1></STOP_ADDR_LINE1>
            <STOP_ADDR_LINE2><STOP_ADDR_LINE2>
            <STOP_TOWN><STOP_TOWN>
            <STOP_POSTCODE><STOP_POSTCODE>
            <STOP_CONTACT_NAME><STOP_CONTACT_NAME>
            <STOP_CONTACT_PHONE><STOP_CONTACT_PHONE>
            <STOP_PLANNED_ARRIVAL_DATE>2012-12-20T00:00:00<STOP_PLANNED_ARRIVAL_DATE>
            <STOP_PLANNED_DEPARTURE_DATE>2012-12-20T00:00:00<STOP_PLANNED_DEPARTURE_DATE>
            <STOP_ACTUAL_ARRIVAL_DATE>2012-12-20T00:00:00<STOP_ACTUAL_ARRIVAL_DATE>
            <LOC_TIMEZONE>EPL_TIMEZONE</LOC_TIMEZONE>
        </STOP_DETAIL>
        <STOP_SIGNATURE>
            <SIGNATURE>EPL_JOB_SIGNATURE</SIGNATURE>
            <SIGNATORY>EPL_CUST_SIGNATORY</SIGNATORY>
        </STOP_SIGNATURE>
        <ORDERS>
            <ORDER>
                <ORDER_HEADER>
                    <ORDER_TRANSACTION_DATE>2012-12-20T00:00:00</ORDER_TRANSACTION_DATE>
                    <WMS_WAREHOUSE>EPL_SITE_REF</WMS_WAREHOUSE>
                    <WMS_OWNER>EPL_JOB_GROUP_REF</WMS_OWNER>
                    <SO_REF>EPL_CUST_REF</SO_REF>
                    <TMS_REF>EPL_JOB_CODE</TMS_REF>
                    <PO_REF>EPL_SO_NUMBER</PO_REF>
                    <BOOK_REF>EPL_EXT_REF</BOOK_REF>
                    <BOOK_DATE>2012-12-24T10:00:00</BOOK_DATE>
                    <ORDER_TRANSACTION_DATE>2012-12-24T10:00:00</ORDER_TRANSACTION_DATE>

                <ORDER_HEADER>
                <ORDER_DETAILS>
                    <ORDER_DETAIL>
```


```
                    <DETAIL_TYPE>D</DETAIL_TYPE>
                    <ITEM_IDENTIFIER>EPL_CONTAINER_ID</ITEM_IDENTIFIER>
                    <ITEM_DESCRIPTION>EPL_DESCRIPTION</ITEM_DESCRIPTION>
                    <ORDERED>1</ORDERED>
                    <TO_DELIVER>1</TO_DELIVER>
                    <DELIVERED></DELIVERED>
                    <REASON_CODES>
                        <REASON_CODE>
                            <RC_CODE>EPL_REASON_CODE</RC_CODE>
                            <RC_DESCRIPTION>EPOD_REASON_CODE.EPL_DESCRIPTION</RC_DESCRIPTION>
                            <RC_COMMENT>EPL_CUST_COMMENTS</RC_COMMENT>
                            <RC_TYPE>DEL</RC_TYPE>
                        </REASON_CODE>
                    </REASON_CODES>
                </ORDER_DETAIL>
                <ORDER_DETAIL>
                    <DETAIL_TYPE>S</DETAIL_TYPE>
                    <ITEM_IDENTIFIER>EPL_PRODUCT_ID</ITEM_IDENTIFIER>
                    <ITEM_DESCRIPTION>EPL_DESCRIPTION</ITEM_DESCRIPTION>
                    <ORDERED>EPL_PRODUCT_QTY_ORDERED</ORDERED>
                    <TO_DELIVER>EPL_PRODUCT_QTY_PLANNED</TO_DELIVER>
                    <DELIVERED>EPL_PRODUCT_QTY_ACTUAL</DELIVERED>
                    <REASON_CODES>
                        <REASON_CODE>
                            <RC_CODE>EPL_REASON_CODE</RC_CODE>
                            <RC_DESCRIPTION>EPOD_REASON_CODE.EPL_DESCRIPTION</RC_DESCRIPTION>
                            <RC_TYPE>DEL</RC_TYPE>
                        </REASON_CODE>
                    </REASON_CODES>
                </ORDER_DETAIL>
            </ORDER_DETAILS>
        </ORDER>
    </ORDERS>
</STOP>
</STOPS>
```

Variable data for TRIP_HEADER:

Tag	Notes
TRIP_TRANSACTION_DATE	The date/time the Job was completed, from EPOD_JOB.EPL_ACTUAL_END_DATE/EPL_ACTUAL_END_TIME, if populated, else the time the message is sent, in XSD Date format.
TRIP_ID	EPL_LOAD_ID

Variable data for TRIP_DETAIL:

Tag	Notes
HAULIER	EPODSITE.EPL_TTM_XREF if present, else EPODSITE.EPL_SITE_ID
TRACTOR_LAT	The latitude of where the job was started, extracted from EPOD_AUDIT.EPL_GPS_COORD, if populated, else 0.
TRACTOR_LON	The longitude of where the job was started, extracted from EPOD_AUDIT.EPL_GPS_COORD, if populated, else 0.

Variable data for STOP_HEADER:

Tag	Notes
STOP_SEQUENCE	EPL_TTM_STOP_NUMBER if configured, else EPL_SEQUENCE if populated, otherwise a counter incremented for each job on the trip.

Note: If configured, the Stop Sequence will be calculated to be in the same basic sequence that the jobs would appear on the mobile device, taking into account blank sequences (which will appear at the end), consolidations, the order in which jobs at the same location are to be completed, etc.

Variable data for STOP_DETAIL:

Tag	Notes
STOP_REF	EPL_JOB_TYPE
STOP_TYPE	"PK" if STOP_TYPE = "C" else "DL"

Tag	Notes
STOP_PLANNED_ARRIVAL_DATE	EPL_START_PLANNED_DATE/EPL_START_PLANNED_TIME in XML date format
STOP_PLANNED_DEPARTURE_DATE	EPL_END_PLANNED_DATE/EPL_END_PLANNED_TIME in XML date format. Only populated if there is an End Planned Date for the job
STOP_ACTUAL_ARRIVAL_DATE	EPL_ARRIVAL_DATE/EPL_ARRIVAL_TIME if populated, else EPL_END_ACTUAL_DATE/EPL_END_ACTUAL_TIME, in XML date format
LOC_TIMEZONE	EPL_TIMEZONE

Note: If Timezone is omitted or blank, *CALIDUS* Portal assumes GMT.

Stop Location and Address fields in the STOP_DETAIL section are populated based on Job Address or Customer Address, depending on which exist, as follows:

Tag	EPOD_JOB_ADDRESS	EPOD_CUSTOMER
STOP_LOCATION_ID	EPL_ADDRESS_ID if populated, else EPOD_JOB.EPL_CUSTOMER_CODE	EPL_ADDRESS_ID_PREFIXED if populated, else EPOD_JOB.EPL_CUSTOMER_CODE
STOP_LOCATION_NAME	EPL_NAME if populated, else EPOD_CUSTOMER.EPL_CUSTOMER_NAME	EPL_CUSTOMER_NAME
STOP_ADDR_LINE1	EPL_ADDRESS_1	EPL_ADDRESS_1
STOP_ADDR_LINE2	EPL_ADDRESS_2	EPL_ADDRESS_2
STOP_TOWN	EPL_ADDRESS_3	EPL_ADDRESS_3
STOP_POSTCODE	EPL_POSTCODE	EPL_POSTCODE
STOP_CONTACT_NAME	EPOD_JOB.EPL_CUST_SIGNATORY if populated else EPL_CONTACT	EPOD_JOB.EPL_CUST_SIGNATORY if populated else EPL_CONTACT
STOP_CONTACT_PHONE	EPL_TELEPHONE	EPL_TELEPHONE

Variable data for ORDER_HEADER:

Tag	MODE1 Notes	MODE2 Notes
ORDER_TRANSACTION_DATE	EPL_LAST_CHANGED_DATE/EPL_LAST_CHANGED_TIME in XSD format	As MODE1
WMS_WAREHOUSE	EPODSITE.EPL_TTM_XREF if present, else EPODSITE.EPL_SITE_ID	As MODE1
WMS_OWNER	EPL_OWNER_NAME if present, else EPODSITE.EPL_TTM_XREF if present, else EPODSITE.EPL_SITE_ID	As MODE1
SO_REF	EPL_CUST_REF if present, else EPL_JOB_CODE	EPL_EXT_REF
TMS_REF	EPL_JOB_CODE	As MODE1
PO_REF	EPL_SO_NUMBER	As MODE1
BOOK_REF	EPL_EXT_REF	EPL_CUST_REF
BOOK_DATE	EPL_START_PLANNED_DATE/EPL_START_PLANNED_TIME in XSD format	As MODE1
ORDER_TYPE	"C" if there is not a "DEL" address for the order (see below) else "O"	As MODE1
TRACK_TO	"COL" if there is not a "DEL" address for the order (see below) else "DEL"	As MODE1
CUSTOMER_ID	EPL_ACCOUNT if populated	As MODE1
ORDER_REF_1	EPL_SITE_ID	As MODE1

Note: The data sent will be based on MODE1 if the interface is not explicitly set to MODE2.

Note: If the system has determined the order to be a redelivery attempt (and is configured to do so), the SO Ref sent to TTM will be appended with "_R" and the redelivery count.

Variable data for ORDER_DETAIL:

Tag	EPOD_CONTAINER	EPOD_PRODUCT
DETAIL_TYPE	"D"	"S"
ITEM_IDENTIFIER	EPL_CONTAINER_ID	EPL_PRODUCT_CODE
ITEM_DESCRIPTION	EPL_DESCRIPTION	EPL_DESCRIPTION

Tag	EPOD_CONTAINER	EPOD_PRODUCT
ORDERED	1	EPL_PRODUCT_QTY_ORDERED
TO_DELIVER	1	EPL_PRODUCT_QTY_PLANNED
DELIVERED	1 if delivered (EPL_STATUS = "C") or 0 if not delivered (EPL_STATUS = "X")	EPL_PRODUCT_QTY_ACTUAL

A REASON_CODES section will only be created if the detail line in question (EPOD_CONTAINER or EPOD_PRODUCT) has a reason code or clause comment against it.

Variable data for REASON_CODE:

Tag	Reason Code	Clause Comment (For Containers only)
RC_CODE	EPL_REASON_CODE	"_CLAUSED_"
RC_DESCRIPTION	EPOD_REASON.EPL_DESCRIPTION	"Claused Delivery"
RC_COMMMENT	Tag not produced	EPOD_CONTAINER.EPL_CUST_COMMENT

2.7 CAN messages

CAN messages signify that a job has been cancelled. These messages are sent only when the job is marked as cancelled, through the Mobile Device completing the job or through the Admin console.

The data in the message sections is predominantly based on the following tables:

Tag	Notes
TRIP_HEADER	EPOD_JOB
STOP_HEADER	EPOD_JOB
STOP_DETAIL	EPOD_JOB, EPOD_JOB_ADDRESS, EPOD_CUSTOMER
ORDER_HEADER	EPOD_JOB
ORDER_HEADER_ADDRESSES	EPOD_JOB_ADDRESS, EPOD_CUSTOMER
ORDER_DETAILS	EPOD_CONTAINER, EPOD_PRODUCT
ORDER_REASON_CODES	EPOD_JOB, EPOD_REASON_CODE

The basic XML Layout is as follows:

```
<TRIP_HEADER>
    <TRIP_IDENTIFIER>T</TRIP_IDENTIFIER>
    <TRIP_TRANSACTION_DATE>2012-12-24T10:00:00</TRIP_TRANSACTION_DATE>
    <TRIP_ID>EPL_LOAD_ID</TRIP_ID>
</TRIP_HEADER>
<STOPS>
    <STOP>
        <STOP_HEADER>
        <STOP_HEADER>
            <STOP_IDENTIFIER>O</STOP_IDENTIFIER>
            <STOP_SEQ>EPL_SEQUENCE</STOP_SEQ>
        </STOP_HEADER>
        <STOP_DETAIL>
            <STOP_REF>EPL_JOB_TYPE</STOP_REF>
            <STOP_TYPE>PK/DL</STOP_TYPE>
            <STOP_LOCATION_TYPE>2</STOP_LOCATION_TYPE>
            <STOP_LOCATION_ID></STOP_LOCATION_ID>
            <STOP_LOCATION_NAME></STOP_LOCATION_NAME>
            <STOP_ADDR_LINE1></STOP_ADDR_LINE1>
            <STOP_ADDR_LINE2><STOP_ADDR_LINE2>
            <STOP_TOWN><STOP_TOWN>
            <STOP_POSTCODE><STOP_POSTCODE>
            <STOP_CONTACT_NAME><STOP_CONTACT_NAME>
            <STOP_CONTACT_PHONE><STOP_CONTACT_PHONE>
            <STOP_PLANNED_ARRIVAL_DATE>2012-12-20T00:00:00<STOP_PLANNED_ARRIVAL_DATE>
            <STOP_PLANNED_DEPARTURE_DATE>2012-12-20T00:00:00<STOP_PLANNED_DEPARTURE_DATE>
            <LOC_TIMEZONE>EPL_TIMEZONE</LOC_TIMEZONE>
        </STOP_DETAIL>
        <ORDERS>
            <ORDER>
                <ORDER_HEADER>
                    <ORDER_TRANSACTION_DATE>2012-12-20T00:00:00</ORDER_TRANSACTION_DATE>
                    <WMS_WAREHOUSE>EPL_SITE_REF</WMS_WAREHOUSE>
                    <WMS_OWNER>EPL_JOB_GROUP_REF</WMS_OWNER>
                    <SO_REF>EPL_CUST_REF</SO_REF>
                    <TMS_REF>EPL_JOB_CODE</TMS_REF>
                    <PO_REF>EPL_SO_NUMBER</PO_REF>
                    <BOOK_REF>EPL_EXT_REF</BOOK_REF>
                    <BOOK_DATE>2012-12-24T10:00:00</BOOK_DATE>
                    <ORDER_TRANSACTION_DATE>2012-12-24T10:00:00</ORDER_TRANSACTION_DATE>

                <ORDER_HEADER>
                <ORDER_DETAILS>
                    <ORDER_DETAIL>
                        <DETAIL_TYPE>D</DETAIL_TYPE>
                        <ITEM_IDENTIFIER>EPL_CONTAINER_ID</ITEM_IDENTIFIER>
                        <ITEM_DESCRIPTION>EPL_DESCRIPTION</ITEM_DESCRIPTION>
                        <ORDERED>1</ORDERED>
                        <TO_DELIVER>1</TO_DELIVER>
                        <DELIVERED></DELIVERED>
                        <REASON_CODES>
                            <REASON_CODE>
                                <RC_CODE>EPL_REASON_CODE</RC_CODE>
                                <RC_DESCRIPTION>EPOD_REASON_CODE.EPL_DESCRIPTION</RC_DESCRIPTION>
```


```
                                <RC_COMMENT>EPL_CUST_COMMENTS</RC_COMMENT>
                                <RC_TYPE>DEL</RC_TYPE>
                            </REASON_CODE>
                        </REASON_CODES>
                    </ORDER_DETAIL>
                    <ORDER_DETAIL>
                        <DETAIL_TYPE>S</DETAIL_TYPE>
                        <ITEM_IDENTIFIER>EPL_PRODUCT_ID</ITEM_IDENTIFIER>
                        <ITEM_DESCRIPTION>EPL_DESCRIPTION</ITEM_DESCRIPTION>
                        <ORDERED>EPL_PRODUCT_QTY_ORDERED</ORDERED>
                        <TO_DELIVER>EPL_PRODUCT_QTY_PLANNED</TO_DELIVER>
                        <DELIVERED>EPL_PRODUCT_QTY_ACTUAL</DELIVERED>
                        <REASON_CODES>
                            <REASON_CODE>
                                <RC_CODE>EPL_REASON_CODE</RC_CODE>
                                <RC_DESCRIPTION>EPOD_REASON_CODE.EPL_DESCRIPTION</RC_DESCRIPTION>
                                <RC_TYPE>DEL</RC_TYPE>
                            </REASON_CODE>
                        </REASON_CODES>
                    </ORDER_DETAIL>
                </ORDER_DETAILS>
                <ORDER_REASON_CODES>
                    <ORDER_REASON_CODE>
                        <RC_TYPE>DEL</RC_TYPE>
                        <RC_CODE>EPL_REASON_CODE</RC_CODE>
                        <RC_DESCRIPTION>EPOD_REASON_CODE.EPL_DESCRIPTION</RC_DESCRIPTION>
                    </ORDER_REASON_CODE>
                </ORDER_REASON_CODES>
            </ORDER>
        </ORDERS>
    </STOP>
</STOPS>
```

Variable data for TRIP_HEADER:

Tag	Notes
TRIP_TRANSACTION_DATE	The date/time the Job was cancelled, from EPOD_JOB.EPL_ACTUAL_END_DATE/EPL_ACTUAL_END_TIME, if populated, else the time the message is sent, in XSD Date format.
TRIP_ID	EPL_LOAD_ID

Variable data for STOP_HEADER:

Tag	Notes
STOP_SEQUENCE	EPL_TTM_STOP_NUMBER if configured, else EPL_SEQUENCE if populated, otherwise a counter incremented for each job on the trip.

Note: If configured, the Stop Sequence will be calculated to be in the same basic sequence that the jobs would appear on the mobile device, taking into account blank sequences (which will appear at the end), consolidations, the order in which jobs at the same location are to be completed, etc.

Variable data for STOP_DETAIL:

Tag	Notes
STOP_REF	EPL_JOB_TYPE
STOP_TYPE	"PK" if STOP_TYPE = "C" else "DL"
STOP_PLANNED_ARRIVAL_DATE	EPL_START_PLANNED_DATE/EPL_START_PLANNED_TIME in XML date format
STOP_PLANNED_DEPARTURE_DATE	EPL_END_PLANNED_DATE/EPL_END_PLANNED_TIME in XML date format. Only populated if there is an End Planned Date for the job
STOP_ACTUAL_ARRIVAL_DATE	EPL_ARRIVAL_DATE/EPL_ARRIVAL_TIME if populated, else EPL_START_ACTUAL_DATE/EPL_START_ACTUAL_TIME, in XML date format
LOC_TIMEZONE	EPL_TIMEZONE

Note: If Timezone is omitted or blank, *CALIDUS* Portal assumes GMT.

Stop Location and Address fields in the STOP_DETAIL section are populated based on Job Address or Customer Address, depending on which exist, as follows:

Tag	EPOD_JOB_ADDRESS	EPOD_CUSTOMER
STOP_LOCATION_ID	EPL_ADDRESS_ID if populated, else EPOD_JOB.EPL_CUSTOMER_CODE	EPL_ADDRESS_ID_PREFIXED if populated, else EPOD_JOB.EPL_CUSTOMER_CODE
STOP_LOCATION_NAME	EPL_NAME if populated, else EPOD_CUSTOMER.EPL_CUSTOMER_NAME	EPL_CUSTOMER_NAME
STOP_ADDR_LINE1	EPL_ADDRESS_1	EPL_ADDRESS_1
STOP_ADDR_LINE2	EPL_ADDRESS_2	EPL_ADDRESS_2
STOP_TOWN	EPL_ADDRESS_3	EPL_ADDRESS_3
STOP_POSTCODE	EPL_POSTCODE	EPL_POSTCODE
STOP_CONTACT_NAME	EPOD_JOB.EPL_CUST_SIGNATORY if populated else EPL_CONTACT	EPOD_JOB.EPL_CUST_SIGNATORY if populated else EPL_CONTACT
STOP_CONTACT_PHONE	EPL_TELEPHONE	EPL_TELEPHONE

Variable data for ORDER_HEADER:

Tag	MODE1 Notes	MODE2 Notes
ORDER_TRANSACTION_DATE	EPL_LAST_CHANGED_DATE/EPL_LAST_CHANGED_TIME in XSD format	As MODE1
WMS_WAREHOUSE	EPODSITE.EPL_TTM_XREF if present, else EPODSITE.EPL_SITE_ID	As MODE1
WMS_OWNER	EPL_OWNER_NAME if present, else EPODSITE.EPL_TTM_XREF if present, else EPODSITE.EPL_SITE_ID	As MODE1
SO_REF	EPL_CUST_REF if present, else EPL_JOB_CODE	EPL_EXT_REF
TMS_REF	EPL_JOB_CODE	As MODE1
PO_REF	EPL_SO_NUMBER	As MODE1
BOOK_REF	EPL_EXT_REF	EPL_CUST_REF
BOOK_DATE	EPL_START_PLANNED_DATE/EPL_START_PLANNED_TIME in XSD format	As MODE1
ORDER_TYPE	"C" if there is not a "DEL" address for the order (see below) else "O"	As MODE1
TRACK_TO	"COL" if there is not a "DEL" address for the order (see below) else "DEL"	As MODE1
CUSTOMER_ID	EPL_ACCOUNT if populated	As MODE1
ORDER_REF_1	EPL_SITE_ID	As MODE1

Note: The data sent will be based on MODE1 if the interface is not explicitly set to MODE2.

Note: If the system has determined the order to be a redelivery attempt (and is configured to do so), the SO Ref sent to TTM will be appended with "_R" and the redelivery count.

Variable data for ORDER_DETAIL:

Tag	EPOD_CONTAINER	EPOD_PRODUCT
DETAIL_TYPE	"D"	"S"
ITEM_IDENTIFIER	EPL_CONTAINER_ID	EPL_PRODUCT_CODE
ITEM_DESCRIPTION	EPL_DESCRIPTION	EPL_DESCRIPTION
ORDERED	1	EPL_PRODUCT_QTY_ORDERED
TO_DELIVER	1	EPL_PRODUCT_QTY_PLANNED
DELIVERED	1 if delivered (EPL_STATUS = "C") or 0 if not delivered (EPL_STATUS = "X")	EPL_PRODUCT_QTY_ACTUAL

A REASON_CODES section will only be created if the detail line in question (EPOD_CONTAINER or EPOD_PRODUCT) has a reason code or clause comment against it.

Variable data for REASON_CODE:

Tag	Reason Code	Clause Comment (For Containers only)
RC_CODE	EPL_REASON_CODE	"_CLAUSED_"
RC_DESCRIPTION	EPOD_REASON.EPL_DESCRIPTION	"Claused Delivery"
RC_COMMMENT	Tag not produced	EPOD_CONTAINER.EPL_CUST_COMMENT

Variable data for ORDER_REASON_CODE:

Tag	Reason Code
RC_CODE	EPL_REASON_CODE
RC_DESCRIPTION	EPOD_REASON_CODE.EPL_DESCRIPTION

2.8 DEL messages

DEL messages signify that a delivery order has been completed. These messages are sent only when the job is marked as completed, normally through the Mobile Device completing the job.

The data in the message sections is predominantly based on the following tables:

Tag	Notes
TRIP_HEADER	EPOD_JOB
TRIP_DETAIL	EPOD_AUDIT
STOP_HEADER	EPOD_JOB
STOP_DETAIL	EPOD_JOB, EPOD_JOB_ADDRESS, EPOD_CUSTOMER
ORDER_HEADER	EPOD_JOB
ORDER_HEADER_ADDRESSES	EPOD_JOB_ADDRESS, EPOD_CUSTOMER
ORDER_DETAILS	EPOD_CONTAINER, EPOD_PRODUCT, EPOD_REASON_CODE

The basic XML Layout is as follows:

```
<TRIP_HEADER>
    <TRIP_IDENTIFIER>T</TRIP_IDENTIFIER>
    <TRIP_TRANSACTION_DATE>2012-12-24T10:00:00</TRIP_TRANSACTION_DATE>
    <TRIP_ID>EPL_LOAD_ID</TRIP_ID>
</TRIP_HEADER>
<TRIP_DETAIL>
    <HAULIER></HAULIER>
    <TRACTOR_LAT></TRACTOR_LAT>
    <TRACTOR_LON></TRACTOR_LON>
</TRIP_DETAIL>
<STOPS>
    <STOP>
        <STOP_HEADER>
        <STOP_HEADER>
            <STOP_IDENTIFIER>S</STOP_IDENTIFIER>
            <STOP_SEQ>EPL_SEQUENCE</STOP_SEQ>
        </STOP_HEADER>
        <STOP_DETAIL>
            <STOP_REF>EPL_JOB_TYPE</STOP_REF>
            <STOP_TYPE>PK/DL</STOP_TYPE>
            <STOP_LOCATION_TYPE>2</STOP_LOCATION_TYPE>
            <STOP_LOCATION_ID></STOP_LOCATION_ID>
            <STOP_LOCATION_NAME></STOP_LOCATION_NAME>
            <STOP_ADDR_LINE1></STOP_ADDR_LINE1>
            <STOP_ADDR_LINE2><STOP_ADDR_LINE2>
            <STOP_TOWN><STOP_TOWN>
            <STOP_POSTCODE><STOP_POSTCODE>
            <STOP_CONTACT_NAME><STOP_CONTACT_NAME>
            <STOP_CONTACT_PHONE><STOP_CONTACT_PHONE>
            <STOP_PLANNED_ARRIVAL_DATE>2012-12-20T00:00:00<STOP_PLANNED_ARRIVAL_DATE>
            <STOP_PLANNED_DEPARTURE_DATE>2012-12-20T00:00:00<STOP_PLANNED_DEPARTURE_DATE>
            <STOP_ACTUAL_ARRIVAL_DATE>2012-12-20T00:00:00<STOP_ACTUAL_ARRIVAL_DATE>
            <LOC_TIMEZONE>EPL_TIMEZONE</LOC_TIMEZONE>
        </STOP_DETAIL>
        <STOP_SIGNATURE>
            <SIGNATURE>EPL_JOB_SIGNATURE</SIGNATURE>
            <SIGNATORY>EPL_CUST_SIGNATORY</SIGNATORY>
        </STOP_SIGNATURE>
        <ORDERS>
            <ORDER>
                <ORDER_HEADER>
                    <ORDER_TRANSACTION_DATE>2012-12-20T00:00:00</ORDER_TRANSACTION_DATE>
                    <WMS_WAREHOUSE>EPL_SITE_REF</WMS_WAREHOUSE>
                    <WMS_OWNER>EPL_JOB_GROUP_REF</WMS_OWNER>
                    <SO_REF>EPL_CUST_REF</SO_REF>
                    <TMS_REF>EPL_JOB_CODE</TMS_REF>
                    <PO_REF>EPL_SO_NUMBER</PO_REF>
                    <BOOK_REF>EPL_EXT_REF</BOOK_REF>
                    <BOOK_DATE>2012-12-24T10:00:00</BOOK_DATE>
                    <ORDER_TRANSACTION_DATE>2012-12-24T10:00:00</ORDER_TRANSACTION_DATE>

                <ORDER_HEADER>
                <ORDER_DETAILS>
                    <ORDER_DETAIL>
```


```
                    <DETAIL_TYPE>D</DETAIL_TYPE>
                    <ITEM_IDENTIFIER>EPL_CONTAINER_ID</ITEM_IDENTIFIER>
                    <ITEM_DESCRIPTION>EPL_DESCRIPTION</ITEM_DESCRIPTION>
                    <ORDERED>1</ORDERED>
                    <TO_DELIVER>1</TO_DELIVER>
                    <DELIVERED></DELIVERED>
                    <REASON_CODES>
                        <REASON_CODE>
                            <RC_CODE>EPL_REASON_CODE</RC_CODE>
                            <RC_DESCRIPTION>EPOD_REASON_CODE.EPL_DESCRIPTION</RC_DESCRIPTION>
                            <RC_COMMMENT>EPL_CUST_COMMENT</RC_COMMMENT>
                            <RC_TYPE>DEL</RC_TYPE>
                        </REASON_CODE>
                    </REASON_CODES>
                </ORDER_DETAIL>
                <ORDER_DETAIL>
                    <DETAIL_TYPE>S</DETAIL_TYPE>
                    <ITEM_IDENTIFIER>EPL_PRODUCT_ID</ITEM_IDENTIFIER>
                    <ITEM_DESCRIPTION>EPL_DESCRIPTION</ITEM_DESCRIPTION>
                    <ORDERED>EPL_PRODUCT_QTY_ORDERED</ORDERED>
                    <TO_DELIVER>EPL_PRODUCT_QTY_PLANNED</TO_DELIVER>
                    <DELIVERED>EPL_PRODUCT_QTY_ACTUAL</DELIVERED>
                    <REASON_CODES>
                        <REASON_CODE>
                            <RC_CODE>EPL_REASON_CODE</RC_CODE>
                            <RC_DESCRIPTION>EPOD_REASON_CODE.EPL_DESCRIPTION</RC_DESCRIPTION>
                            <RC_TYPE>DEL</RC_TYPE>
                        </REASON_CODE>
                    </REASON_CODES>
                </ORDER_DETAIL>
            </ORDER_DETAILS>
        </ORDER>
    </ORDERS>
</STOP>
</STOPS>
```

Variable data for TRIP_HEADER:

Tag	Notes
TRIP_TRANSACTION_DATE	The date/time the Job was completed, from EPOD_JOB.EPL_ACTUAL_END_DATE/EPL_ACTUAL_END_TIME, if populated, else the time the message is sent, in XSD Date format.
TRIP_ID	EPL_LOAD_ID

Variable data for TRIP_DETAIL:

Tag	Notes
HAULIER	EPODSITE.EPL_TTM_XREF if present, else EPODSITE.EPL_SITE_ID
TRACTOR_LAT	The latitude of where the job was started, extracted from EPOD_AUDIT.EPL_GPS_COORD, if populated, else 0.
TRACTOR_LON	The longitude of where the job was started, extracted from EPOD_AUDIT.EPL_GPS_COORD, if populated, else 0.

Variable data for STOP_HEADER:

Tag	Notes
STOP_SEQUENCE	EPL_TTM_STOP_NUMBER if configured, else EPL_SEQUENCE if populated, otherwise a counter incremented for each job on the trip.

Note: If configured, the Stop Sequence will be calculated to be in the same basic sequence that the jobs would appear on the mobile device, taking into account blank sequences (which will appear at the end), consolidations, the order in which jobs at the same location are to be completed, etc.

Variable data for STOP_DETAIL:

Tag	Notes
STOP_REF	EPL_JOB_TYPE
STOP_TYPE	"PK" if STOP_TYPE = "C" else "DL"

Tag	Notes
STOP_PLANNED_ARRIVAL_DATE	EPL_START_PLANNED_DATE/EPL_START_PLANNED_TIME in XML date format
STOP_PLANNED_DEPARTURE_DATE	EPL_END_PLANNED_DATE/EPL_END_PLANNED_TIME in XML date format. Only populated if there is an End Planned Date for the job
STOP_ACTUAL_ARRIVAL_DATE	EPL_ARRIVAL_DATE/EPL_ARRIVAL_TIME if populated, else EPL_END_ACTUAL_DATE/EPL_END_ACTUAL_TIME, in XML date format
LOC_TIMEZONE	EPL_TIMEZONE

Note: If Timezone is omitted or blank, *CALIDUS* Portal assumes GMT.

Stop Location and Address fields in the STOP_DETAIL section are populated based on Job Address or Customer Address, depending on which exist, as follows:

Tag	EPOD_JOB_ADDRESS	EPOD_CUSTOMER
STOP_LOCATION_ID	EPL_ADDRESS_ID if populated, else EPOD_JOB.EPL_CUSTOMER_CODE	EPL_ADDRESS_ID_PREFIXED if populated, else EPOD_JOB.EPL_CUSTOMER_CODE
STOP_LOCATION_NAME	EPL_NAME if populated, else EPOD_CUSTOMER.EPL_CUSTOMER_NAME	EPL_CUSTOMER_NAME
STOP_ADDR_LINE1	EPL_ADDRESS_1	EPL_ADDRESS_1
STOP_ADDR_LINE2	EPL_ADDRESS_2	EPL_ADDRESS_2
STOP_TOWN	EPL_ADDRESS_3	EPL_ADDRESS_3
STOP_POSTCODE	EPL_POSTCODE	EPL_POSTCODE
STOP_CONTACT_NAME	EPOD_JOB.EPL_CUST_SIGNATORY if populated else EPL_CONTACT	EPOD_JOB.EPL_CUST_SIGNATORY if populated else EPL_CONTACT
STOP_CONTACT_PHONE	EPL_TELEPHONE	EPL_TELEPHONE

Variable data for ORDER_HEADER:

Tag	MODE1 Notes	MODE2 Notes
ORDER_TRANSACTION_DATE	EPL_LAST_CHANGED_DATE/EPL_LAST_CHANGED_TIME in XSD format	As MODE1
WMS_WAREHOUSE	EPODSITE.EPL_TTM_XREF if present, else EPODSITE.EPL_SITE_ID	As MODE1
WMS_OWNER	EPL_OWNER_NAME if present, else EPODSITE.EPL_TTM_XREF if present, else EPODSITE.EPL_SITE_ID	As MODE1
SO_REF	EPL_CUST_REF if present, else EPL_JOB_CODE	EPL_EXT_REF
TMS_REF	EPL_JOB_CODE	As MODE1
PO_REF	EPL_SO_NUMBER	As MODE1
BOOK_REF	EPL_EXT_REF	EPL_CUST_REF
BOOK_DATE	EPL_START_PLANNED_DATE/EPL_START_PLANNED_TIME in XSD format	As MODE1
ORDER_TYPE	"C" if there is not a "DEL" address for the order (see below) else "O"	As MODE1
TRACK_TO	"COL" if there is not a "DEL" address for the order (see below) else "DEL"	As MODE1
CUSTOMER_ID	EPL_ACCOUNT if populated	As MODE1
ORDER_REF_1	EPL_SITE_ID	As MODE1

Note: The data sent will be based on MODE1 if the interface is not explicitly set to MODE2.

Note: If the system has determined the order to be a redelivery attempt (and is configured to do so), the SO Ref sent to TTM will be appended with "_R" and the redelivery count.

Variable data for ORDER_DETAIL:

Tag	EPOD_CONTAINER	EPOD_PRODUCT
DETAIL_TYPE	"D"	"S"
ITEM_IDENTIFIER	EPL_CONTAINER_ID	EPL_PRODUCT_CODE
ITEM_DESCRIPTION	EPL_DESCRIPTION	EPL_DESCRIPTION

Tag	EPOD_CONTAINER	EPOD_PRODUCT
ORDERED	1	EPL_PRODUCT_QTY_ORDERED
TO_DELIVER	1	EPL_PRODUCT_QTY_PLANNED
DELIVERED	1 if delivered (EPL_STATUS = "C") or 0 if not delivered (EPL_STATUS = "X")	EPL_PRODUCT_QTY_ACTUAL

A REASON_CODES section will only be created if the detail line in question (EPOD_CONTAINER or EPOD_PRODUCT) has a reason code or clause comment against it.

Variable data for REASON_CODE:

Tag	Reason Code	Clause Comment (For Containers only)
RC_CODE	EPL_REASON_CODE	"_CLAUSED_"
RC_DESCRIPTION	EPOD_REASON.EPL_DESCRIPTION	"Claused Delivery"
RC_COMMMENT	Tag not produced	EPOD_CONTAINER.EPL_CUST_COMMENT

2.9 GPS messages

GPS messages inform *CALIDUS* Portal of Lat/Long information gathered from mobile devices during operation, for last known location tracking and ETA purposes. These messages are sent every time the Mobil Device sends a GPS Tracking message to the server.

The data in the message sections is predominantly based on the following tables:

Tag	Notes
GPS_TRACKS	EPOD_AUDIT
GPS_POINTS	EPOD_AUDIT

The basic XML Layout is as follows:

```
<GPS_TRACKS>
    <GPS_TRACK>
        <HAULIER>EPL_SITE_ID</HAULIER>
        <HAULIER_NAME>EPOD_SITE.EPL_DESCRIPTION</HAULIER_NAME>
        <DRIVER>EPL_USER_ID</DRIVER>
        <DRIVER_NAME>EPOD_USER.EPL_USER_NAME</DRIVER_NAME>
        <TRACTOR>EPL_VEHICLE_ID</TRACTOR>
        <GPS_POINTS>
            <GPS_POINT>
                <GPS_POINT_DATE>2012-12-20T00:00:00</GPS_POINT_DATE>
                <TRACTOR_LAT></TRACTOR_LAT>
                <TRACTOR_LON></TRACTOR_LON>
                <TRIP_ID>EPL_LOAD_ID</TRIP_ID>
                <LOC_TIMEZONE>EPL_DEVICE_TIMEZONE</LOC_TIMEZONE>
            </GPS_POINT>
        </GPS_POINTS>
    </GPS_TRACK>
</GPS_TRACKS>
```

Variable data for GPS_TRACK:

Tag	Reason Code
HAULIER	EPL_SITE_ID
HAULIER_NAME	EPOD_SITE.EPL_DESCRIPTION
DRIVER	EPL_USER_ID
DRIVER_NAME	EPOD_USER.EPL_USER_NAME
TRACTOR	EPL_VEHICLE_ID

Variable data for GPS_POINT:

Tag	Reason Code
GPS_POINT_DATE	EPL_DEVICE_DATE/EPL_DEVICE_TIME in XSD date format.
TRACTOR_LAT	The latitude of where the job was started, extracted from EPOD_AUDIT.EPL_GPS_COORD.
TRACTOR_LON	The longitude of where the job was started, extracted from EPOD_AUDIT.EPL_GPS_COORD
TRIP_ID	EPL_LOAD_ID
LOC_TIMEZONE	EPL_DEVICE_TIMEZONE

Note: If Timezone is omitted or blank, *CALIDUS* Portal assumes GMT.

2.10 Sending Messages to *CALIDUS* Portal

The Auto-Export process that generates and sends these files is a stand-alone application, that must be initiated through a system scheduler. The expected interval for this process is 3-5 minutes.

All messages generated by these processes are exported through flat-file transfer, either through a local file folder or through FTP.

The default file naming convention is:

```
EPOD_LOTS_<EPL_SITE_ID>_FTP_<currentDate>_<currentTime>_1.XML
```

although this can be overridden through the export configuration parameters in EPOD_XF_CONFIG.

In all cases, the file is created in a separate area as a temporary file, or created as a temporary file in the destination folder, then renamed, to prevent misreads by *CALIDUS* Portal of incomplete data.

The process is as follows:

- Builds all messages to be sent
- Send all messages to *CALIDUS* Portal.

Messages are built in this order, with these details:

- ORD
- TRP
- RES/COL/DEL/CAN
- OIT/ARR
- GPS