

**285961 v1.0**

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1 285961



DHL C-TMS

# Action Late Reason Codes Received from LOTS

FUNCTIONAL SPECIFICATION - 10.6

13/04/2012 - 1.0

Reference: 285961 JB-8DWU9B



## 1.1 Client Requirement

### Change Request Summary:

Action late reason codes received in message from LOTS.

### Change Request Details:

1. Late reason codes will only be sent upon delivery confirmation and will be parameterised (on/off) on LOTS.2. Please provide relevant functionality to make the necessary debrief screen updates using the message provided.3. ESI will be required to map the LOTS (maximum 3 digit code) to the longer C-TMS code.

Benefits identified as a result of the change:

Users can manage late reason codes in one system and provide visibility to customers.

## 1.2 Solution

A change will be made to allow the stop reason codes to be extracted from the XML flow from LOTS. This will require the appropriate new XML tags to be assessed for the late reason codes provided for the trip stops.

The late reason codes in C-TMS may be up to 12 characters in length and any new codes required by LOTS will need to be setup.

The valid late reason codes at the trip stop will be applied only to the late orders at the stop. The late orders will be obtained using the same logic present in the ?Trip Debrief? screen when the ?Add Time Reason(s)? button is pressed.

## 1.3 Scope

This change will be applied to system version 10.6



## 2 Set-up

### 2.1 Pre-requisites

As mentioned in the CLIENT REQUEST, ESI will be required to map the LOTS reason codes to the C-TMS reason codes

### 2.2 Menu Structure

?Unchanged?

### 2.3 Data

An new reason codes required for LOTS will be loaded into the SCH\_LATE\_REASON table. The data will be provided by the Business users.



### 3 Functional Description

The existing procedure for processing LOTS inbound data will be amended to accept and process Stop Reason Codes. To allow the data to be processed, a new interface table will be created to store the stop reason records  
INT\_XML\_STOP\_REASONS

INT\_XML\_SEQ  
FILE\_NAME  
EXTERNAL\_SYSTEM  
EVENT\_DATE  
RECORD\_STATUS  
TRIP\_ID  
STOP\_SEQ  
RC\_TYPE  
RC\_CODE  
RC\_DESCRIPTION  
RC\_COMMENT  
VALIDATION\_ERROR  
CREATED\_BY  
CREATED\_DATE

Within the existing stop processing, further code will be added to process any stop reason records at each stop.

Validation of the stop reason data will be carried out , firstly to check that the reason code exists on C-TMS and secondly to check for null values and duplicate records. The reason code will be compared with the data in the C-TMS table SCH\_LATE\_REASONS. If the reason code does not exist in this table, an error will be written and stored. If the reason code already exists against the stop, an error will be written and stored.

Any null reason codes will create and store an error. After validation, the reason record will be inserted into the interface table. If there are no errors, the record will be inserted with a record\_status ?NEW?.

If there are errors, the record will be created with a status FAIL and the error will be written to the validation\_error field. In addition, the stop interface record in INT\_XML\_TRIP\_STOP will be updated. The VALIDATION\_ERROR field will be populated with the message ?There was a problem with a reason code at this stop? This will be available to view in the Interface Errors screen on the XML\_TRIPS tab.



The XML\_TRIPS screen will be amended to display the records from the INT\_XML\_STOP\_REASON table. The screen will be amended to display the information as header and details records, following the format of the XML\_ORDER tab, which displays order and line information.

The block outlined above, will store the stop reason records on the XML\_TRIPS tab.

In the STOP\_REASON data-block, the validation error field will record if the reason code did not exist on C-TMS.

After the data processing has completed, the ?NEW? records in INT\_XML\_STOP\_REASON will be processed. To process the records, all orders on the stop will be identified. If the order is identified as late (using the code currently run in the debrief screen when the ?ADD TIME REASON ?BUTTON is pressed.

If an order is identified as being late, the stop reason record will be added to the SCH\_ORD\_LATE\_REASON table.

**Field Name**    **Value**  
 SCHED\_NAME    Derived from the stop



OMS\_REF      Derived from the stop  
 TRIP\_ID      INT\_XML\_STOP\_REASONS.TRIP\_ID  
 LATE\_CODE    INT\_XML\_STOP\_REASONS.RC\_CODE  
 COMMENTS    INT\_XML\_STOP\_REASONS.RC\_COMMENT

A check will be run against the TRIP\_ID, OMS\_REF and LATE\_CODE. If a record already exists on the table, the record\_status in the INTERFACE table (INT\_XML\_STOP\_REASON) will be set to ?FAIL? and ?Duplicate reason record? will be written to the validation\_error field.

If the record is successfully inserted in SCH\_ORD\_LATE\_REASON, the record status will be updated to ?SUCESS?.

### Table Updates Required

CREATE NEW TABLE INT\_XML\_STOP\_REASON

INT\_XML\_SEQ  
 FILE\_NAME  
 EXTERNAL\_SYSTEM  
 EVENT\_DATE  
 RECORD\_STATUS  
 TRIP\_ID  
 STOP\_SEQ  
 RC\_TYPE  
 RC\_CODE  
 RC\_DESCRIPTION  
 RC\_COMMENT  
 VALIDATION\_ERROR  
 CREATED\_BY  
 CREATED\_DATE

### References

Ref No	Document Title & ID	Version	Date
	EST-285961 JB-8DWU9B Action Late Reason Codes Received from LOTS v1.0	1.0	18/02/11

### Glossary

Term or Acronym    Meaning





**Document History**

<b>Version</b>	<b>Date</b>	<b>Status</b>	<b>Reason</b>	<b>Initials</b>
0.1	29/03/11	Draft	Initial version	SW
1.0	13/04/11	Issue	Reviewed and Issued	MJC



## 4 AUTHORISED BY

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