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1 264582



2 264582 - NW-7R9TLB Manual Microlise Trigger

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3 Functional Overview

3.1 Client Requirement

Messages from MTS to Microlise and other enabling systems can currently be managed automatically based on a flag set against the Tractor or Trailer. In some instances a driver may carry a portable MDT only and in these instances a separate method of triggering the message to the Microlise TMC will be required.

From Trip Manipulation or Trip Planning add a right click option to the Trip called "Send Enabling Message". Once selected this will trigger the Trip message to be sent to Microlise or another enabling system. A flag should also be added to the Trip Detail tab denoting that this message has been sent. I would suggest this should be called "Enabling Message Sent" and it should be added above the Manually Modified Flag. The existing FTL and GRP boxes can be moved so that they are adjacent rather than stacked.

This right click option should only become available once the Trip is in a status of ACCEPTED, once the check box is populated all other standard triggers around Trip updates should become enabled and be triggered automatically. If the Trip status is regressed to before ACCEPTED the check box should be unchecked and only checked again once the status is set back to ACCEPTED and the right click option selected.

3.2 Solution

The two trip screens TRIPSUM and TRIP_PLAN will have an additional option on the right click menu from the trip tree. The option will be labelled ?Send Enabling Message?. Using the existing functionality, a number of trips from the trip tree can be highlighted, and then from the right click menu all the highlighted trips can be sent.

The new functionality will be based on the `f_trip_tree.send_message` code, the output being changed to create a new record on the `INT_XML_CONTROL` table (Interface errors transaction) for each highlighted trip. This record is the instruction for an XML trip message to be created for the trip on the next file creation cycle (set to 1 min intervals). Once a file is created, the processed record is stamped with the XML filename. If an unprocessed trip record exists waiting for the next file creation, the right click option for the same trip will not take any action.

The file creation cycle is a database job that runs permanently and every minute will produce a file in the required XML format for each requested trip. The XML files are FTP transferred to ESI, transformed to the Enabling Tool format and pushed to the Enabling Application.

Both Trip screens will be changed to show the date/time for the last sent message to Microlise with a label of ?Last Sent Enabling? on the Trip Details tab. The last sent date/time will not show on screen if the Trip Status is PLANNED or TENDERED. This covers the requirement to initialise the date/time if the trip status is regressed from ACCEPTED.

The TRIP_PLAN form has a space between the Delivery Type and Vehicle where the new field will be positioned.

The TRIPSUM change will include repositioning the FTL, GRP etc. flags to fit the new field above the Total Miles

3.3 Scope

This change will be applied to system version 10.6.

3.4 Data

Newly created table `INT_XML_CONTROL` will be used by triggers to inform the database job that an outbound XML is required.

This table will have a trigger to populate some fields including the unique identifier populated by the new sequence `seq_int_xml`.



4 Functional Description

4.1 Trip Summary

Form changes as follows :-

The screenshot displays the 'Trip Planning' application window. The top menu bar includes 'Action', 'MTS Modules', 'Administration', 'Edit', 'Help', and 'Window'. The main toolbar contains buttons for 'Export', 'Save', 'Cancel', 'Close', 'Message', 'Find', 'Trip Filter', 'Recalculate Times', 'Revalidate', 'Refresh Tree', and 'Refresh Trip'. The status bar at the top right indicates 'TRIP_PLAN v1.44' and 'MTS v10.5.0'.

The interface is divided into several sections:

- Left Panel:** Contains input fields for 'Plan Reg', 'Postal Reg', 'From', 'To', 'Loc', 'Curr Loc', 'Wgt', 'Vol', 'RPE', 'Status', 'Current', 'Layout', and 'EFX Ref.'. Below these is a table with columns: 'OMS Ref', 'From', 'To', 'Target', 'Weight', and 'RPE'.
- Right Panel (KPI Information):** Displays 'Trip Outbound KPI' (.00), 'Trip Inbound KPI' (3.85), 'Trip has Collection' (N), and 'Carrier Id' (a list box). It also includes 'Add' and 'Remove' buttons, and 'Carrier Outbound KPI' and 'Carrier Inbound KPI' fields.
- Bottom Panel:** Contains 'Trip Detail', 'Stops', 'Finance', and 'Audit' tabs. The 'Trip Detail' tab is active, showing fields for 'Owning Depot' (DHL DUMF), 'Cost Centre' (EXEL), 'Carrier', 'Driver', 'Route Code', 'Delivery Type' (Standard), and 'Vehicle'. Below these are 'General Comm...', 'Rejection Comm...', 'Errors', and 'Contract Audit' buttons.

A right-click context menu is open over the 'Vehicle' field, showing the following options:

- Refresh
- Show Trip Details
- Revalidate Trip
- Set Status
- Split Trip
- Merge Trips
- Merge Trip Across Schedules
- Merge Trip with -
- Delete Trip
- Unschedule Orders
- Edit Order
- Send Message
- Change Schedule Date

A new option will be made available on the right click menu on the Trip below the existing ?Send Message? option.

It will be called ?Send Enabling Message? and when selected it will populate the standard INT_XML_CONTROL table with the appropriate data.

This in turn will result an already existing database job producing a file in the standard XML format and sending it to Microlise.

A second change to the form will be to shift the Vehicle field up a line and then add a new line where the Vehicle field was called ?Enabling Sent?.

This will display the latest created date from the INT_XML_CONTROL record to inform the user that a message has already been sent to Microlise and when it was sent.

4.2 Trip Manipulation

Form changes as follows :-



Action MTS Modules Administration Edit Help Window
 Trip Manipulation
 ?.. ? Clr Find Trip Filter Refresh Tree Refresh Trip Recalculate Times Revalidate Message Save Cancel Close Export TRIPSUM v2.137 MTS v10.5.0
 Sched 090510 Search ? Sched/Batch No 090510 Not registered Trip No MAN-00422235 EFX Ref.
 17:00 MAN-00422235 (ACCEPTED) Trip Detail Stops Finance Audit
 Refresh
 Show Trip Details
 Revalidate Trip
 Set Status
 Split Trip
 Merge Trips
 Merge Trip Across Schedules
 Merge Trip with -
 Delete Trip
 Unschedule Orders
 Edit Order
 Send Message
 Change Schedule Date
 Owing Depot DHL DUMF Trip Ref. M326092 Container No.
 Cost Centre EXEL Seal No.
 Carrier
 Driver
 Status ACCEPTED Delivery Type Standard Last updated 05/09/07 14:45:29
 General Comments Rejection Comments Errors Contract Audit
 FTL
 GRP
 Manually Modified Flag
 Trip Amended Flag
 Send Amended Email
 Total Km 226
 Drive Time 3:09
 Elapsed Time 4:11
 Sched 090510 Loc
 Layout 1: PO VIEW
 Refresh New Order
 Clear Order Filter
 Status
 Current
 OMS Customer Booking Ref From To Collect From Until Deliver From Until Weight RPE

A new option will be made available on the right click menu on the Trip below the existing ?Send Message? option.

It will be called ?Send Enabling Message? and when selected it will populate the standard INT_XML_CONTROL table with the appropriate data.

This in turn will result an already existing database job producing a file in the standard XML format and sending it to Microlise.

A second change to the form will be to shift the FTL and GRP flags to the same line, move the other flags up a line and add a new field to where ?Elapsed Time? is currently displayed called ?Enabling Sent?.

This will display the latest created date from the INT_XML_CONTROL record to inform the user that a message has already been sent to Microlise and when it was sent.



5 References

Not Available



6 Document History

Version	Date	Status	Reason	Initials
0.1	12/05/09	Draft	Initial version	DRM
1.0	19/05/09	Issue	Reviewed and Issued	DJM



7 Authorised By

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