

**266486**

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1 266486



## 2 266486 AA-7PPF4C Stops Consolidation in Trip

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## 3 FUNCTIONAL OVERVIEW

### 3.1 Client Requirement

MTS does not consolidate all the orders in one stop (location) if collection / delivery date windows is not same for all the orders in a trip and MTS displays the stops separately and does not consolidate. This request is for MTS to consolidate the stops when the same stop exist in a trip.

Increase the HHT usage at the time of POC-POD

### 3.2 Solution

#### 3.2.1 Current Functionality:

When orders are applied to a trip or if trips are merged, a check is first done to see if the trip has stops that match the ?from? and ?to? location of the order you are applying or trips you are merging. If this is the case, then a check is done to ensure the order you are applying to the trip or the trips you are merging have Collection and Delivery Windows that overlap. If this is the case, the order will be consolidated onto a stop that already exists on the trip however if the time windows do not overlap, then a new collect and deliver stop will be created on the trip.

#### 3.2.2 Issue Raised:

The creation of extra collect and deliver stops on an trip when time windows do not match, instead of consolidating orders on existing stops on the trip, has been raised as an issue.

#### 3.2.3 Proposed Solution:

The check to see whether time windows overlap is performed within function F\_CHECK\_STOPS\_ORD\_WINDOW in package TRM. Currently if the time window of the order being applied to the trip does not overlap with an existing stop on the trip, or if the trip being merged does not have stops with overlapping time window, then FALSE is returned from this function and the trip will continue to create new stops. If overlapping time windows are found within this function then TRUE is returned and the order/merged trip will be consolidated on existing stops.

OBS proposes to control this functionality by a new parameter called TRM\_CHECK\_TIME\_WINDOWS\_OVERLAP. If this is set to ?Y? then the functionality will perform as normal. If this is set to ?N? then the code within this function, to check whether time windows overlap, will be skipped and TRUE will always return, forcing the trip to always consolidate the order being applied or trip being merged onto existing stops, without checking overlapping of time windows.

#### 3.2.4 Additional Notes:

When switched off (e.g. new parameter set to ?N?), this functionality will exist throughout the system when manipulating trips Applying orders to trip/merging trips will consolidate orders onto existing stops regardless of time windows however the trip may have errors around missed collection and delivery windows (Errors tab within Trip Detail tab in TRIP screens) When orders added to trip or trips merged, stops will always be in sequential order e.g. 1, 2, 3, 4, 5 not 1, 3, 5 as detailed in attached document about HHT consolidation

### 3.3 Scope

These changes will be applied to system version 10.4.7 on SARTST and once approved SARPRD.

### 3.4 SET-UP

#### 3.4.1 Pre-requisites

None

#### 3.4.2 Menu Structure

Unchanged



### 3.4.3 Data

Include new parameter that will control functionality. Setting to Y will retain original functionality. Setting to N will switch off check on whether Time Windows overlap when adding orders to a trip or merging trips. This will be set to N when released as the request is to not include this functionality.

```
INSERT INTO ADM_SYSTEM_PARAM (param_name, value, data_type, max_length, displayed, user_modifiable, description)
VALUES ('TRM_CHECK_TIME_WINDOWS_OVERLAP', 'N', 'S', 3, 'Y', 'Y',
'Set to Y/N depending on whether to check Time Windows overlap when adding orders to trip or merging trips'
'SYSTEM', 'NONE');
```



## 4 FUNCTIONAL DESCRIPTION

### 4.1 Current Functionality

Below will outline current functionality around check on Time Windows.

Order 996626 created going from EXELBAWT to EXELWHIT. The Time Window on this is 22/06/09 to 25/06/09:

Order details for 996626

Status: UNSCHEDULED Oms Ref: 996626 Booking Ref: test1 Booked In: ☒ Customer Ref: Del Point Ref:

Detail Order Items Add Detail SAP Detail MTM Info Audit Audit Archive Finance Non Con

Cost Centre: EXEL Customer: 4CX Schedule: 090622  
 Template ID: Group Name: EXELBAWT  
 Collect From: EXELBAWT Bawtry\_Excel Bawtry\_DN11 9HE  
 Deliver To: EXELWHIT Whitwood\_DHL Whitwood\_WF10 5QL  
 Current Location: Temp Combo: Ambient

Collect times: 22/06/09 00:00 to 25/06/09 23:59  
 Delivery times: 22/06/09 00:00 to 25/06/09 23:59

Target: Target: ☐ Standard times  
☐ Collection Time Target  
☐ Delivery Time Target  
☐ Open Window

Planned						Actual		
Product Type	DU Type	Qty	Weight	Volume	Cases	RPE	Despatched	Delivered
AMBIENT	CHEP PALLET	1		1.00000		1.00		

Order 996627 created same as previous e.g. going from EXELBAWT to EXELWHIT but this order has time windows 17/06/09 to 19/06/09:

Order details for 996627

Status: SCHEDULED Oms Ref: 996627 Booking Ref: test2 Booked In: ☒ Customer Ref: Del Point Ref:

Detail Order Items Add Detail SAP Detail MTM Info Audit Audit Archive Finance Non Conformance

Cost Centre: EXEL Customer: 4CX Schedule: 090617  
 Template ID: Group Name: EXELBAWT  
 Collect From: EXELBAWT Bawtry\_Excel Bawtry\_DN11 9HE  
 Deliver To: EXELWHIT Whitwood\_DHL Whitwood\_WF10 5QL  
 Current Location: EXELWHIT Whitwood\_DHL Whitwood\_WF10 5QL  
 Temp Combo: Ambient

Collect times: 17/06/09 00:00 to 19/06/09 23:59  
 Delivery times: 17/06/09 00:00 to 19/06/09 23:59

Target: Target: ☐ Standard times  
☐ Collection Time Target  
☐ Delivery Time Target  
☐ Open Window

Planned						Actual		
Product Type	DU Type	Qty	Weight	Volume	Cases	RPE	Despatched	Delivered
AMBIENT	CHEP PALLET	1		1.00000		1.00		

Order 996627 was applied to a trip. Then order 996626 was applied to same trip. Trip created as below, with new pick up and deliver stop for second order as time windows do not overlap, even though they are going from and to the same location.



**Trip Manipulation**

Buttons: ?.. ? Clr Find Trip Filter Refresh Tree Refresh Trip Recalculate Times Revalidate Message Save Cancel Close Export

Sched: 090617 Search: ? Sched/Batch No: 090617 Not registered Trip No: MAN-00464115 EFX Ref: ?

Left Panel:

- 00:00 MAN-00463875 (ACCEPTED)
- 22:38 MAN-00464115 (PLANNED)
- 00:01 MAN-00463755 (PLANNED)

Trip Detail Stops Finance Audit

Fix	P	Arr	P	Dep	A	Arr	A	Dep	Type	Location	Trailer Type	Trailer Id	Break
1	19/06/09	22:38	23:08						SU	Bawtry_Exel Bawtry_D	45FT		
2	19/06/09	23:59	00:29						DL	Whitwood_DHL Whitwo	45FT		
3	20/06/09	01:20	01:50						PK	Bawtry_Exel Bawtry_DN	45FT		
4	20/06/09	02:41	03:11						CL	Whitwood_DHL Whitwo	45FT		

Weight on Departure: .00 RPE on Departure: 1.00 Km from previous stop: 0 Time from prev stop: 0

Seq 1 Activity Load OMS Ref 996627 RPE 1.00

## 4.2 New Functionality

When the new functionality is released to SARTST, and the previous steps were performed e.g. set up 2 orders going from and to the same location but with time windows that do not overlap. When the second order is applied to the trip, the trip should be created as below, with both orders consolidated on the same stop regardless of time windows:

**Trip Manipulation**

Buttons: ?.. ? Clr Find Trip Filter Refresh Tree Refresh Trip Recalculate Times Revalidate Message Save Cancel Close Export

Sched: 090617 Search: ? Sched/Batch No: 090617 Not registered Trip No: MAN-00464115 EFX Ref: ?

Left Panel:

- 00:00 MAN-00463875 (ACCEPTED)
- 00:00 MAN-00464115 (PLANNED)
- 00:01 MAN-00463755 (PLANNED)

Trip Detail Stops Finance Audit

Fix	P	Arr	P	Dep	A	Arr	A	Dep	Type	Location	Trailer Type	Trailer Id	Break
1	22/06/09	00:00	00:30						SU	Bawtry_Exel Bawtry_D	45FT		
2	22/06/09	01:21	01:51						CL	Whitwood_DHL Whitwo	45FT		

Weight on Departure: .00 RPE on Departure: 2.00 Km from previous stop: 0 Time from prev stop: 0

Seq 1 Activity Load OMS Ref 996627 RPE 1.00

Seq 2 Activity Load OMS Ref 996626 RPE 1.00

## 4.3 PACKAGE AMENDMENTS

### 4.3.1 TRM package amendments

The TRM.sql package will have function F\_CHECK\_STOPS\_ORD\_WINDOW updated to check what the parameter TRM\_CHECK\_TIME\_WINDOWS\_OVERLAP is set to. If it is set to Y, the code will process as normal, so there will be no change to functionality. If the new parameter is set to N, the code within the function will be skipped so as not to check whether the Time Windows overlap. TRUE will always be returned in this situation, so any time the function is called, it will return that it is TRUE that the Time Windows overlap, therefore allowing orders to be consolidated onto the same stop.





## 5 References

Ref No	Document Title & ID	Version	Date
	Stop Consolidation in MTS v2.0.doc	2	
	EST-266486 AA-7PPF4C Stops Consolidation in Trip v1.0.doc	1	30/06/2008



## 6 Document History

Version	Date	Status	Reason	Initials
0.1	06/07/09	Draft	Initial version	LAD
1.0	07/07/09	Issued	Reviewed and Issued	MJC



## 7 Authorised By

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