

**270177**

Aptean Ltd  
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## 2 270177 - NW-7WRLZP / Load Rate for Weight

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## 3 FUNCTIONAL OVERVIEW

### 3.1 Client Requirement

Modify Load Rates to take into account the Weight on an Order, this should allow a fixed and variable time to be applied to an Order activity at a Location based on the Load Rate assigned against the activity Location.

To remove the possibility of conflicts with DU's it may be worth making the current DU variables against Load Rates configurable so that a user has to select either DU or Weight as the driving variable. This is because HUK are likely to want to continue to use DU variables but Baxter will need to use Weight.

### 3.2 Solution

Add a new flag (LOAD\_RATE\_TYPE) to the cost centre table (REV\_COST\_CENTRE) to indicate if the cost centre is going to use DU Types/Quantity (Null or ?D?) or Weight (?W?) for calculating its loading and unloading times.

As the locations are shared between cost centres on the same database and hence the loading rates are also shared then we are proposing adding a new field (to the loading header table for minutes per weight.

All of the places where the loading and unloading times are calculated in MTS will need changing to take into account these new fields.

Packages effected are :- CSV (Write\_Orders\_to\_Paragon)

GEO (get\_activity\_rate, get\_fixed\_mins, get\_SU\_mins, get\_CL\_mins) - Will all need cost centre passing from TRM

IMP (Process\_TI\_Order ??? cust\_id, process\_slot,)

INT\_XML\_OUT (add\_location, update\_location)

TRM (calc\_visit\_distance\_and\_time, set\_trip\_status, loading\_time) -

Forms effected are :-

RESOURCE

CUST\_COST

### 3.3 Scope

This change will be applied to system version 10.6.



## 4 SET-UP

### 4.1 Database Changes

Alter table REV\_COST\_CENTRE adding new field LOAD\_RATE\_TYPE VARCHAR2(12).

This will be set to ?WEIGHT? for the Baxter cost centre as they will be using the new weight functionality for calculating the loading and unloading times.

All other cost centres will be set to ?DU QTY? so as to use the existing DU\_Type and Quantity values for determining the times.

NB) If the field is null then it will be assumed to be ?DU QTY?.

Alter table RES\_LOAD\_RATE adding new field MINS\_PER\_WEIGHT NUMBER(11,5).

This will hold the new value for Baxter for determining the time in minutes to load/unload a single weight (KG) unit.

### 4.2 System Registries

A pair of system registries called ?TRM\_LOAD\_dflt\_mins\_per\_rpe? and ?TRM\_UNLOAD\_dflt\_mins\_per\_rpe? already exist and are used in the calculation of the loading and unloading times when no suitable value has been provided.

This should never happen as specific rates should always be provided but to keep the new functionality consistent with the old functionality we will create 2 new registries called ?TRM\_LOAD\_dflt\_mins\_per\_weight? and ?TRM\_UNLOAD\_dflt\_mins\_per\_weight? which will be used if no suitable value (RES\_LOAD\_RATE.MINS\_PER\_WEIGHT) has been provided.



## 5 FUNCTIONAL DESCRIPTION

The 2 visible changes for the client will be to the RESOURCE form to allow the new load rate type field to be maintained and to the CUST\_COST form to allow a new minutes per weight to be maintained.

All of the other changes will be in the packages which will use these new fields in calculating the load and unload times.

### 5.1 Forms

#### 5.1.1 Cost Centres

The current main form looks like :-

The new field (LOAD\_RATE\_TYPE) will be added as a dropdown list allowing the 2 hard coded values of ?WEIGHT? and ?DU QTY? to be selected and will be placed on the form just above the Internal Revenue field.

#### 5.1.2 Load Rates

The current main canvas on the forms looks like :-

Some of the columns (?SU/CL Mins?, ?Fixed Mins? etc.) can be narrowed and a new column added after ?Dflt Mins per DU? called ?Mins per Weight? containing the new field (MINS\_PER\_WEIGHT).

The column heading will need coding as the rest to allow the data to be sorted by this column.

The New/Edit canvas currently looks like :-



The new field (MINS\_PER\_WEIGHT) will need adding below the 'Dflt Mins per Du' field to allow the value to be entered and amended as required.

## 5.2 Packages

### 5.2.1 CSV Packages

The only procedure that needs changing in this package is Write\_Orders\_to\_Paragon which was changed recently specifically for Baxter to add the loading and unloading times.

This code will need changing to check the REV\_COST\_CENTRE. LOAD\_RATE\_TYPE field and if set to 'WEIGHT?' which it should be for Baxter then the calculation of the variable time will need some new code.

It will not need to link to the RES\_LOAD\_RATE\_DTL table but will still need to link to the SCH\_ORDER\_LINE (SOL) table.

Instead of summing the SOL.quantity \* DU rate it will need to sum the SOL.weight \* RES\_LOAD\_RATE.MINS\_PER\_WEIGHT.

### 5.2.2 GEO Package

The procedure get\_activity\_rate will need changing but in order to put the new code in place an additional parameter called cost\_centre will need passing to it. The only place that this procedure is called from is the procedure loading\_time in the TRM package (see later).

The passed cost\_centre will be used to retrieve the corresponding REV\_COST\_CENTRE record and the LOAD\_RATE\_TYPE field will be checked.

If this is either NULL or set to 'DU QTY?' then the code will do exactly the same as it is doing now.

If this is set to 'WEIGHT?' then it will always use the rate from RES\_LOAD\_RATE.MINS\_PER\_WEIGHT if not NULL otherwise it will use the one of the new respective system registry values 'TRM\_LOAD\_dflt\_mins\_per\_weight?' or 'TRM\_UNLOAD\_dflt\_mins\_per\_weight?'.

Other procedures (get\_fixed\_mins, get\_SU\_mins and get\_CL\_mins) also use the RES\_LOAD\_RATE table but are unaffected by this change.

### 5.2.3 IMP Package

The procedure Process\_TI\_Order uses the cust\_id as a loading rate so this code is unaffected by the change.

The procedure process\_location does a check for a valid loading rate and again this code is unaffected by the change.

The procedure process\_slot gets the fixed minutes for a loading rate sop again is unaffected by this change

### 5.2.4 INT\_XML\_OUT Package

The procedures add\_location and update\_location both have code to validate the loading rate but will be unaffected by this change.





### 5.2.5 TRM Package

The procedures `calc_visit_distance_and_time` and `set_trip_status` both use the loading rate but only for fixed minutes so are unaffected by these changes.

The procedure `loading_time` needs changing so that the call to `GEO.get_activity_rate` passes an extra parameter for the `cost_centre`. This will be obtained from the `SCH_ORD` table.

The `cost_centre` will also be used to retrieve the corresponding `REV_COST_CENTRE` record and the `LOAD_RATE_TYPE` field will be checked.

If this is either `NULL` or set to `?DU QTY?` then the code will do exactly the same as it is doing now.

If this is set to `?WEIGHT?` then it will use the `SCH_ORDER_LINE.WEIGHT` to multiply with the returned rate in order to calculate the loading/unloading times.



## 6 REFERENCES

Not Applicable



## 7 DOCUMENT HISTORY

Version	Date	Status	Reason	Initials
0.1	23/10/09	Draft	Initial version	DRM
1.0	27/10/09	Issue	Reviewed and Issued	MJC



## 8 AUTHORISED BY

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