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Aptean Ltd
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1 264539



2 264539 - NW-7RGJEP / Add rating by distance to Tariffs

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3 FUNCTIONAL OVERVIEW

3.1 Client Requirement

Within Tariff Detail add a distance value into the Tier Units and Add Tier Units drop downs. This should be populated as either km or miles based on the value set in the System Parameter; GEO_DT_DISTANCE_UNITS. This will allow the Tariff and Contract to be configured to allow charging based on the distance associated with the Trip.

The Trip should then be able to be rated based on the planned total distance, the trigger to calculate this charge should be the changing of the Trip to the status of ACCEPTED as is currently the case for other automated rating. There may be a requirement to add a parameter to enable rating based on either Planned or Actual distance, this should be clarified with the Polish team.

3.2 Solution

The Tier Units and Add Tier units will be updated to include the new distance value. The value displayed will be determined by the system registry GEO_DT_DISTANCE_UNITS.

When the trip is set to status ACCEPTED, the automated rating will be triggered. Within this process the charges for distance will be calculated based on the distance on the trip.

The process currently will only allow calculations based on Weight, RPE and DU so the code will be changed to allow calculations based on the distance.

3.3 Scope

This change will be applied to system version 10.6.



4 FUNCTIONAL DESCRIPTION

A distance value will be added to the Tier Units and Add Tier drop down lists.

This value will be Kilometres or Miles depending on the registry GEO_DT_DISTANCE_UNITS.

Parameter Name	Config By	Contig By Value	Value	Description
GEO_DEFAULT_LOAD_RATE	SYSTEM	NONE	STD LOAD	Default Loading Rate for locations.
GEO_DEFAULT_UNLOAD_RATE	SYSTEM	NONE	STD UNLOAD	Default Unloading Rate for locations.
GEO_DRIVE_TIME_DTL_ONLY	SYSTEM	NONE	NO	Allows TRANSIT DAYS to be overridden by Drive Time
GEO_DT_ADDR_FMT	SYSTEM	NONE	,CITY,,POSTCODE,COUNTRY	Determines the format of the Address string passed to ext
GEO_DT_CALC	SYSTEM	NONE	NET,NETR,NAVTEQ,LINE	Determines the distance and time calculation methods - t
GEO_DT_DFLT_SPEED	SYSTEM	NONE	50	Default truck speed assumed in approximation of driving t
GEO_DT_DISTANCE_FACTOR	SYSTEM	NONE	2.2	"Wiggle" factor applied to straight-line distance to approxi
GEO_DT_PCMS_TIMEOUT	SYSTEM	NONE	5	Number of seconds to wait for PCMS to calculate distance
GEO_NAVTEQ_CITY_SPEED	SYSTEM	NONE	50	City Road Speed for NAVTEQ
GEO_NAVTEQ_COUNTRY_SPEED	SYSTEM	NONE	60	Country Road Speed for NAVTEQ
GEO_NAVTEQ_LOGIN	SYSTEM	NONE	EVAL_OBS_EU_POSTCODES_221	NAVTEQ Login
GEO_NAVTEQ_SPEED	SYSTEM	NONE	10.13.0.03	NAVTEQ Speed
GEO_SLOT_IMPORT_FILE	SYSTEM	NONE	VAST	Name of Slot Import file
GEO_SLOT_IMPORT_PATH	SYSTEM	NONE		Slot Import path
HKP_CLEAR_ARCHIVE_MESSAGES	SYSTEM	NONE	275	Age of ARCHIVED messaging records that are to be clean
HKP_CLEAR_MESSAGES	SYSTEM	NONE	30	Age of messaging records that are to be cleared.
ISO_QUEUE_NAME	SYSTEM	NONE	ononb	ISOTRAK Queue Name
ISO_RECON_MODE	SYSTEM	NONE	ARCHIVE	Determine whether messages should be deleted or recor

When a trip is set to status Accepted, the rating process will run. This calls the package RATE, which generates the charges based on the appropriate tariffs. This package will need to be changed to allow the entry of tariffs by distance.

There are various procedures in this package that look at the different tariff types (REP, WEIGHT, DUS). These will need to be changed to include the distance variable.

The trip used for the charge calculation will be the Trip Distance taken from SCH_TRIP (Distance column).



[illegible]

The charge calculation will be displayed as part of the trip cost on the Finance tab of the Trip screen. If a trip is moved back to planned, the distance charge will be removed.



5 ADDITIONAL REQUIREMENTS

5.1 Charges By Vehicle

Additional to the development to allow distance tier breakpoints and distance charge lines already developed, it is intend to allow each charge line to be conditional on matching a specific vehicle. You will be able to create many charge ID transactions for each tier ID, each with a different cost and each conditional to a specific vehicle in the carrier's fleet.

Rather than limit this development to tractors, the condition name (dropdown) will allow TRACTOR or TRAILER TYPE (or both). You will be able to create multiple conditions if you want to so for example a specific charge ID to one or many TRACTORS and one or many TRAILER TYPES. The condition value will be validated against the RESOURCE data and lookup lists will be available.

The condition functionality already exists for WEIGHT threshold and for REFRIDGERATED and this will be extended to allow condition based on specific vehicles or trailer type.

Note that the Charge Conditions panel on the lower right hand side is a list of conditions for each Charges ID transaction. The user will highlight each charge ID transaction to see the associated conditions (the vehicle) on the right side panel.

In the screen below the cost rule is;

For distance over 100kms up to 1000kms (tier 157), charge 1.21 PLN per 1 km (Charge ID 400) where the Tractor is specifically CB 7780K

The screenshot shows the 'Tariff Details' window in the Oracle MTS Modules Administration interface. The window is titled 'Tariff Details' and has a 'Standard Journey' tab selected. It displays a table of tiers and charges. The 'Tiers' table has columns: ID, Name, Limit, Additional Tier Name, and Additional Limit. The 'Charges' table has columns: ID, Value, Per, Units, Charge Type, Effective From, and Expiry Date. The 'Charge Conditions' panel on the right shows a list of conditions for the selected charge ID, with 'TRACTOR' and 'CB 7780K' highlighted.

Tiers ID	Name	Limit	Additional Tier Name	Additional Limit
156	Distance to 100kms: 100 Di...	100.00		
157	Distance to 1000kms: 1000...	1,000.00		

Charges ID	Value	Per	Units	Charge Type	Effective From	Expiry Date
155	1.33000	1.0000	Distance	TRANSPORT		
400	1.21000	1.0000	Distance	TRANSPORT		

Charge Conditions:

Condition Name	Condition Value
TRACTOR	CB 7780K

When creating a cost tariff, these are the steps;

- Choose counter party (the carrier), then
- Define tiers (km limits), then
- For every tier define charges (for different kind of trucks owned by carrier), then
- For every charge reference particular truck or type of trucks (note that for each charge you will be able to list many trucks or truck types if they each share the same charge).

The condition name and condition value shown in the screen above will both be validated against and supported by lists of values

5.2 Actual Kms

Should the actual distance be entered in the debrief form, the cost calculation will be reapplied using the actual distance rather than plan.

In the example debrief you can see the planned distance of 217 kms. The actual distance can be entered by ODO start of



0 (zero) and ODO end being the actual distance - this assuming the actual ODO readings are not available. If there are, then of course these can be entered to calculate the actual distance.

[illegible]

6 REFERENCES

Not Applicable



7 DOCUMENT HISTORY

Version	Date	Status	Reason	Initials
0.1	03/06/09	Draft	Initial version	DNG
1.0	03/06/09	Issue	Reviewed and Issued	MJC
2.0	20/07/09	Re-Issued	Additional Functionality	DJM



8 AUTHORISED BY

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