Sentinel

Omnitracs Canada Mobile TruckMate Integration

January 2018

Omnitracs, LLC

717 N. Harwood Street, Suite 1300

Dallas, TX 75201 U.S.A.

Omnitracs endeavors to ensure that the information in this document is correct and fairly stated, but Omnitracs is not liable for any errors or omissions. Published information may not be up to date, and it is important to confirm current status with Omnitracs.

This technical data may be subject to U.S. and international export, re-export or transfer (export) laws. Diversion contrary to U.S. and international law is strictly prohibited.

Specifications subject to change without notice.

January 2018

Contents

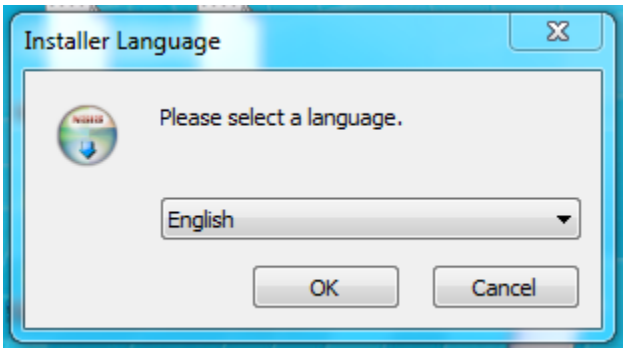
Sentinel Install Instructions

Downloading Sentinel

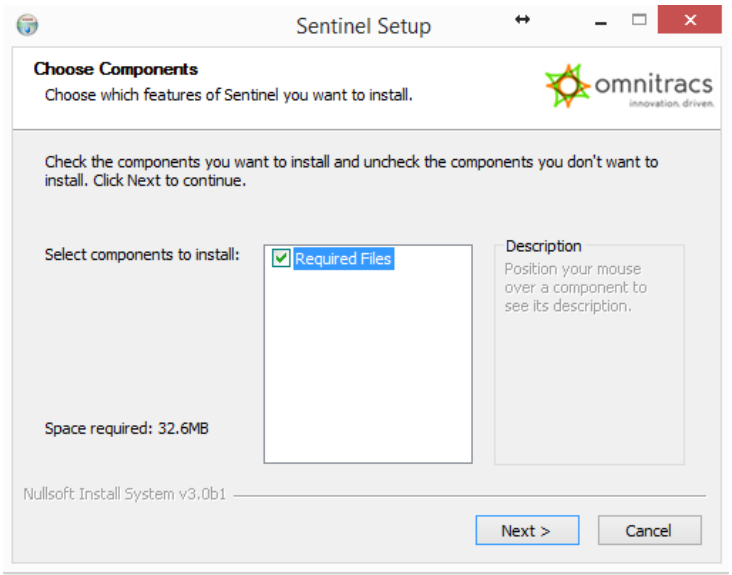
- Navigate to ftp://ftp.shawtracking.ca/general/ShawMobile/Sentinel.
- The login credentials are:
- Username: trackinguest
- Password: tracking
- Download the latest version of Sentinel as indicated by Omnitracs Canada.
- Run the Sentinel Installer.

Running the Installer

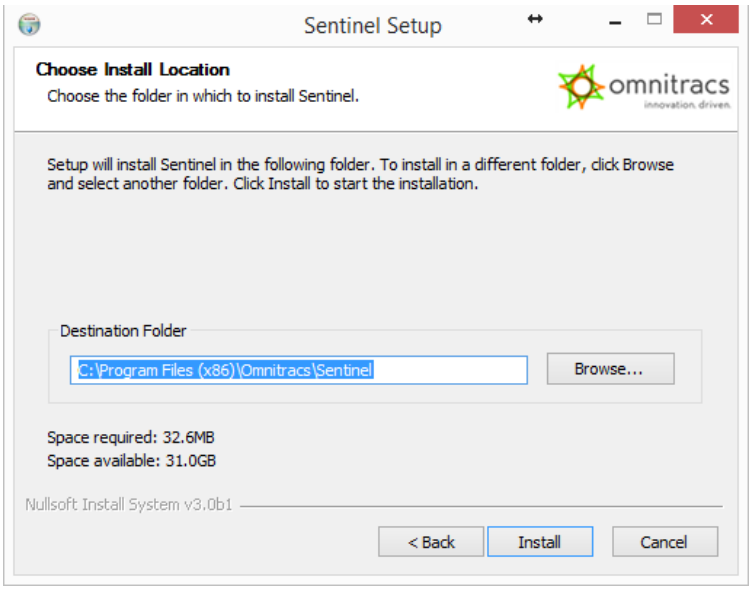
Select Your Language:



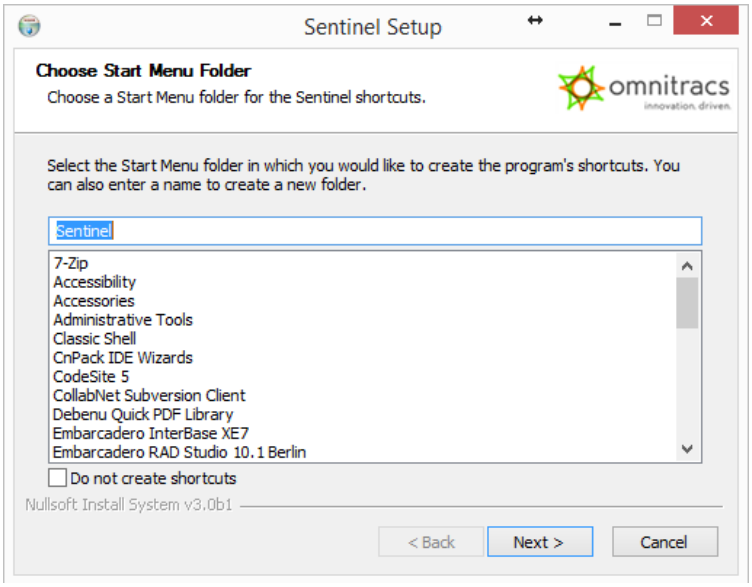
Check beside "Required Files" to install all components:

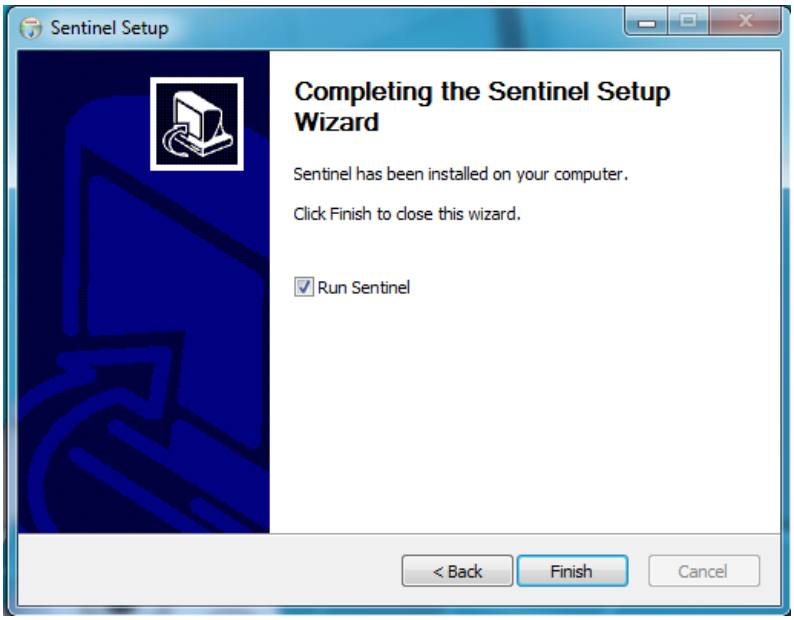


Choose the destination folder:



Choose a Start Menu folder for the Sentinel shortcuts:



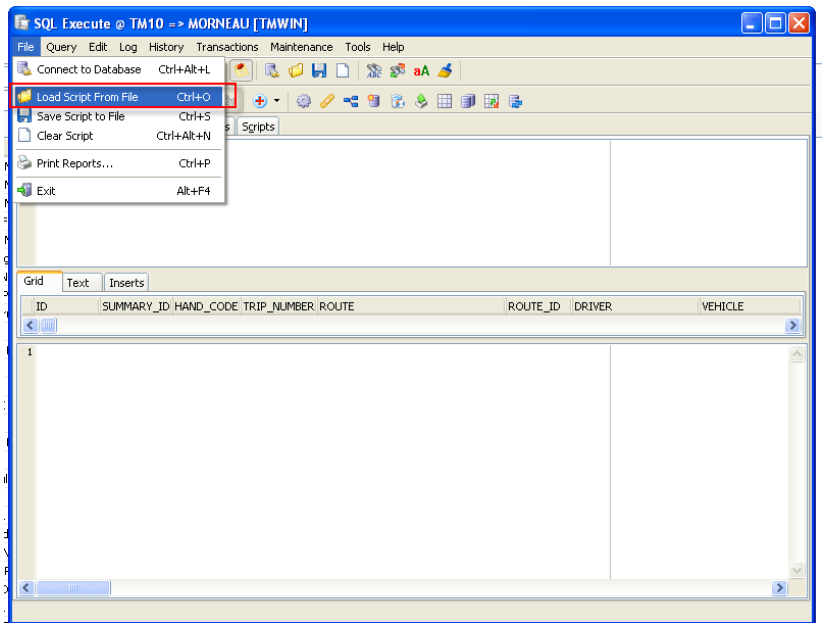


You have now completed the Sentinel Install. Select "Finish"

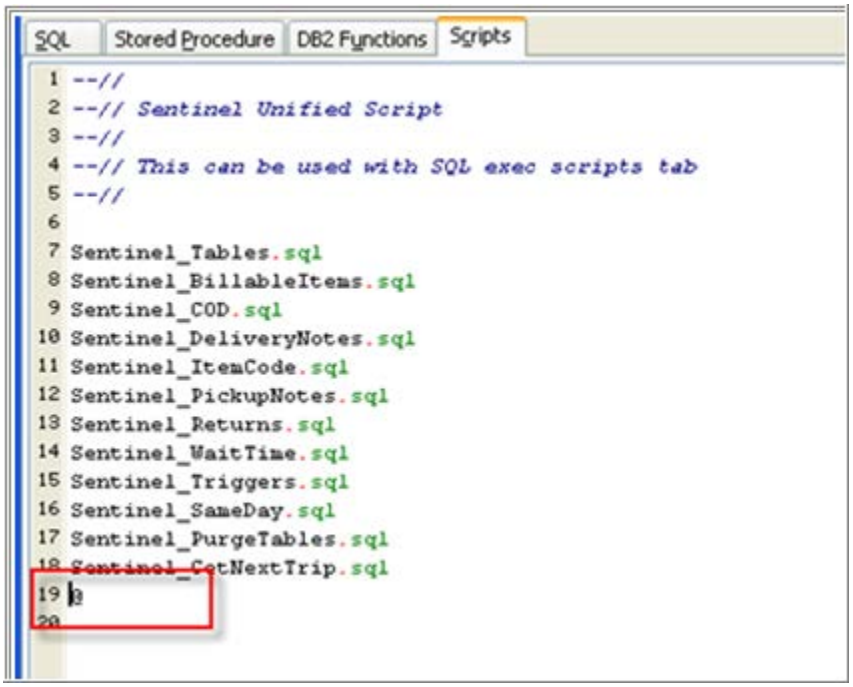
Installing the Sentinel schema in SQL Exec

Sentinel has its own schema that will be installed on the TruckMate database. It consists of a collection of tables, triggers and custom procedures that are required for Sentinel to function.

- Log into SQL Exec as the schema owner (LYNX or TMWIN)
- Select the "Scripts" tab.
- Select "File" and "Load Script from File"



- Navigate to your Omnitracs>Sentinel>Schema>TM10.x folder
- Select "Sentinel.sql". This will automatically run all required scripts to install the Sentinel Schema. Make sure before running script that "@" is on the last line on its own.

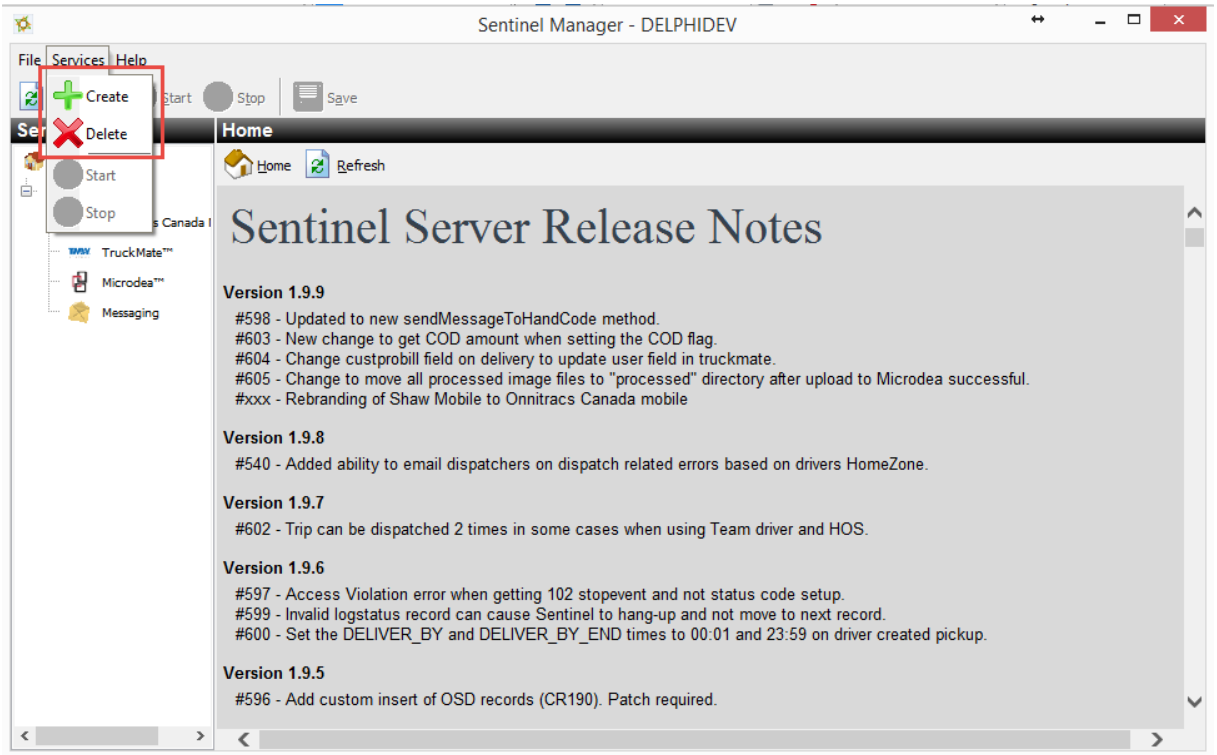


- Once completed run the Security Patcher in SQL Exec.

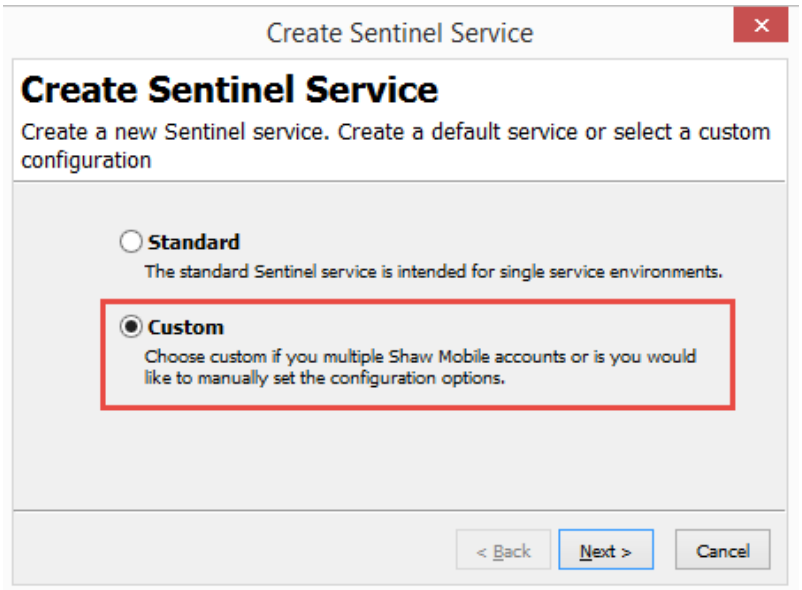
Creating an Instance of Sentinel

It is possible to create multiple instances of Sentinel with different configurations in the same GUI. The following will outline how to create a new instance of the service.

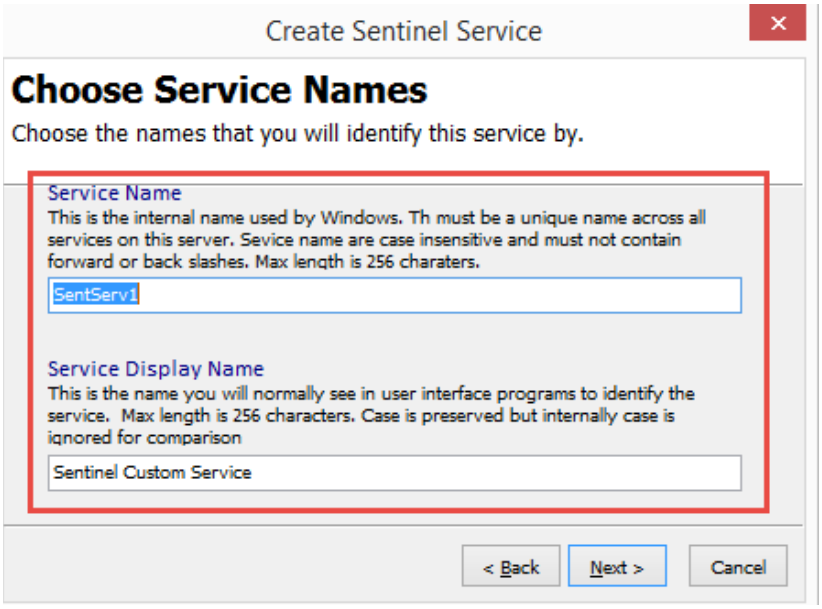
- Open the Sentinel GUI application.
- Select "Services" and "Create" to create a new instance of Sentinel.



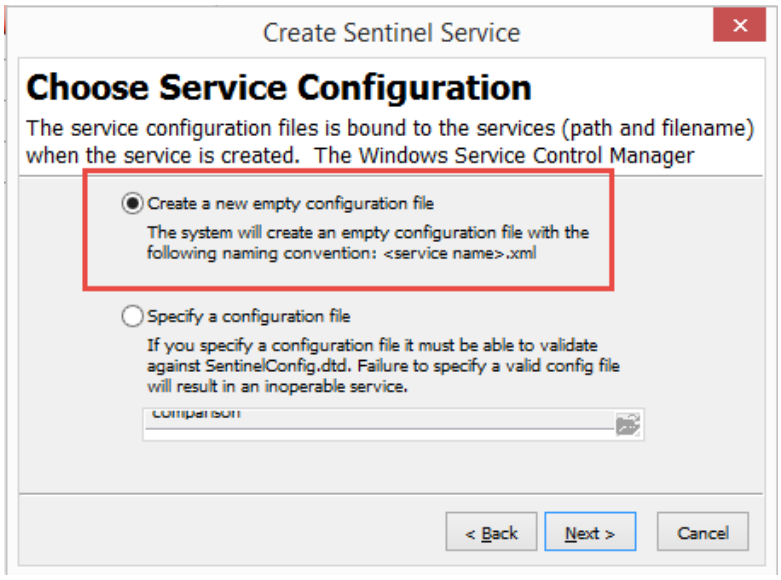
- Once in the "Create Sentinel Service" screen, select the radio button for the "Custom" service and select "Next"



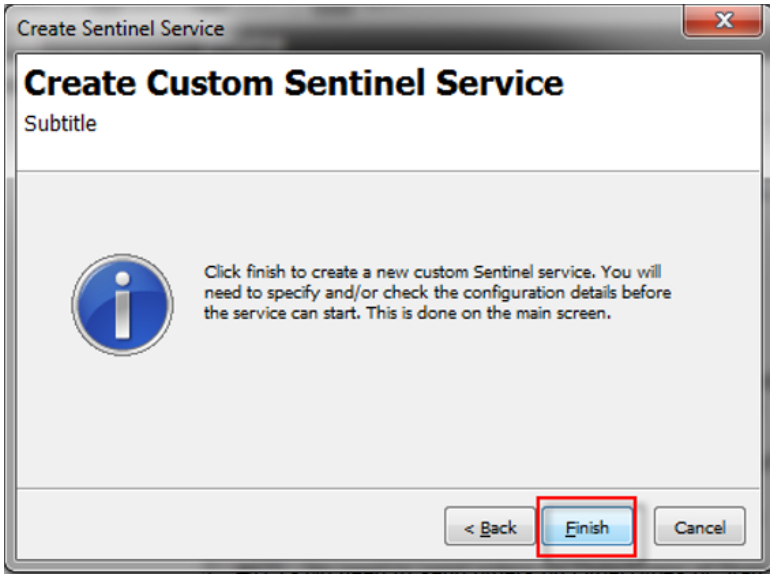
- Enter a Service Name. This is the service name that will be displayed in the Task Manager.
- Enter a Service Display Name. This is the name of the instance of Sentinel that will be displayed in the GUI application.



- Select the "Create a new empty configuration file" radio button. This will create a brand-new configuration file. If you have an existing file, select the "Specify a configuration file" option and enter the path towards the file. Select "Next."



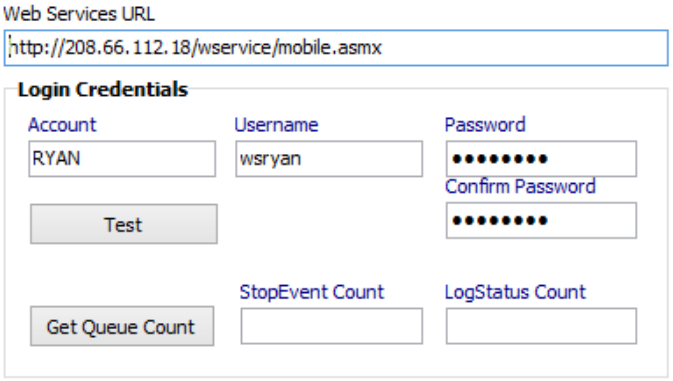
- You have now successfully created a new service. Select "Finish on the last screen.



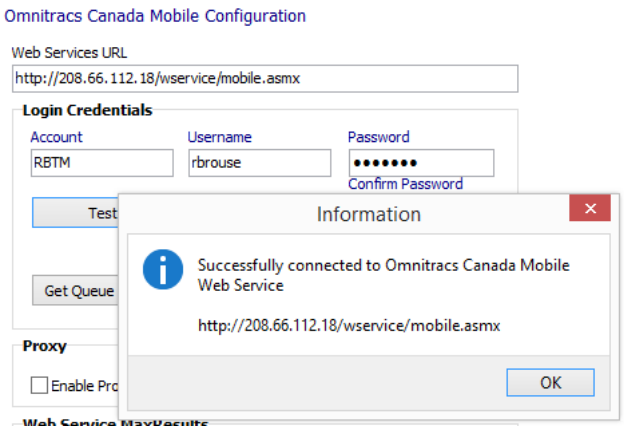
NOTE: You will not be able to start the service until you complete the configuration. The following sections outlines the Sentinel configuration options.

Omnitracs Canada Mobile Configuration

Connecting to the Web Service

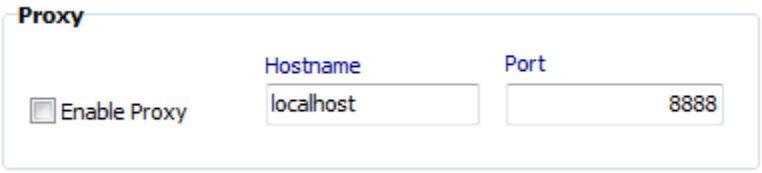


Once the service is created you will need to setup the connection to Omnitracs Canada's web service. Above are the default settings for Sentinel. The production Web Service URL is: http://myshawmobile.ca/wservice/mobile.asmx. If this is a Lab service it will need to be pointed to the Lab server at: http://208.66.112.18/wservice/mobile.asmx. The login credentials will be setup for you beforehand and provided by Omnitracs Canada support. Once the credentials and the correct URL are entered you can make sure you have a connection by clicking on the "Test" button. If successful, you will see a pop up stating that you are successfully connected to Omnitracs Canada's web service. The "Get Queue Count" button will display the amount of unhandled records currently in the Stopevent (status changes completed by the driver) and Logstatus (Logins completed by the driver) queues. Generally, a large queue would indicate an issue.



Proxy

Enabling the proxy will send all traffic from Sentinel through a proxy server. Enter the hostname and port you wish to use. Use this option to view the SOAP messages between Sentinel and Omnitracs Canada's web service.



Web Service Max Results

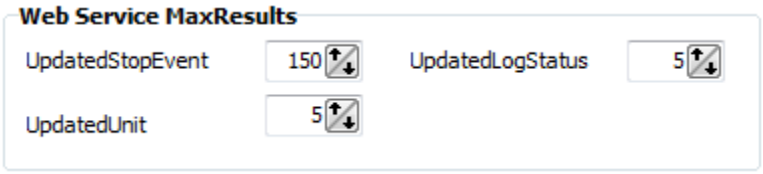
This option will allow the user to select how many records of a particular type they would like Sentinel to process at one time.

StopEvent - Status changes coming from the handheld to TruckMate.

LogStatus - Driver log in/out events from the handheld.

Unit - Returns handheld information used to update positions.

StopEventThreadCount - This dictates the number of threads that will simultaneously handle status changes coming back from the handheld into TruckMate.



Unplanned Stops

This option will insert the unplanned stop records into the SENTINEL.UNPLANNED_STOPS table in the TruckMate database. Unplanned stops are stops that are not on the driver's route. They can be generated by the driver manually or automatically based on some certain criteria. Speak with Omnitracs Canada support to setup this feature on the handheld.

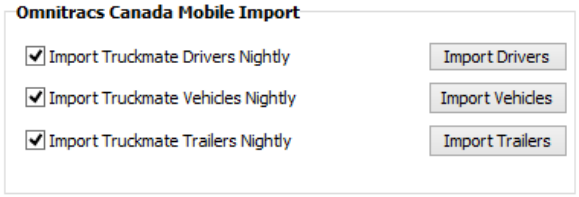
Trip Summary

This option will insert trip summary records into the SENTINEL.TRIP_SUMMARY table in the TruckMate database. The "Update in real time" option will update the table as the trip

summaries are completed on the handheld throughout the day. Otherwise the records are processed once a day at midnight by default. Trip summaries, if enabled on the handheld are done at the end of the day when the driver logs out. They will show a summary of the day's events.

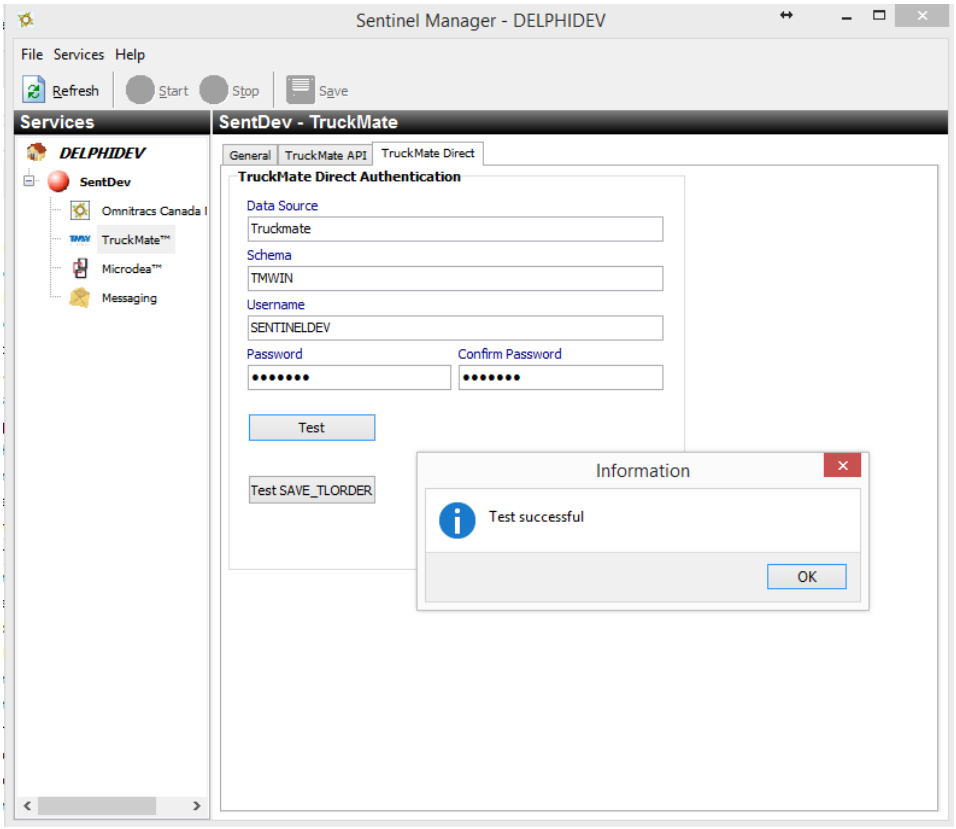
Omnitracs Canada Mobile Import

Enabling these options will allow you to automatically import all of the drivers and vehicles from TruckMate to the Omnitracs Canada Mobile system. They will automatically be done every night at midnight. Clicking the buttons next to these options will import the driver/vehicles right away.



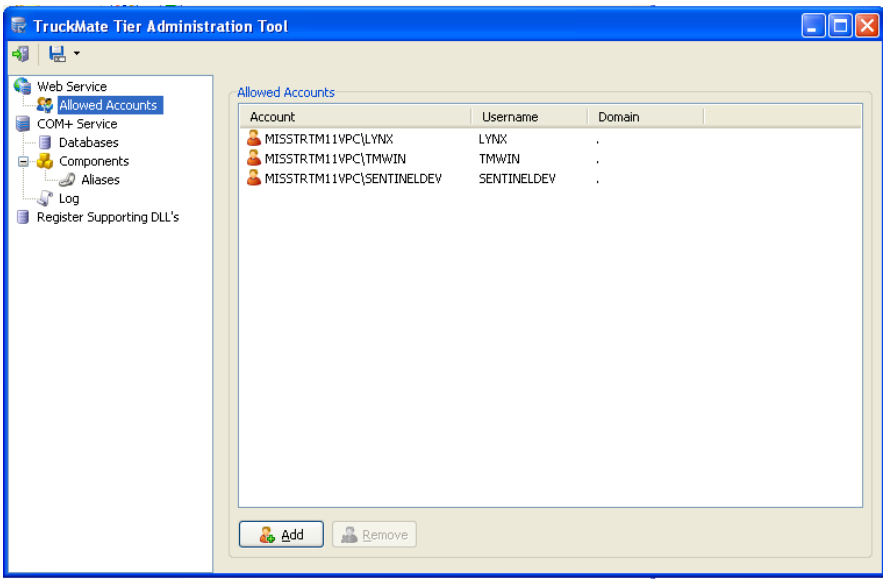
TruckMate Direct

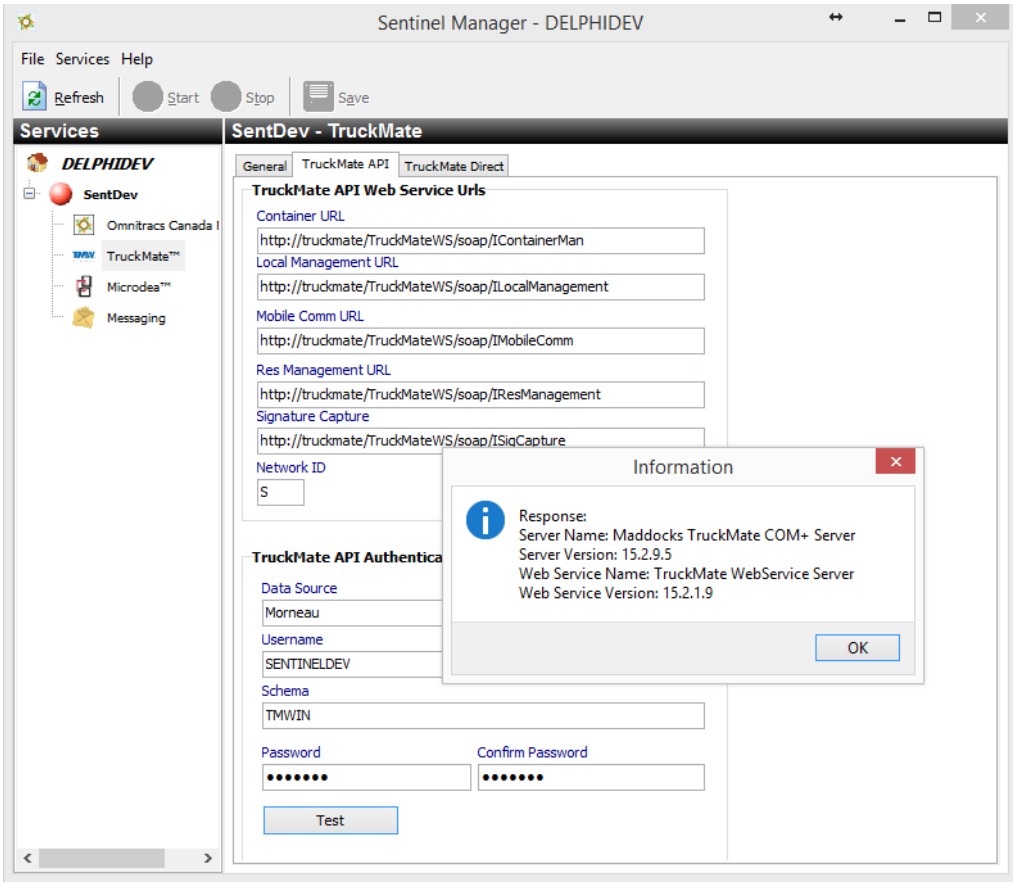
This section is where to set up the direct connection to the TruckMate database. Enter the Data Source path, Schema, Username and Password. The TruckMate user must be setup as a schema owner (LYNX or TMWIN in TruckMate 2012 and greater). Once the credentials have been entered click the "Test" button to verify the connection.



TruckMate API

Here you will enter the credentials to connect to the TruckMate API. The Web Service URL's should appear by default and remain unchanged except for the IP or domain where the API is located. It is recommended that a user is setup specifically for Sentinel. This way you will be able to see that the status changes from this user were made by Sentinel. This user must be setup as a schema owner. Make sure the user is setup in the allowed accounts of the TruckMate Tier Admin Tool as well to be allowed to use the API. Once the credentials are in place, click the "Test" button to test the connection.



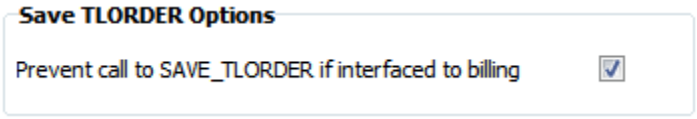


TruckMate General

Once the connections are set up, you must go through the general configuration options. The following section outlines these options:

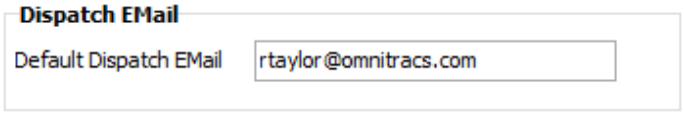
Save TLORDER Options

Selecting this option will prevent Sentinel from calling SAVE_TLORDER in the event the bill has already been interfaced to billing. If TLORDER.INTERFACE_STATUS_F > 0 SAVE_TLORDER will not be called.



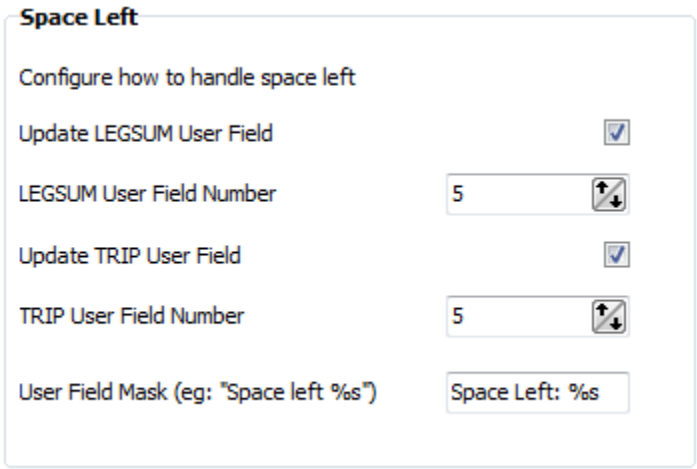
Dispatch Email

This is the address that dispatch related emails will go to. Emails include driver completed trip and is waiting for the next trip. If there is no next trip available.



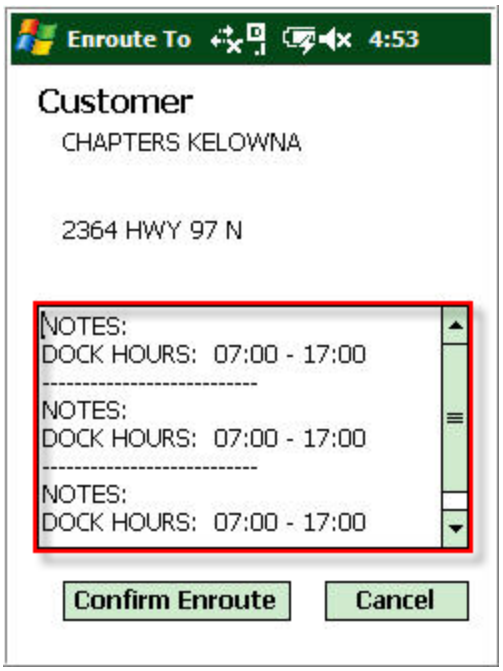
Space Left

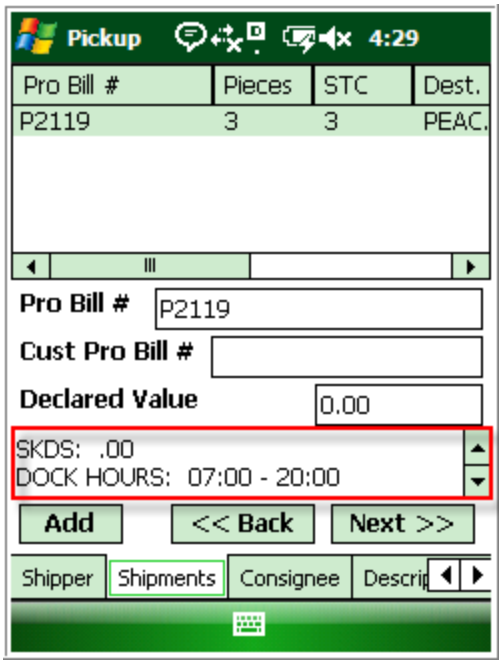
The space left from the handheld has the ability to update a user field in the LEGSUM or TRIP table. When you enable this option, you must specify which user field to update as well and the text that will be displayed in the field. Ex: Space Left: %s (%s is the variable that is passed from the handheld).



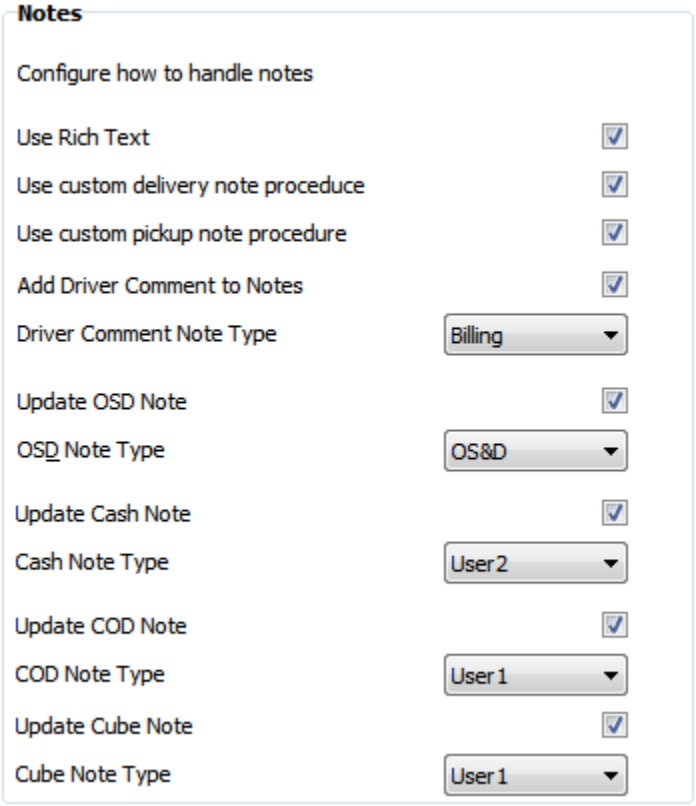
Notes

You have the ability to custom configure where you would like the notes that are passed back from the handheld to be placed in TruckMate. To enable a specific note type you must select the check box as well as selecting the note field that you would like the note to appear in TruckMate. Enabling the custom pickup and delivery notes options will allow you to write a custom procedure that will display notes for that particular bill on the handheld. The notes will appear in the Enroute screen as well as in the "Shipments" tab of a pickup or delivery.



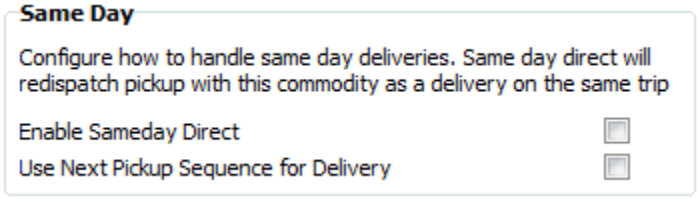


The rich text option enables the THE_NOTE_RTF field in the TruckMate NOTES table to be updated. Otherwise only the THE_NOTE field will be updated. Select this option to allow the notes to be visible in the "Notes" window in TruckMate.



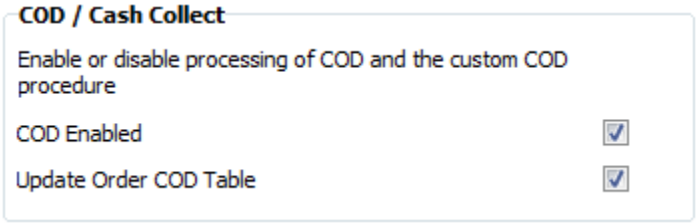
Same Day

Enabling the Sameday Direct option will allow Sentinel to check if a bill meets the same day criteria upon a pickup being completed and updated by the handheld. If these criteria are met, Sentinel will send a same day delivery for that particular bill to the handheld. The criteria are defined in the CUSTOM_SAME_DAY procedure installed in the TruckMate database. It can be configured to be anything the user wishes. Ex: If the service level on the bill is "SAMEDAY" send same day pickup for that bill. The "Use Next Pickup Sequence for Delivery" option will add the deliveries at the next available pickup sequence number (50+ numbers generally used for pickups unless otherwise specified in the trip options).



COD /Cash Collect

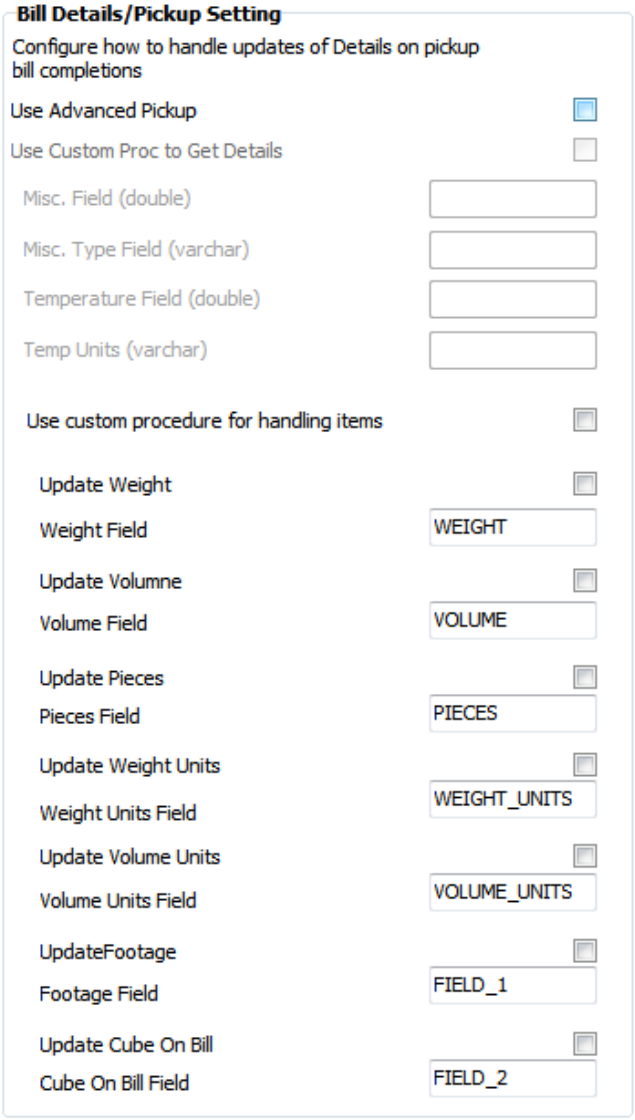
Enabling the COD feature will allow you to alter the CUSTOM_ORDER_COD procedure to add a COD to a particular bill on the handheld based on some certain criteria. If the criteria are met the stop on the handheld will display a COD screen on the final tab. The update order COD option will update the ORDER_COD table in the TruckMate database when the driver completes the COD stop on the handheld.



Bill Details

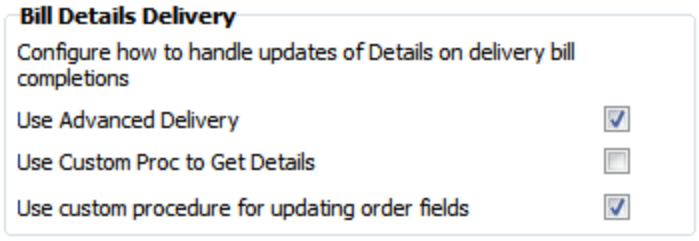
This option gives you the ability to configure whether the Bill Details on a pickup will come back and update a defined field in the TLDTL table in TruckMate. You can either indicate each of the fields that you would like updated by checking the box and entering the TLDTL field name or by selecting the "Use custom procedure for handling items" check box. If you select this box, the CUSTOM_PICKUP_ITEMS and the CUSTOM_PICKUP_AFTER_ITEMS custom procedures will get called to handle the items. This allows you to customize how items are handled. By default, the fields will update the first record in TLDTL. The "Use Advanced Pickup" option is used when using the advanced pickup screens on the handheld. When enabled this option will also allow you to configure which TLTDL fields should be passed to Omnitracs Canada Mobile in the Misc, Misc Type, Temperature and Temp Units fields. Selecting "Use Custom Proc to Get Details" will allow the

CUSTOM_GET_UNHANDLED_BILL_DETAILS procedure to be called. This procedure is used to get fields from the TLDTL table and custom map them to Omnitracs Canada OrderLineItems fields when using the advanced pickup functionality.



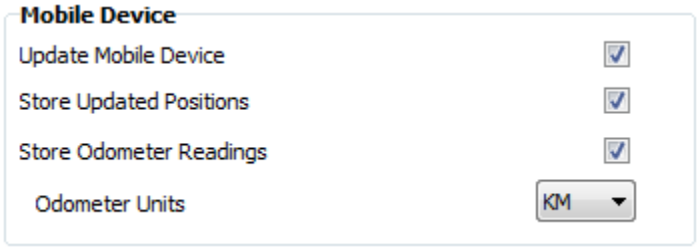
Bill Details Delivery

Enabling the "Use Custom Proc to Get Details" option will call the CUSTOM_UPDATE_DELIVERY_ORDER_DETAILS procedure for each order on deliveries when completed. The user can configure this procedure to update the desired fields in TruckMate on stop completion. The "Use Advanced Delivery" option is used when sending OrderLineItems or LineItemDetails to a delivery on the handheld. Selecting "Use Custom Proc to Get Details" will allow the CUSTOM_GET_UNHANDLED_BILL_DETAILS procedure to be called. This procedure is used to get fields from the TLDTL table and custom map them to Omnitracs Canada OrderLineItems fields when using the advanced delivery functionality.



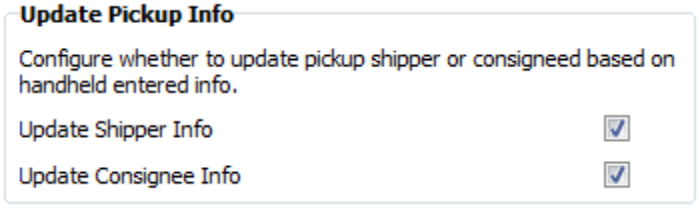
Mobile Device

The mobile device settings will allow you to store vehicle information. If "Store Updated Positions" is enabled Lat/Long's of the vehicle will be shown in the "Status" tab in customer service. The "Store Odometer Readings" option will allow odometer readings to be stored in the "Hub" in "Power Unit Profiles". This info will get stored on logout and will only be saved if the value is > the last value recorded for that vehicle. Odometers can be stored in either Kilometers or Miles.



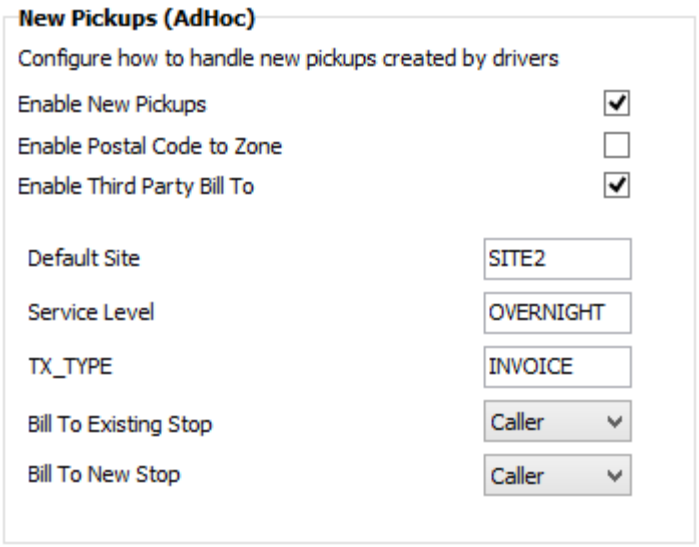
Update Pickup Info (Depricated)

Enabling these options will allow the driver to update the shipper or consignee info in TruckMate from the handheld.



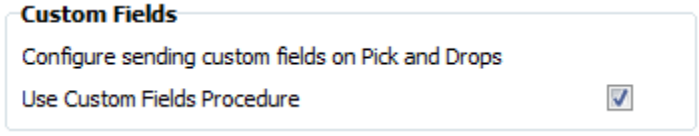
New Pickups (AdHoc)

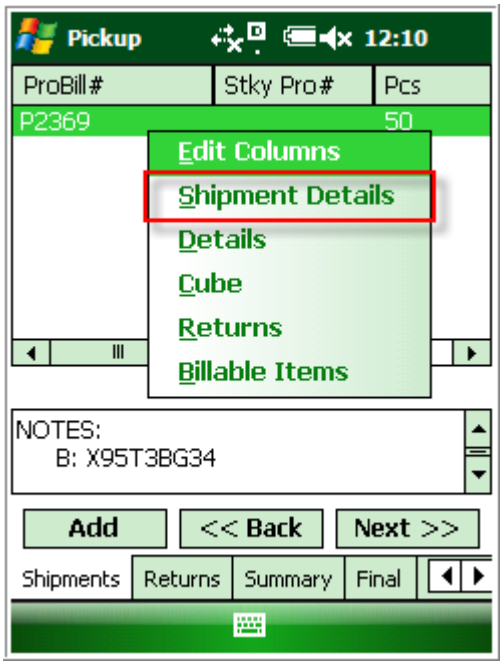
This option enables the driver to be able to add pickups on the fly from the handheld. When enabled the pickup info will come back and create a new freight bill in TruckMate with the defined service level and TX_TYPE. If the "Enable Postal Code to Zone" is checked, the bill's zone will be populated with the postal code entered by the driver for the consignee. This will also give you the ability to specify the "Bill To" on new pickups as well as bills added to existing stops. The "Enable Third Party Bill To" option will set the new bills "Bill To" using the "3rd Party Billing" code setup in the Customer & Vendor Profiles. "Default Site" if setup will be the SITE_ID that any new ad hoc pickup will be associated to.



Custom Fields

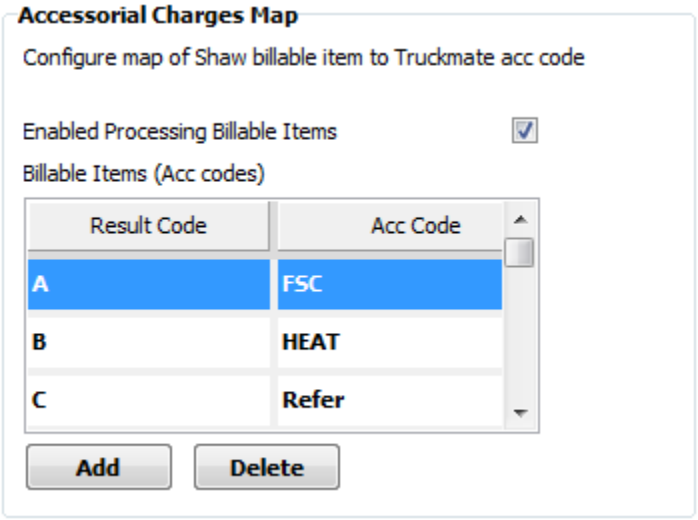
Enabling the Custom Fields option will call the CUSTOM_ORDER_USER_FIELDS procedure when sending stops to the handheld. This procedure will allow you to put some information into the Cust Pro Bill / Sticky Pro #, Commodity, Mode, and Comm Type fields in the "Shipment Details" on the handheld.





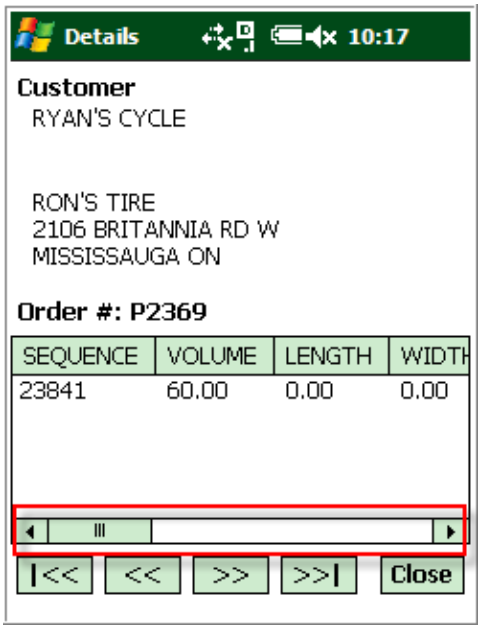
Accessorial Charges Map

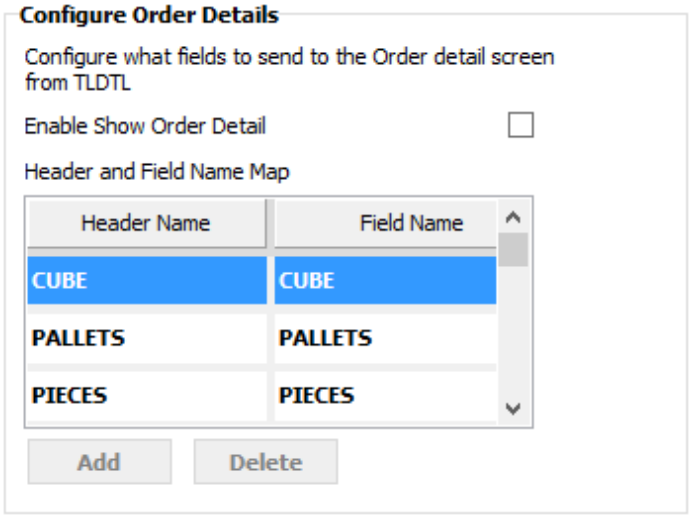
When enabled this option will map the result codes (maps to what is displayed on the handheld) to the accessorial code in TruckMate. Speak with Omnitracs Canada support when setting up this option.



Configure Order Details

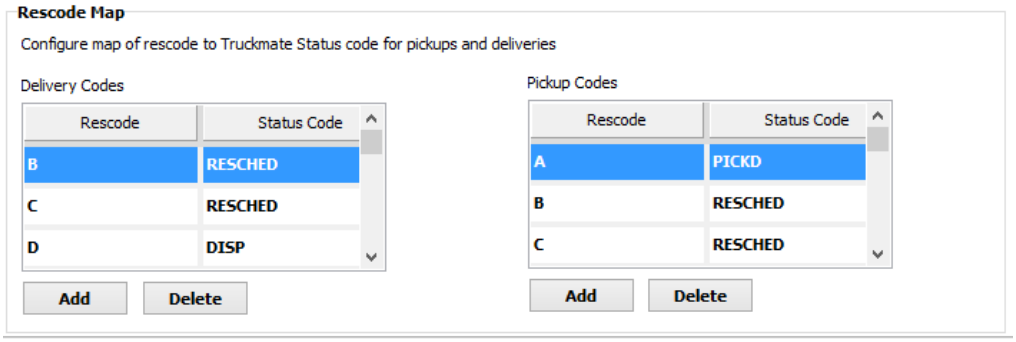
These fields dictate what will be displayed in the "Details" for a shipment on the handheld. The option must be enabled as well as adding the field where the item is to be picked up from the TLDTL table in TruckMate. The TLDTL fields that are available are COMMODITY, DESCRIPTION, WEIGHT, VOLUME, LENGTH_1, WIDTH, HEIGHT, PIECES, PIECES_UNITS, DANGEROUS_GOODS, NAME, PIECE_UNIT_NAME, CUBE and PALLETS.





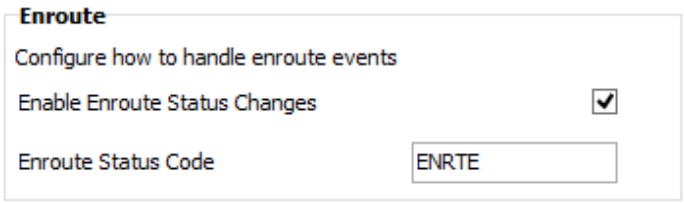
Rescode Map

This option will map the stop completion statuses that are displayed on the handheld to the status code in TruckMate. It can be setup based on Pickups and Deliveries. Trailer drops are considered deliveries and trailer picks considered pickups. Speak with Omnitracs Canada support when setting up this option.



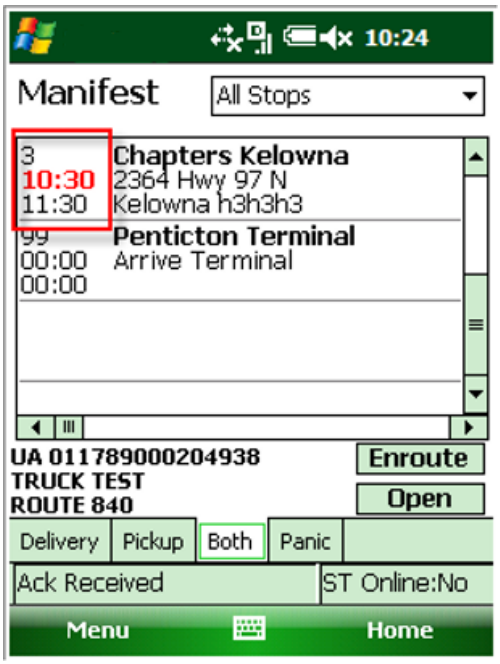
Enroute

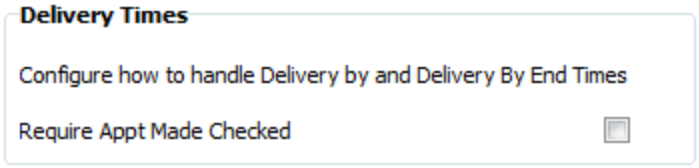
The Enroute status will enable the dispatcher to know which stop the driver is heading to. This option can be turned on/off as well as setting up the status code that will be displayed in TruckMate.

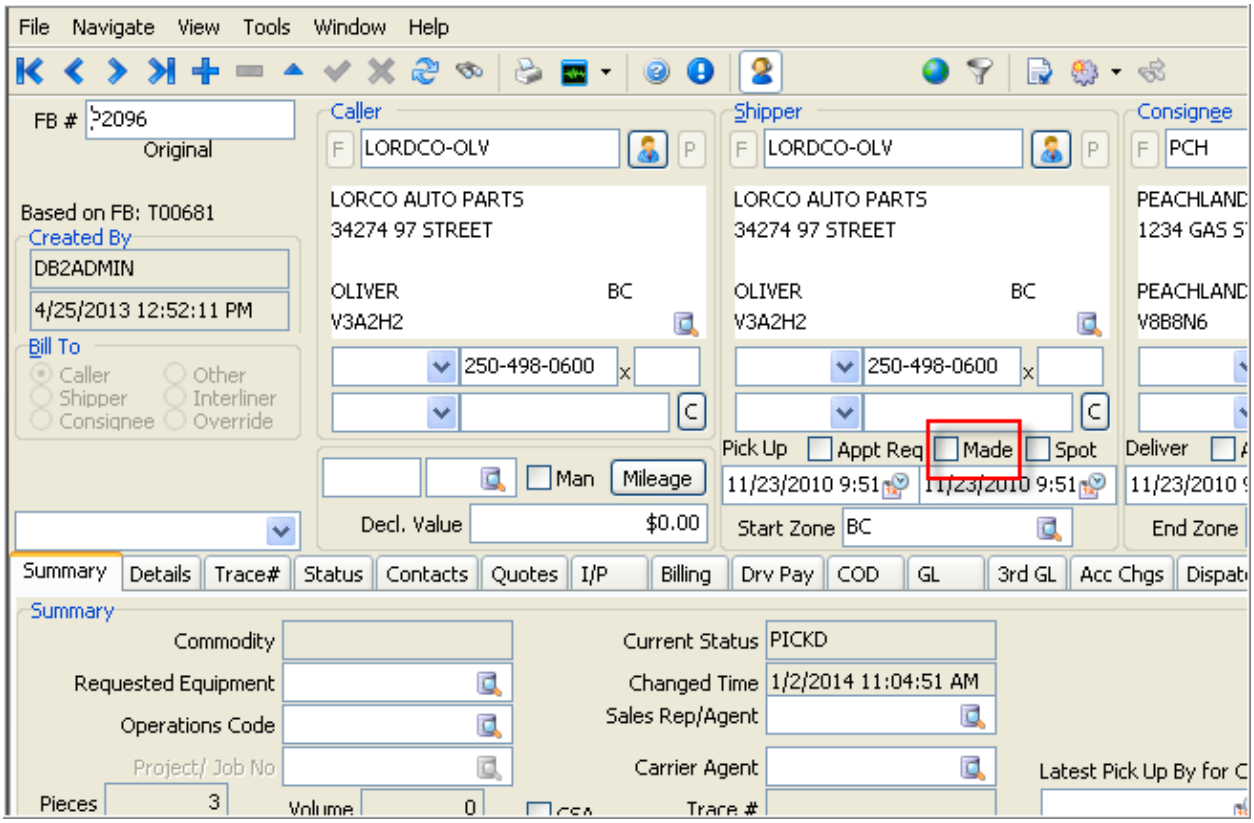


Delivery Times

The handheld will display the DELIVER_BY and DELVERY_BY_END times on delivery stops and PICKUP_BY and PICKUP_BY_END times on pickup stops to the left of the stops in the manifest screen. If the "Require Apt Made Checked" is selected, the times will be sent to the stop only when the "Made" check box is selected on the bill in Customer Service.

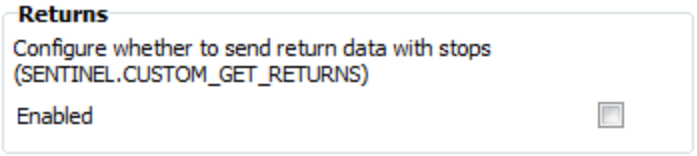






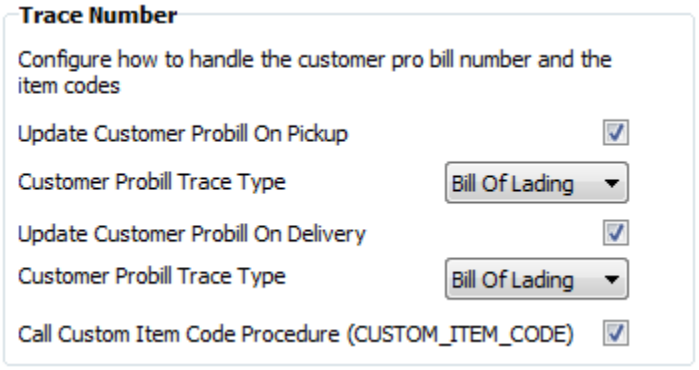
Returns

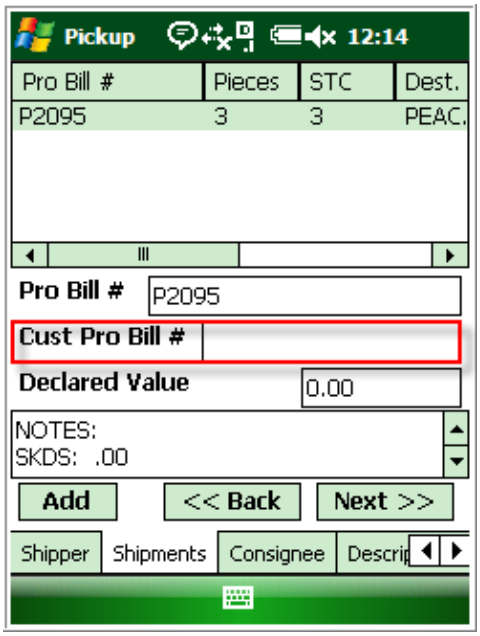
This option is used to send return data to a stop. This will allow the CUSTOM_GET_RETURNS procedure to be called when creating a stop.



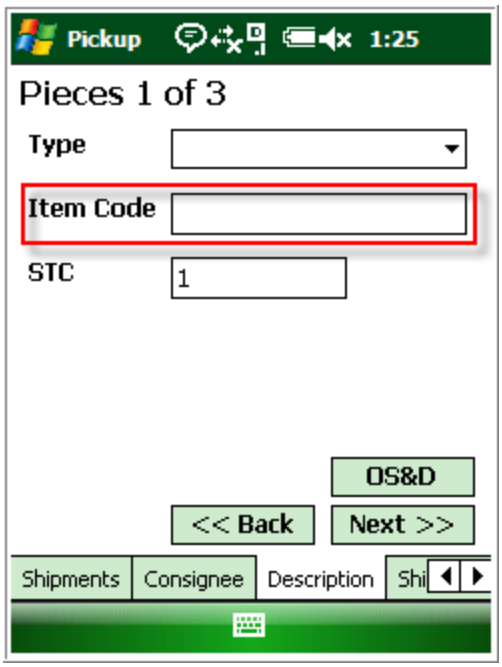
Trace Number

This will allow you to update the TRACE table in TruckMate with the info entered into the "Cust Pro bill" field on the handheld. You will need to select the trace type as well as enabling the option.





The "Call Custom Item Code Procedure" will allow you to alter the CUSTOM_ITEM_CODE procedure to handle the item codes that are entered into the "Item Code" field for pickups on the handheld.



Trip Options

Automatically send next trip will send the next trip that is waiting for that particular driver once he has completed his first trip. The driver will not have to log out of his first trip and then into the next one. The new trip will just automatically go out to the handheld. If you select the use custom procedure option, it will check the CUSTOM_GET_NEXT_TRIP procedure for the criteria of what is considered as the next trip for that particular driver. If the trip is not available for that driver before the next trip expiration minutes runs out, it will not get sent. The driver will then need to log out and back in with the new trip number.

The "Trip Dispatch Code" is the status that the trip will change to when it is dispatched out to the handheld through Sentinel.

The "Get Bills Type" drop down will allow you to select which method to sequence the trip. Select "CITYD_TRIP_DETAILS" if you wish to sequence the stops on the handheld the way that they are sequenced in the drill down (CTRL-D) in TruckMate. Select "TLORDER_TERM_PLAN" if using the CrossDock application. This will cause Sentinel to sequence the trip by the route sequence.

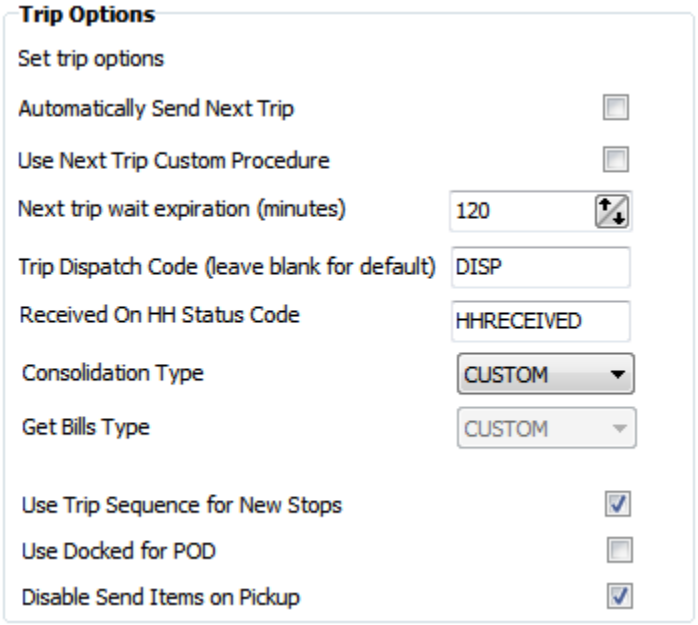
"Use Trip Sequence for New Stops" will add pickups to the handheld in the next logical sequence number (not numbers 50 plus). Pickups are added at numbers 50 plus by default.

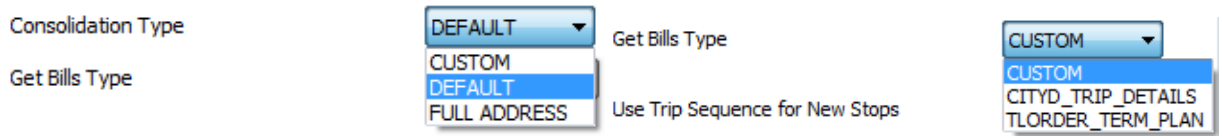
The "Consolidation Type" option will give the user the option on how they would like the bills to be consolidated. When the "CUSTOM" option is selected Sentinel will call CUSTOM_GET_TRIP_BILLS to decide which bills will get consolidated on dispatch. This procedure will insert into the SENTINEL.TRIP_BILLS table and consolidate bills with the same

sequence number. The CUSTOM_GET_SAME_STOPID procedure will decide what bills will be consolidated after the initial dispatch to the handheld. Sentinel uses the Customer Code and then Customer Name for consolidation by default. If the "FULL ADDRESS" option is selected, Sentinel will verify the full address for consolidation.

"Use docked for POD" allows Sentinel to process images of stops that were completed with a status behavior of "Docked". You can disable sending items on a pickup to improve overall performance.

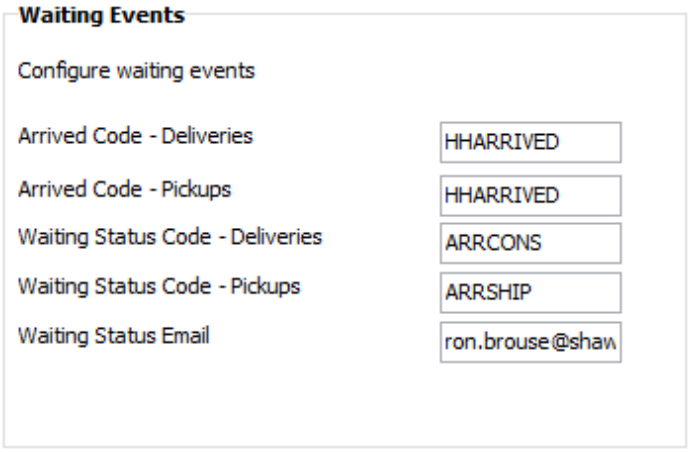
"Received on HH Status Code" will allow you to specify the status that the bill is to change to once it is received on the handheld. If this is not specified it will be the default dispatched behavior.





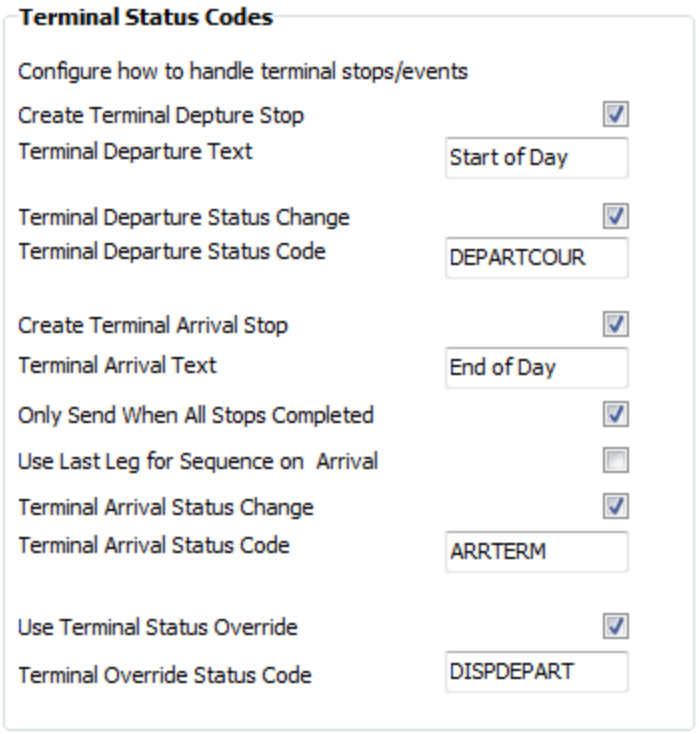
Waiting Events

In this section, you can configure the status that the bill will be changed to when the driver arrives at a stop. Sentinel can also change the status of the bill and send an email when the driver is considered to be waiting at a stop for a predefined period. Sentinel determines "waiting" based on calling a custom view SENTINEL.WAITING_ACTIONS.



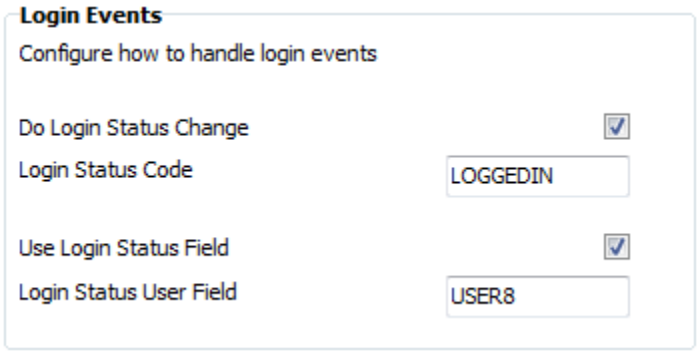
Terminal Status Codes

This option will allow you to send a Terminal Arrival and a Terminal Departure stop to the handheld. You are able to customize the text that is displayed on them as well as indicating the status that the trip will be changed to upon completion. If the "Terminal Arrival Status Code" is left blank, Sentinel will try to look up the status using the Delivery ResCode map. By default, the terminal departure location will be displayed as the start zone of the first leg and the Terminal arrival location will be the end zone of the first leg. The terminal arrival location can also be displayed as the end zone of the last leg on the trip by selecting the "Use Last Leg for Sequence on Arrival" option. It is also possible to suppress sending the Terminal Arrival stop until all stops are complete (including same day stops). This will prevent the driver from completing the trip before all the stops have been completed.



Login Events

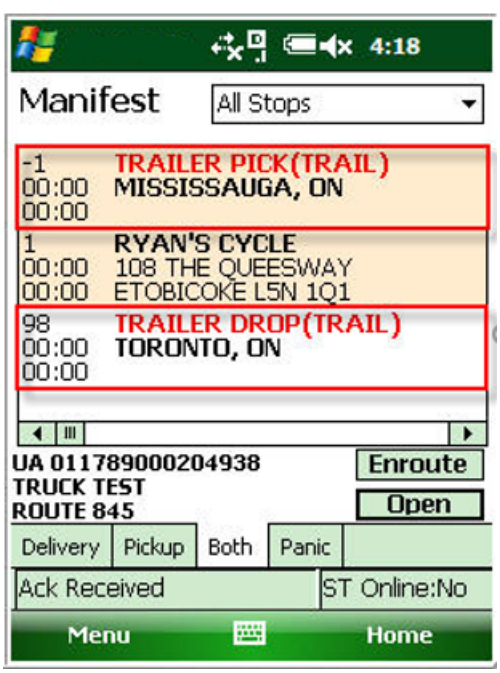
Enabling this option will allow Sentinel to change the driver's status upon login. You must enter the status code you wish the driver to change to. You can also display the driver's login status in a defined field in the DRIVER table in TruckMate.

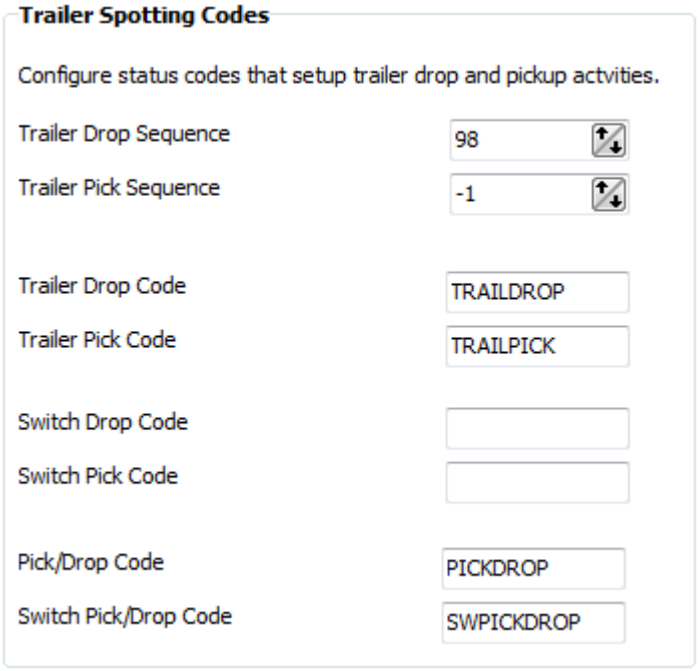


Trailer Spotting Codes

This section allows you to dictate the trip status that is to include a trailer activity on the handheld. The user would change the status of the trip in TruckMate prior to it being dispatched to the handheld. If Sentinel sees one of these statuses it would send out trailer pickup/drop stops depending on the status code. The Trailer drop or Trailer Pick status would send either a single trailer pickup activity or a single trailer drop activity with all the associated bills. The Switch Pick and Switch Drop codes would be the same as the previous codes but would NOT include all the bills on the handheld. This status is used when you do not want the

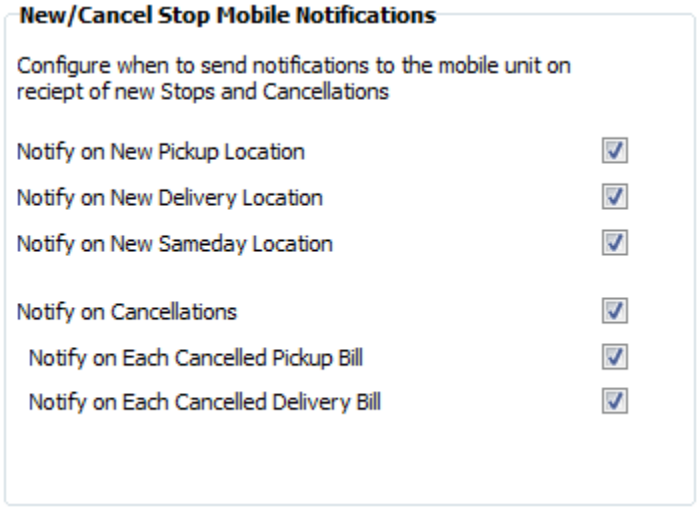
driver to complete the bills on a trip (terminal switch). The pick/drop code would send both a trailer pick and a trailer drop stop to the handheld as well as the associated bills. The Switch Pick/Drop would not include the bills. You can also configure the sequence that you would like the trailer stops to be displayed on the handheld. Pick/Drop Ex:





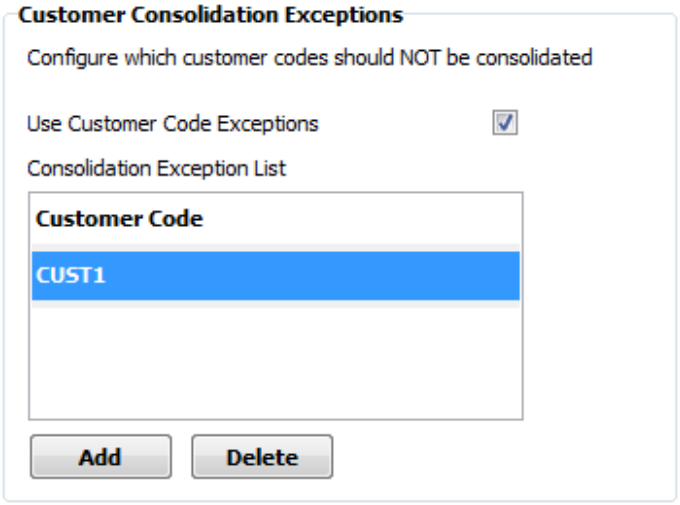
New/Cancel Stop Mobile Notifications

This section allows you to configure exactly which messages you would like the driver to see on the handheld. Cancellations can be sent per bill or only when the entire stop is cancelled.



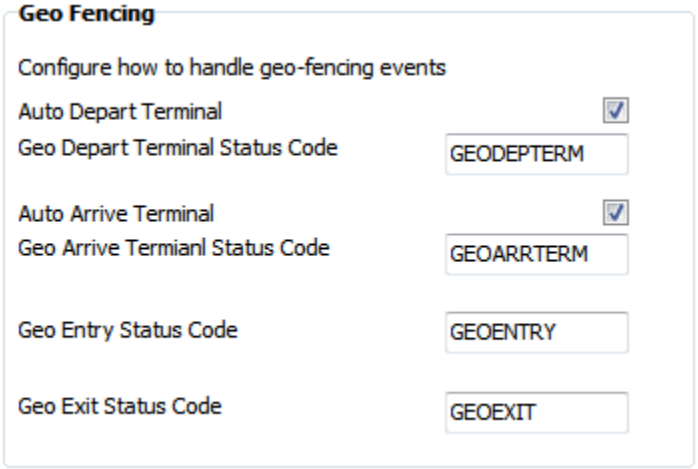
Customer Consolidation Exceptions

Enabling this option allows you to manually enter customer codes that you would not like to be consolidated on the handheld. Use this option for miscellaneous codes that are associated to many customer locations.



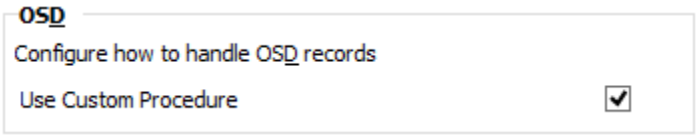
Geo Fencing

Geo fencing will allow Sentinel to make status changes to the bills or trip based on geo fence events. Geo entry and geo exit will change the status of the bill to the specified status code when the driver enters or exits the geo fence at a particular stop. This is dependent of the geo fence being setup correctly at that specific customer location in the www.myshawmobile.ca/*CustomerName* portal. The "Geo Depart/Arrive Terminal Status Code" will be applied to the trip when the driver leaves or arrives at a terminal location. Selecting the "Auto Depart/Arrive Terminal" check box will automatically apply the "Geo Depart/Arrive Terminal Status Code" to the trip and remove the stop from the handheld once completed. The handheld will also specify that this is enabled by adding "Auto" to the terminal stop.



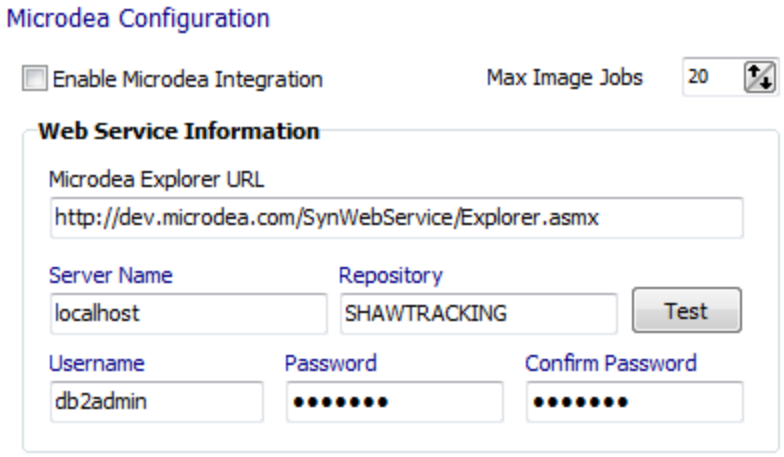
OSD

Selecting the “Use Custom Procedure” option in the OSD section will call the INSERT_OSD procedure to customize how OS&D records are handled instead of doing the standard insert into the OSD table.



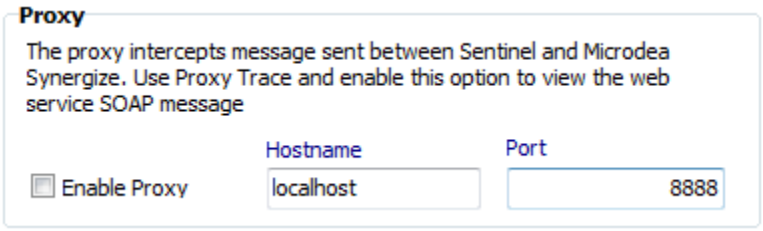
Microdea Configuration

Sentinel provides a built-in integration to Microdea. Once the report is built, Sentinel will attach the signature image and upload it to your Microdea repository. You will need to enter your web service credentials in the required fields. Once in place you can use the "Test" button to verify the connection to Microdea. The max image jobs option allows you to configure the number of images that Sentinel will handle at one time.



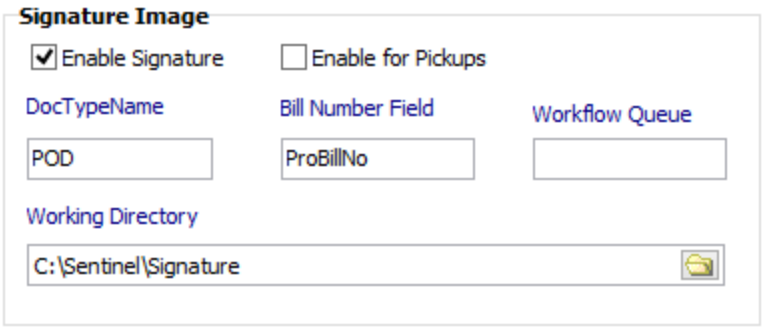
Proxy

The proxy allows you to route messages from Sentinel to Microdea through a proxy to view the web service SOAP messages.



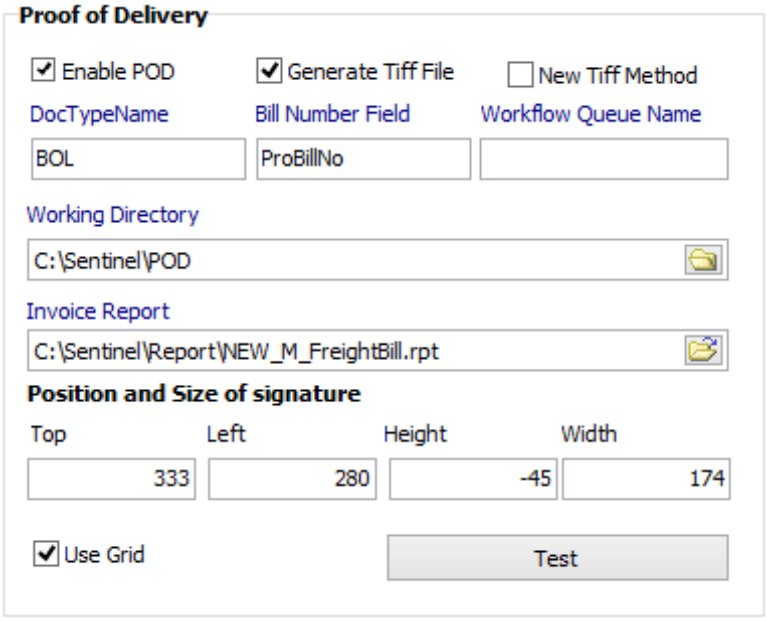
Signature Image

Enabling the signature image will allow the signature to be attached to the POD. You can also set the path to the folder where the image will be stored.



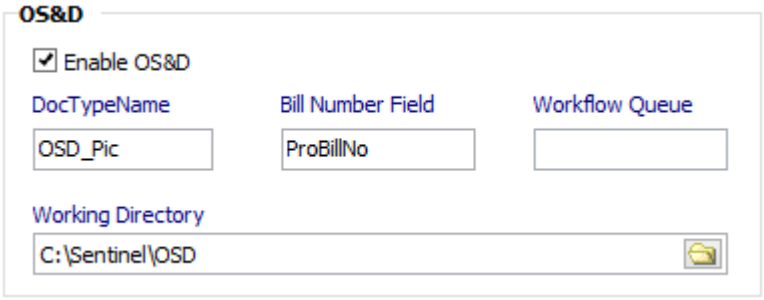
Proof of Delivery

Once enabled, this option will attach the signature image to your POD. You will need to enter the path to your report as well as entering the coordinates (top, left, height, width) of the signature image. You can use the "Test" button to view the position of the image on your report. You are also able to generate a .tiff file from your image as well selecting the "New Tiff Method" check box that will convert .tiff using the internal QuickPDF library, works on server 2008 only.



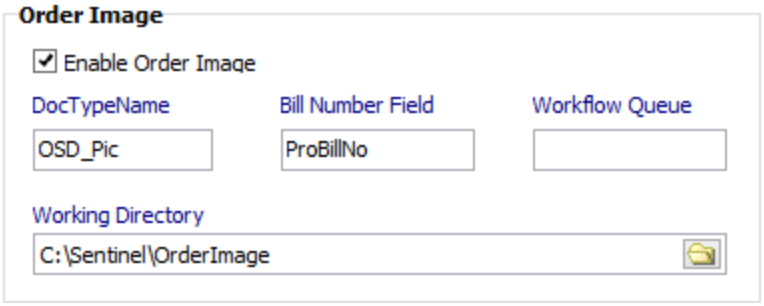
OS&D

This option will enable you to store OS&D images on your machine running Sentinel. You must enter the path to the folder that the image will be stored in.



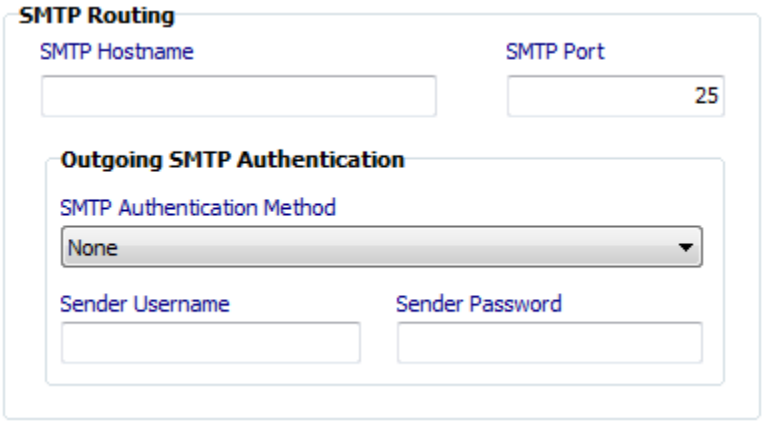
Order Image

The Order Image section will allow images captured on the handheld at the bill level to be uploaded to Microdea and indexed by the bill number. You must enter the path to the folder that the image will be stored in.



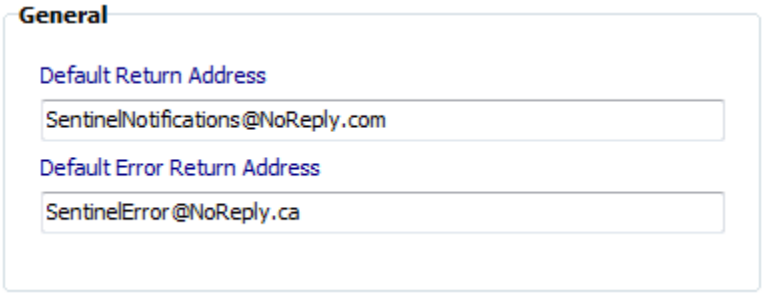
SMTP Routing

This section will allow the user to connect Sentinel to a SMTP server to send email messages. Enter the Hostname, Port and SMTP authentication information to connect to your server.



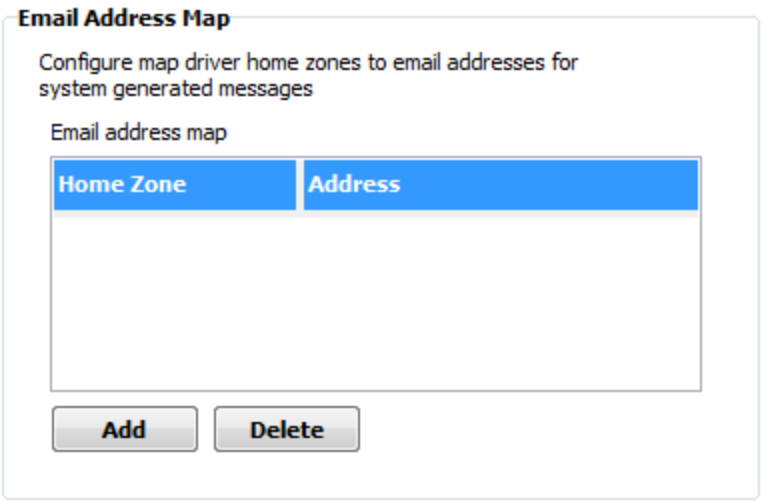
General

This will give you the option to enter the return address that is shown to the recipient when an email is sent from Sentinel. Enter the Default for Notifications and Errors.



Email Address Map

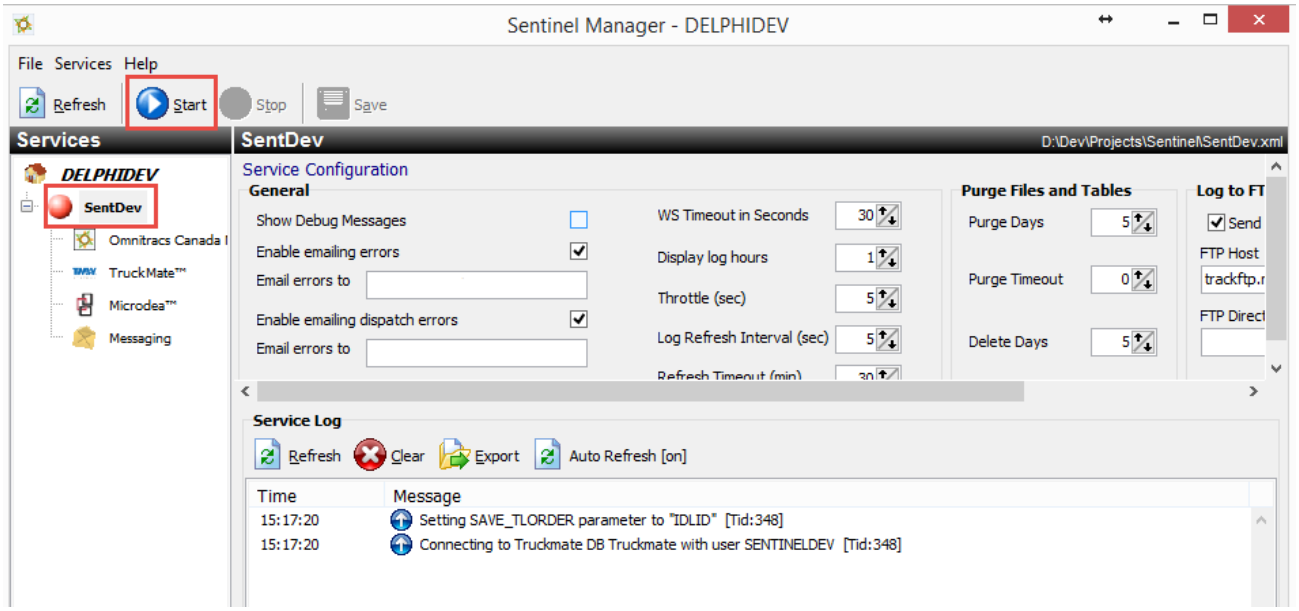
Mapping email addresses to specific zones will allow Sentinel to only send driver related messages to the email address that is associated to that driver's home zone. For example, if the driver is working out of the Toronto terminal and you want messages related to that driver to only be sent to torontodispatch@abccompany.com. You would map the driver's "Home Zone" as setup in the Driver Profile in TruckMate to the required email address. If the drivers home zone is not setup in this map it will use the "Default Dispatch Email" in the TruckMate configuration.


Email Address Map
Configure map driver home zones to email addresses for system generated messages
Email address map
Home Zone
Address
Add
Delete

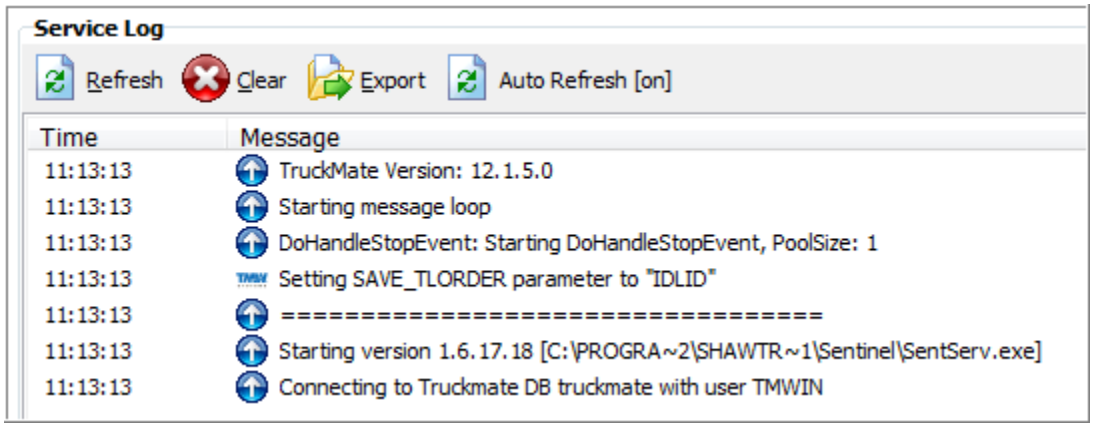
Starting the Service

Once you have configured the service and verified that the connections were successful you can now start the service.

Click on the name of the instance you wish to start and select the "Start" button at the top of the screen.



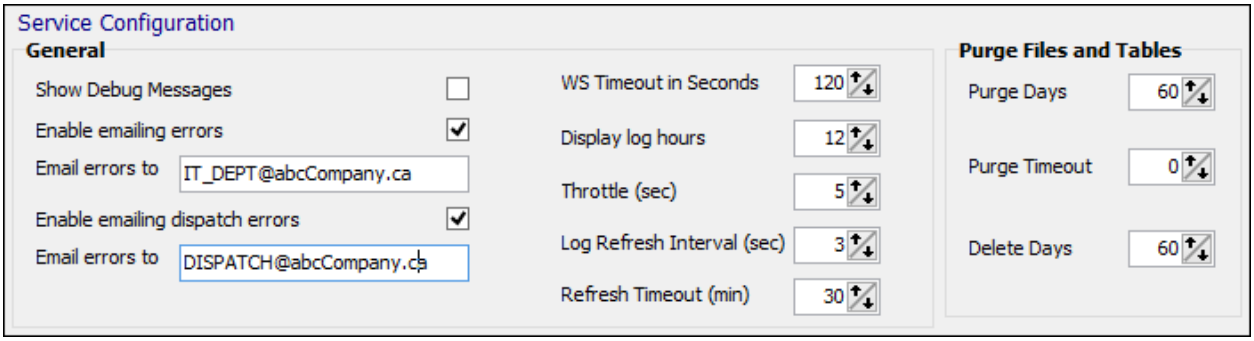
You will then see the circle beside the instance name turn green and a few logs will appear indicating that the service has started successfully.



Additional Configuration

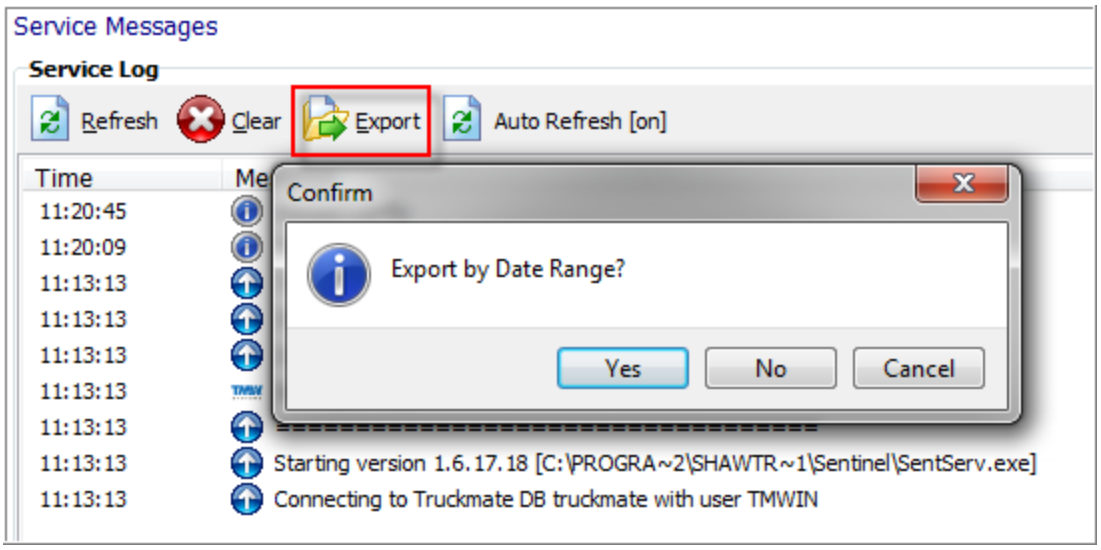
On this screen, you will be required to setup an email address that errors and dispatch related error emails from Sentinel will be sent to. Dispatch errors will be related to trip/bill status changes that can be corrected by the dispatchers. These emails will use the "Email Address Map"(see the Messaging Configuration section of this document) to be sent to the appropriate

dispatch email address for the driver's home zone. If a home zone isn't setup, the default address setup in this box will be used. The "Display Log Hours" option will give you the ability to configure the log hours that are displayed in the GUI. "WS Timeout in Seconds" dictates the amount of time that Sentinel will wait for Omnitracs Canada's web service to respond before it will timeout. The "Throttle in seconds" is the time the service will wait at the end of each main loop. The "Purge Files and Tables" section will give the user the ability to configure the number of days (Purge Days) that the info will be held in the SENTINEL schema tables in the TruckMate database. The "Purge Timeout" is how long Sentinel will wait when executing the SENTINEL.PURGE_TABLES procedure. A value of 0 in this field will be an infinite timeout value. All temporary image files (OS&D, POD, and Signature) older than the "Delete Days" setting will be deleted from the temporary directories. The clean-up happens at midnight daily. The "Log Refresh Interval" can be configured to allow a determined amount of time between refreshes. The "Refresh Timeout" will allow the GUI to stop refreshing the log after the configured interval to cut down on resources in the event the application is left open. Contact Omnitracs Canada support before changing any of these settings.

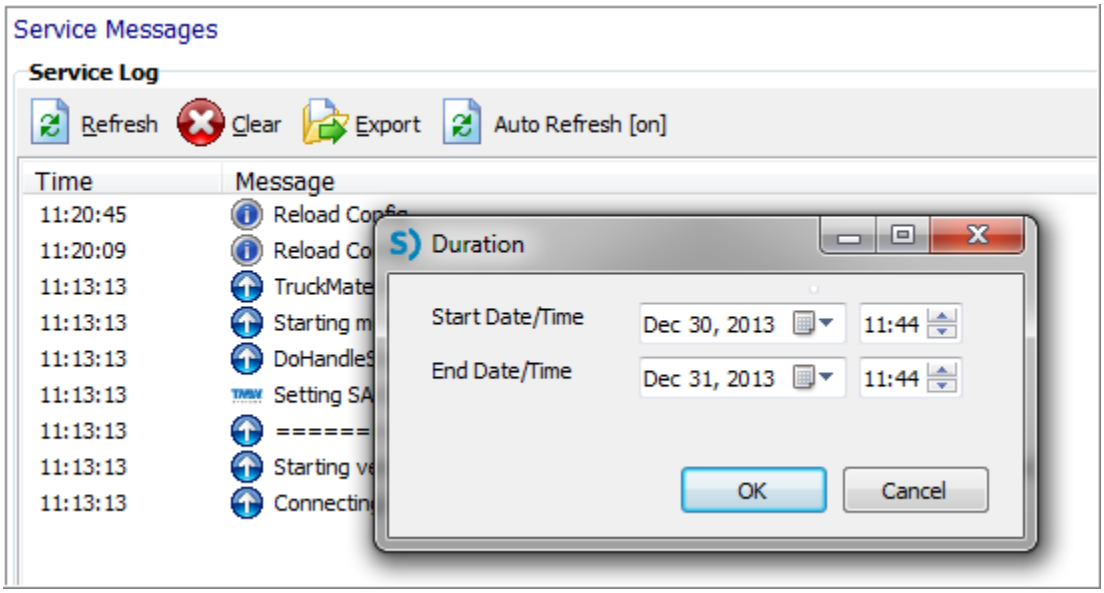


Exporting the Log

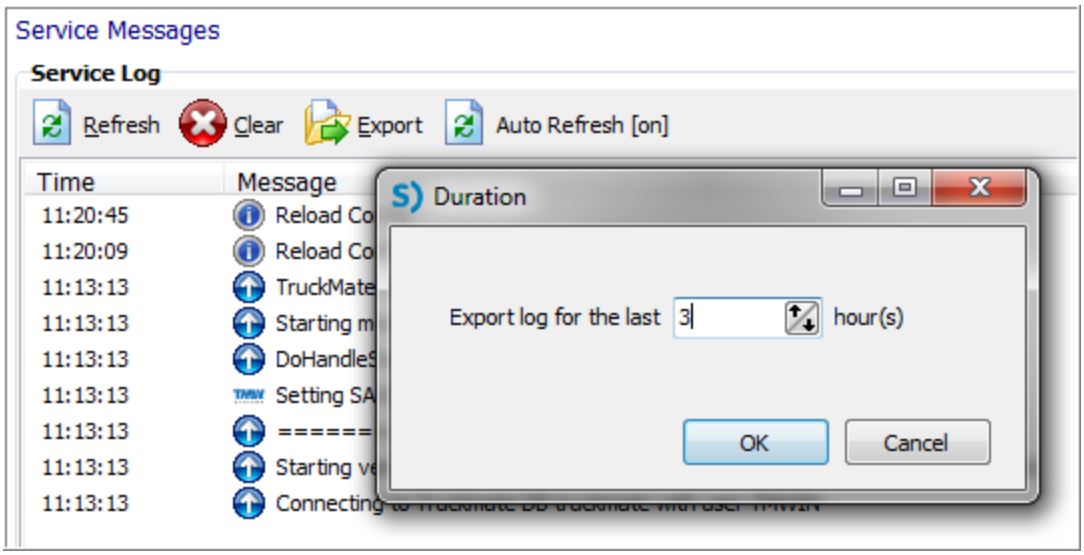
There are 2 ways to export the Sentinel log. To do so, click on the "Export" button. You will be asked if you wish to export by date range. If you select "No" you will be able to export the log for the past "x" number of hours.



Exporting by date range



Exporting by the last "x" number of hours



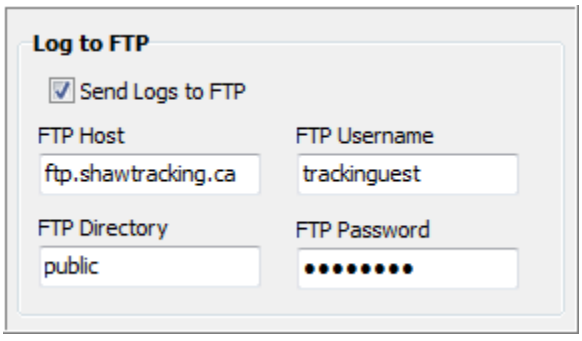
Exporting the log will produce an xml file with the desired information in it. This is generally used by Omnitracs Canada support for troubleshooting purposes. The option is also given to automatically send the Log to Omnitracs Canada's FTP site when exporting by selecting the "Send Logs to FTP" option. You will be required to input the path to the site as well as the login credentials. Use the below credentials unless instructed to do otherwise by Omnitracs Canada Support. Once this is setup, it is also possible for Omnitracs Canada to export the logs remotely.

FTP Host: ftp.shawtracking.ca

FTP Directory: Public

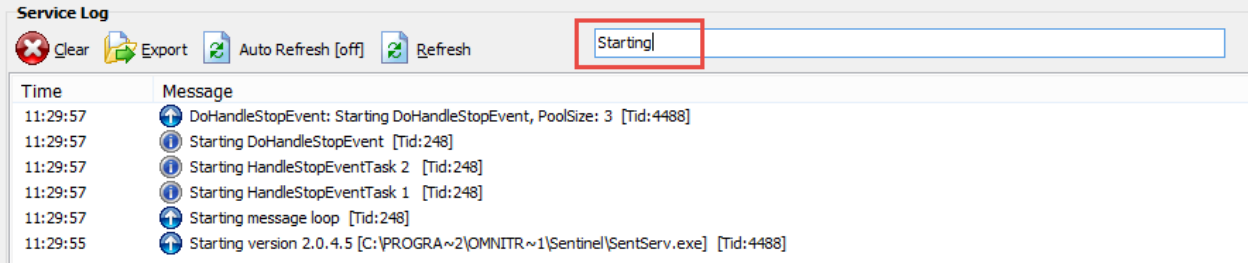
FTP Username: trackinguest

FTP Password: tracking



Searching the Log

Searching the log in the GUI is possible by entering a search string in the search text box and starting/stopping the log. This will return all the logs that match the entered string.



CUSTOM_DELIVERY_NOTES & CUSTOM_PICKUP_NOTES

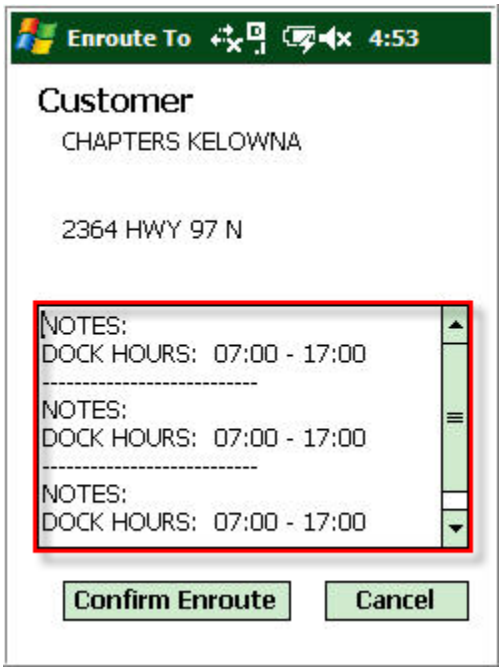
The delivery & pickup notes procedures are used to place notes from TruckMate on the handheld for the driver to view. It will be called when a stop is dispatched to the handheld. There are 2 places that the notes will appear for a particular stop: In the "Enroute" screen and in the "Shipments" tab of delivery. The procedure is called for each bill that is associated with the stop and the results are concatenated together.

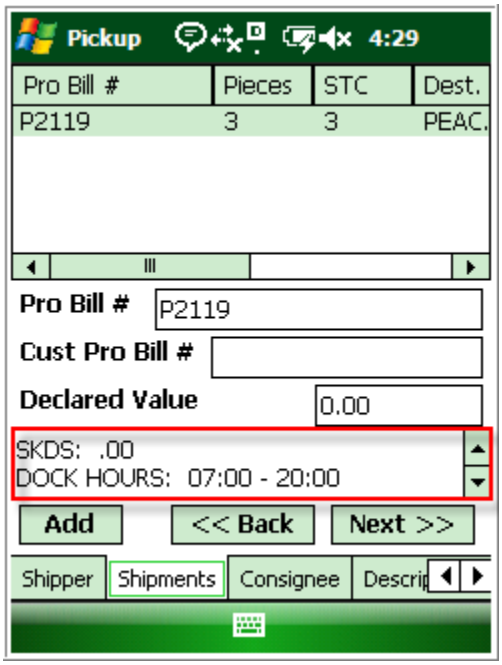
Input Values:

iDETAIL_LINE_ID – Detail Line ID of the bill in question.

Output Values:

oNOTE – Formatted Note.





CUSTOM_GET_NEXT_TRIP

The next trip custom procedure is used to automatically dispatch a trip to the driver when he completes his previous trip. This procedure gets called when a driver completes his trip (All stops as well as terminal arrival/departure and trailer activities) and the "Automatically Send Next Trip" configuration option is selected.

Input Values:

iTRIP_NUMBER – Trip that the driver has just completed.

iDRIVER – Driver ID.

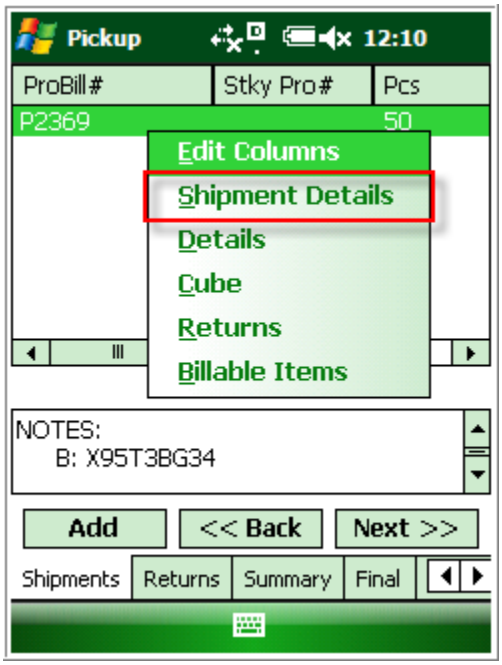
Output Values:

oNEXT_TRIP – Trip number of next trip that the driver should receive.

oSUPRESS_NOTI – String Boolean either 'True' or 'False'. If set to 'True' trip completed notifications to dispatch will be suppressed.

CUSTOM_ORDER_USER_FIELDS

The CUSTOM_ORDER_USER_FIELDS procedure will populate the "Cust Pro Bill#" ("Sticky Pro#"), "Mode", "Commodity" and "Comm Type" fields in a stop on the handheld. This procedure is called when a bill gets dispatched to the handheld.



Input Values:

iDETAIL_LINE_ID – Detail line ID of bill in question.

iPICKDROP – PICKDROP of 0 = Pickup and 1 = Delivery.

Output Values:

oCUSTPROBILL – Fills "Cust Pro Bill#" or "Sticky Pro#" fields on handheld.

oCOMMTYPE – Fills "Type" field on handheld.

oMODE – Fills "Mode" field on handheld.

oCOMMODITY – Fills "Commodity" field on handheld.

CUSTOM_HANDLE_PICKUP_ITEMS

This procedure will get called on stop completion to allow for the handling of items. Pieces will get grouped by type and sent to this procedure to be processed if the "Use Custom Procedure for Handling Items" check box is selected in the TruckMate configuration.

Input Values:

iDETAIL_LINE_ID – Detail line ID of associated freight bill.

iORDER_NUMBER – TruckMate freight bill number or Omnitracs Canada OrderNo.

iTYPE – Item Type (Prod Type on Handheld). Items will be grouped by type.

iPIECES_UNIT – Unit of measurement.

iPIECES_COUNT - Number of pieces.

iDAMAGE – "Reason" selected in OS&D screen on handheld (If an OS&D was added)

iCOMMENT – Notes the driver has added to the "Comments" section in the OS&D screen (If an OS&D was added)

iWEIGHT – Currently nothing done with this value

iVOLUME - Currently nothing done with this value

iLENGTH - Currently nothing done with this value

iWIDTH - Currently nothing done with this value

iHEIGHT - Currently nothing done with this value

iPIECES – The sum of Said to Contain (STC)

iDANGER – Indicates if item is marked as "Dangerous Goods"

CUSTOM_PICKUP_AFTER_ITEMS

This procedure will get called after the CUSTOM_HANDLE_PICKUP_ITEMS procedure is called and is used handle pieces on the order level. When using the CUSTOM_HANDLE_PICKUP_ITEMS procedure there is no means of getting the weight from the order. This procedure is called once after the items processing to allow handling of the order weight.

Input Values:

iDETAIL_LINE_ID – Detail line ID of associated freight bill.

iORDER_NUMBER – TruckMate freight bill number or Omnitracs CanadaOrderNo.

iWEIGHT – Total weight for the given Freight Bill/OrderNo

iVOLUME – The cubic volume for all dimensions entered for the Freight Bill/OrderNo

iPIECES – The Omnitracs Canada order.pieces field when using the simplified pickup screens on handheld

iSKIDS – The Omnitracs Canada order.skids field

iMODE – The Omnitracs Canada order.mode field

iCOMMODITY –The Omnitracs Canada order.commodity field

iTYPE – The Omnitracs Canada order.commtype field

iFLOOR_SPACE – Value entered in the "Footage" field in the "Shipment Details" tab.

iUOM_WEIGHT – Unit of measurement of the weight.

iUOM_SIZE – Unit of measurement of the volume.

CUSTOM_SAME_DAY

The CUSTOM_SAME_DAY procedure will get called on completion of pickups if the "Enable sameday direct" configuration option is enabled. This procedure will determine if a same day delivery should be sent out to the driver for the bill in question.

Input Values:

iDETAIL_LINE_ID – Detail line ID of the bill in question.

Output Values:

oSDAY – Returns true or false.

CUSTOM_STOP_COMPLETE

This procedure will get called on all stop completions and will allow for lat/longs and odometer readings to be stored somewhere in TruckMate. You can also use this procedure to perform custom actions on stop completion.

Input Values:

iSTOP_ID – Omnitracs Canada STOP_ID of completed stop.

iROUTE_ID – Omnitracs Canada ROUTE_ID that stop is on.

iACTLAT – Actual latitude of the location that the stop was completed.

iACTLONG – Actual longitude of the location that the stop was completed.

iODOMETER – Last known Odometer reading at time of stop completion.

CUSTOM_BILLABLE_ITEMS

This procedure will be called on stop completion and is used to handle billable items entered on the handheld.

Input Values:

iSTOP_ID – Omnitracs Canada STOP_ID of completed stop.

iORDER_ID – Omnitracs Canada ORDER_ID of completed stop.

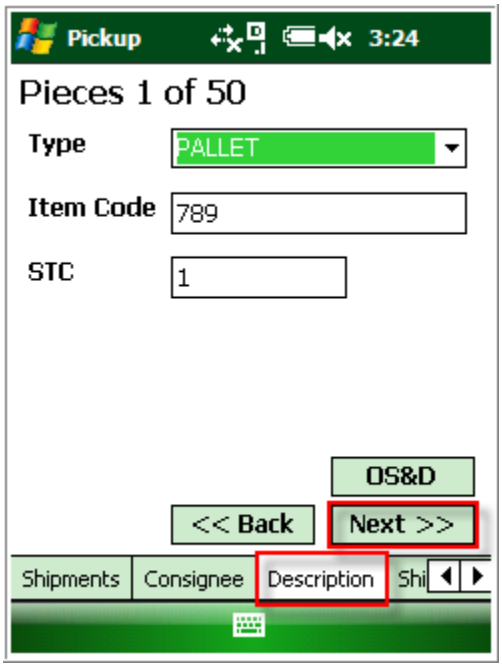
iDESCRIPTION – Description of billable item.

iORDER_NO – TruckMate freight bill number.

iACCODE – Accessorial charge code.

CUSTOM_ITEM_CODE

This procedure is called on stop completion and is used for handling item codes. These codes are entered in the "Description" tab of a pickup.



Input Values:

iDETAIL_LINE_ID – Detail line ID of completed bill.

iTRACE_NUMBER – Number entered in the "Item Code" field.

CUSTOM_ORDER_COD

This procedure will get called when Sentinel dispatches the bills to the handheld. It will check to see if a bill meets some certain criteria and will return a true or false. If true Sentinel will send a COD to the stop that is associated with that particular bill on the handheld.

Input Value:

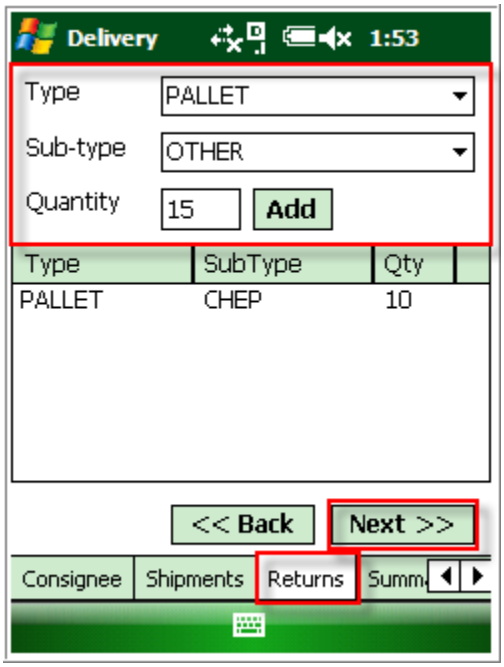
iDETAIL_LINE_ID – Detail line ID of the bill getting sent to the handheld.

Output Value:

oCOD – Returns a true or false.

CUSTOM_RETURNS

This procedure will update the returns coming back from the handheld into whichever fields you would like in the TruckMate database.



Input Values:

iSTOP_ID – Omnitracs Canada STOP_ID of the completed stop.

iRETURN_TYPE – Value from the "Type" field in the "Returns" screen.

iRETURN_SUBTYPE – Value from the "Sub –Type" field in the "Returns" screen.

iQUANTITY – Value from the "Quantity" field in the "Returns" screen.

iORDER_ID – Omnitracs Canada ORDER_ID of the completed order (If return done at the order level).

iORDER_NO – TruckMate freight bill number (If the return was done at the order level).

iDETAIL_LINE_ID – Detail Line ID of freight bill (If the return was done at the order level).

iDIRECTION – 'D' – The materials are dropped off. 'P' – The materials are picked up.

iCHANGED – '-1' – The item has been created by the system and has not yet been updated by the driver. '0' – no change since dispatch. '1' – Type, Sub-type, Quantity or Direction was changed by the driver. '2' – The item was newly added by the driver.

iUPDATED_ON – Updated when return comes back from handheld after stop completion.

iID – ID of the record in question.

CUSTOM_GET_RETURNS

This procedure will get called for each bill when building the stop and insert into the SENTINEL.RETURNS table for the bill in question. Handled for each record must be marked as "false" and the STOP_ID and ORDER_ID must be blank for Sentinel to process it after insertion.

Input Values:

iDETAIL_LINE_ID – Detail line ID of the bill in question.

iSTOP_TYPE – Stop type. 0 = Pickup and 1 = Delivery.

CUSTOM_GET_TRIP_BILLS

This procedure will get called when a driver first logs into a valid trip if the "Consolidation Type" is set to "CUSTOM" in the TruckMate configuration. This procedure must insert its results into the SENTINEL.TRIP_BILLS table. Bills with the same sequence number will be consolidated when being sent to the handheld. This will give users the ability to custom configure how bills will be consolidated.

Input Value:

iTRIP_NUMBER – TruckMate trip that the driver has logged into. (If trip number is valid)

CUSTOM_GET_SAME_STOPID

This procedure will determine if a bill that is added to a trip in TruckMate should be consolidated with an existing stop that is already on the handheld. It will only be called if the "Consolidation Type" is set to "CUSTOM" in the TruckMate configuration. If the bill being added should be consolidated, it will return the stop ID of the stop that it will be added to.

Input Values:

iTRIP_NUMBER – TruckMate trip number that the bill has been added to.

iSTOP_TYPE – 0 = Pickup, 1 = Delivery.

iDETAIL_LINE_ID – Detail line ID of bill in question.

Output Value:

oSTOP_ID – Stop that the bill in question should be consolidated with.

GET_BILL_DETAILS

This procedure will select the required detail lines for the bill in question and insert them into the BILL_DETAILS table. It is also used to insert BILL_DETAIL_ITEMS records for deliveries. This procedure is called when adding a pickup to the handheld and the "Use Advanced Pickup" option is selected.

Input Values:

iDETAIL_LINE_ID – detail line ID of bill that was added to trip.

GET_ORDER_REQUIRED

This procedure is used to decide if an item is required on the Omnitracs Canada order. Refer to output values for descriptions.

Input Values:

iDETAIL_LINE_ID – detail line ID of bill that was added to trip.

iPICKDROP – 0 = Pickup, 1 = Delivery.

iBILL_COUNT – Total number of bills that will be consolidated with this bill.

Output Values:

oREQRETURN – True or False. If a return is required on the bill.

oREQCUBE – True or False. If cubing is required on the bill.

oREQPALLETSEALED – True or False. If it is required that the driver seal the pallet.

oISDANGEROUS – True or False. If the bill contains dangerous goods.

oREQDANGEROUS – True or False. If the bill requires the driver to verify if the freight contains dangerous goods or not.

oONEREQRETPERSTOP – True or False. If you want the driver to capture returns for only the first bill on the stop.

oALLOWEDITSAVELINEITEM – True or False. If the driver can delete or edit OrderLineItems on deliveries.

oSHOWLINEITEM – True or False. If the driver can display OrderLineItems on a delivery.

oREQIMAGE – If an image is to be captured on the bill in question, the message that is displayed to the driver to remind them will need to be passed into this field. Ex: "An image must be captured for this bill"

GET_STOP_REQUIRED

This procedure will determine whether a signature is required on a bill. If required, the driver will be warned when moving past the signature screen.

Input Values:

iDETAIL_LINE_ID – detail line ID of bill that was added to trip.

iPICKDROP – 0 = Pickup, 1 = Delivery.

Output Values:

oREQSIGNATURE – True or False. If a signature will be required on the stop.

CUSTOM_UPDATE_PICKUP_ORDER_DETAILS

The procedure will get called once for each order on completion of pickups when the "Use Advanced Pickup" option is enabled. It is used to update the fields at the order level.

Input Values:

iDETAIL_LINE_ID – Detail line id of the freight bill.

iORDER_NO – Same as bill number unless entered by the driver.

iSUM_PALLET – Sum of the pallets

iSUM_PIECE – Sum of the pieces

iSUM_WEIGHT – Sum of the weight

iSUM_WEIGHT_TYPE – Weight units.

iVOLUME – Cubic volume from cubing.

iCUBEONBILL – "True" or "False" if the driver selected the "Cube on Bill" option.

iPALLET_SEALED – "True" or "False" if the driver selected the "Pallet Sealed" option.

iDANGEROUS – "True" or "False" if the driver selected the "Dangerous" option.

iTOBEWEIGHED – "True" or "False" if the driver selected the "To Be Weighed" option.

iFOOTAGE – Footage used in the trailer.

iFLOORSPACE – Floor space available – Currently unused.

iCOMMTYPE – Commodity type – Currently unused.

iCOMMODITY – Commodity – Currently unused.

iMODE – Mode of transport – Currently unused.

CUSTOM_UPDATE_PICKUP_DETAILS

This procedure will handle updated order details coming back from a pickup on the handheld if the "Use Advanced Pickup" option is enabled. It will get called with every OrderLineItem record and insert into TLDTL. If the REFERENCE_ID is -1, the record was added by the driver.

Input Values:

iDETAIL_LINE_ID – Detail line ID of the freight bill.

iSTOP_ID – Omnitracs Canada STOP_ID.

iORDER_ID – Omnitracs Canada ORDER_ID.

iORDER_NO – Freight bill number.

iPALLET – Number of pallets.

iPALLET_FLOOR – Floor space available.

iPIECE – Number of pieces.

iPIECE_TYPE – Type of pieces.

iWEIGHT – Shipment weight.

iWEIGHT_TYPE – Weight units of measurement.

iTEMPERATURE – Temperature of freight.

iTEMP_TYPE – Temperature units of measurement.

iMISC – Misc. field.

iMISC_TYPE – Misc. type field

iCOMMODITY – Type of commodity.

iREFERENCE_ID – Will be -1 if the detail line was added by the driver, otherwise this is the "Sequence" filed from TLDTL

CUSTOM_GET_UNHANDLED_BILL_DETAILS

This procedure is used to get fields from the TLDTL table and custom map them to Omnitracs Canada OrderLineItems fields when using the advanced pickup or delivery functionality and the "Use Custom Proc to Get Details" option is selected.

Input Values:

iDETAIL_LINE_ID – Detail line ID of the freight bill.

iSEQUENCE – Sequence number of the TLDTL record.

Output Values:

oCOMMODITY – Maps to the ORDERLINEITEM. COMMODITY field.

oDESCRIPTION – Currently unused.

oWEIGHT – Maps to Omnitracs Canada ORDERLINEITEM.WEIGHT field.

oVOLUME – Currently unused.

oCUBE – Currently unused.

oPALLETS – Maps to Omnitracs Canada ORDERLINEITEM.PALLET field.

oAREA – Currently unused.

oLENGTH – Maps to Omnitracs Canada ORDERLINEITEM.PALLETFLOOR field.

oWIDTH – Currently unused.

oHEIGHT – Currently unused.

oPIECES – Maps to Omnitracs Canada ORDERLINEITEM.PIECE field.

oPIECES_UNITS – Currently unused.

oPIECES_UNITS_NAME – Maps to Omnitracs Canada ORDERLINEITEM.PIECE_TYPE field.

oDANGEROUS_GOODS – Currently unused.

oWEIGHT_UNITS – Maps to Omnitracs Canada ORDERLINEITEM.WEIGHT_TYPE field.

oTEMPERATURE – Maps to Omnitracs Canada ORDERLINEITEM.TEMPERATURE field. Not currently displayed on the handheld. For future use.

oTEMPERATURE_UNITS – Maps to Omnitracs Canada ORDERLINEITEM.TEMP_TYPE field. Not currently displayed on the handheld. For future use.

oMISC – Maps to Omnitracs Canada ORDERLINEITEM.MISC field. Not currently displayed on the handheld. For future use.

oMISC_TYPE – Maps to Omnitracs Canada ORDERLINEITEM.MISC_TYPE field. Not currently displayed on the handheld. For future use.

CUSTOM_UPDATE_DELIVERY_ORDER_DETAILS

The procedure will get called once for each order on completion of deliveries when "Use custom procedure for updating order fields" is selected in the "Bill Details Delivery" section of the TruckMate config. This can be used only with the advanced pickup option selected. Currently the only fields that are updated on a delivery are iFOOTAGE and iVOLUME.

Input Values:

iDETAIL_LINE_ID – Detail line id of the freight bill.

iORDER_NO – Same as bill number unless entered by the driver.

iSUM_PALLET – Sum of the pallets – Currently unused.

iSUM_PIECE – Sum of the pieces – Currently unused.

iSUM_WEIGHT – Sum of the weight – Currently unused.

iSUM_WEIGHT_TYPE – Weight type – Currently unused.

iVOLUME – Cubic volume from cubing.

iCUBEONBILL – Cube on bill – Currently unused.

iPALLET_SEALED – Pallet sealed by driver – Currently unused.

iDANGEROUS – If the freight is marked as dangerous goods – Currently unused.

iTOBEWEIGHED – If the freight is to be weighed – Currently unused.

iFOOTAGE – Footage used in the trailer.

iFLOORSPACE – Floor space available – Currently unused.

iCOMMTYPE – Commodity type – Currently unused.

iCOMMODITY – Commodity – Currently unused.

iMODE – Mode of transport – Currently unused.

CUSTOM_UPDATE_DELIVERY_DETAILS

This procedure will handle updated order details coming back from a delivery on the handheld when the "Use Advanced Delivery" option is selected. It will get called with every OrderLineItem record and can insert into TLDTL. If the REFERENCE_ID is -1, the record was added by the driver.

Input Values:

iDETAIL_LINE_ID – Detail line ID of the freight bill.

iSTOP_ID – Omnitracs Canada STOP_ID.

iORDER_ID – Omnitracs Canada ORDER_ID.

iORDER_NO – Freight bill number.

iPALLET – Number of pallets.

iPALLET_FLOOR – Floor space available.

iPIECE – Number of pieces.

iPIECE_TYPE – Type of pieces.

iWEIGHT – Shipment weight.

iWEIGHT_TYPE – Weight units of measurement.

iTEMPERATURE – Temperature of freight.

iTEMP_TYPE – Temperature units of measurement.

iMISC – Misc. field.

iMISC_TYPE – Misc. type field

iCOMMODITY – Type of commodity.

iREFERENCE_ID – Will be -1 if the detail line was added by the driver, otherwise this is the "Sequence" filed from TLDTL

CUSTOM_UPDATE_DELIVERY_DETAIL_ITEMS

This procedure will get called on insert or update of the BILL_DETAIL_ITEMS table on delivery completion when the "Use Advanced Delivery" option is selected and is used to update LineItemDetail records into TruckMate from the BILL_DETAIL_ITEMS table.

Input Values:

iDETAIL_LINE_ID – Detail line ID of the freight bill.

iSEQUENCE – The sequence number of the detail line.

iSTOP_ID – Omnitracs Canada STOP_ID.

iORDER_ID – Omnitracs Canada ORDER_ID.

iCHANGED – '0': nothing has changed from what was dispatched

'1': something was changed by the driver

'2': this new item is created/added by the driver

'4': this existing item is marked as short by the driver

iCOMMENT – Comment from driver.

iLINE_ITEM_CODE – Code that will be used to validate on the handheld (Ex: Carton number).

iCODE_SCANNED – True or False. If the code was scanned with the handheld or manually selected by the driver using the stylus.

iREASON_CODE – The reason selected in the "Reason drop down when marking the item as "Short" or "Over"

HANDLE_BILL_DETAIL_ITEMS

This procedure will get called on insert or update of the BILL_DETAIL_ITEMS table on delivery completion and will handle LineItemDetail records in the BILL_DETAIL_ITEMS table.

Input Values:

iDETAIL_LINE_ID – Detail line ID of the freight bill.

iSEQUENCE – The sequence number of the detail line.

iSTOP_ID – Omnitracs Canada STOP_ID.

iORDER_ID – Omnitracs Canada ORDER_ID.

iLINE_ITEM_CODE – Code that will be used to validate on the handheld (Ex: Carton number).

CLEAR_BILL_DETAIL_ITEMS

This procedure will get called on insert or update of the BILL_DETAIL_ITEMS table and remove any LineItemDetail records that were deleted from the SENTINEL.ROUTE_STOP table.

GET_START_END

This procedure will get called before adding any terminal or trailer stops to the handheld. If False is returned, the stop will not be added to the route.

Input Values:

iTRIP_NUMBER – The trip number in question.

iSTOP_TYPE – '4': Terminal Departure

'5': Terminal Arrival

'6': Trailer Drop

'7': Trailer Pick

Output Values:

oSTATUS – True or False. If the stop should be added.

PURGE_TABLES

This procedure will be called at midnight and will purge that tables of records that are older than the "Purge Days" parameter.

Input Values:

iPURGE_DATE – Date time based on the "Purge Days" parameter.

Output Values:

oRESULT – Rows affected by the query.

CUSTOM_BILL_STATUS_CHANGE

This procedure will get called for every bill on delivery status change after the bill has been completed. By default, it will call the INSERT_INTO_ODRSTAT TruckMate procedure to insert into the ODRSTAT table for the bill in question.

Input Values:

iBILL_NUMBER – The bill number of the bill in question.

iCHANGED – Date/time of the status change.

iSTATUS_CODE – The status that the bill was changed to.

iSTAT_COMMENT – The comment associated to the status that the bill was changed to.

iUPDATED_BY – The user that is making the status change (TruckMate direct user)

iTRIP_NUMBER – The trip in question.

Output Values:

oRESULT – By default, the result of the INSERT_INTO_ODRSTAT procedure (ODRSTAT ID)

UPDATE_CUBE_DATA

This procedure will get called once with each cube data item that the driver enters on a freight bill and be used to update the dimensions in TruckMate.

Input Values:

iDETAIL_LINE_ID – The detail line ID of the bill in question.

iWIDTH – Width entered by the driver.

iLENGTH – Length entered by the driver.

iHEIGHT – Height entered by the driver.

iSTOP_TYPE – The type of stop in question. 0 = Pickup, 1 = Delivery.

iQUANTITY – The quantity entered by the driver.

INSERT_OSD

This procedure gets called once for every OS&D record if the "Use Custom Procedure" config option is enabled in the OSD section of the TruckMate config. It is used to map the OS&D values to other fields/tables instead of doing the default insert into the OSD table in TruckMate.

Input Values:

iDETAIL_LINE_ID – The detail line ID of the bill in question.

iSIGN_DATE – Date/time that the bill was completed on the handheld.

iDRIVER – ID of the driver that completed the stop.

iREASON – The OS&D reason that was selected from the reason drop down on the handheld.

iOSD_PROD_CODE – The value that was entered into the Prod Code field on the handheld.

iOSD_COMMENTS – The comments entered by the driver in the OS&D screen on the handheld.

iOSD_PIECES – The value entered in the Pieces field on the handheld.

iOSD_PIECE_TYPE – The value that was selected in the Piece Type drop down on the handheld.

iPICKDROPSTR – The type of stop. "Pick" or "Drop"

iDELIVERY_TERM – The associated delivery terminal. Usually inserted into the OSD.OSD_TERMINAL field.

iPICKDROP – 0 = Pickup, 1 = Delivery.

IS_WAS_TRIP_SENT

This procedure will get called on initial dispatch of the trip to the handheld to check if the trip was sent previously. In some instances, when using team drivers, it is possible that the trip will get sent again if the user logs into the same trip twice using each of the drivers.

Input Values:

iTRIP_NUMBER – The trip in question.

iDRIVER – The driver currently logging into the trip in question.

Output Values:

oSENT – True or False. Has the trip been previously sent to the handheld?

CUSTOM_UPDATE_CUSTPROBILL

This procedure will be called once per item that the driver inputs in the CUSTPROBILL (Client Reference/Trace Number) field on the handheld.

Input Values:

iDETAIL_LINE_ID – The detail line ID of the bill in question.

iSTOP_TYPE – 0 = Pickup, 1 = Delivery.

iCUSTPROBILL – value entered into the CUSTPROBILL field on the handheld.

CUSTOM_WAITING_ACTIONS

This view is used to determine when a waiting event action should be triggered and must return any STOP_ID that needs to be dealt with. When a driver arrives at a stop a record will be placed in the SENTINEL.WAITING_EVENTS table. Once the record in that table matches the

conditions defined in this view the driver is considered to be “waiting” at that particular stop and if configured a status change will be done on the bill as well as an email sent.

BILLABLE_ITEMS

These records will be created when a driver adds an accessorial charge to a bill on the handheld.

Name	Data Type	Description
STOP_ID	INTEGER	Omnitracs Canada STOP_ID of completed stop with accessorial charge associated with it.
ORDER_ID	INTEGER	Omnitracs Canada ORDER_ID of the order (freight bill) that the charge has been applied to.
DESCRIPTION	VARCHAR	Description of accessorial charge that was selected on the handheld.
ORDER_NO	VARCHAR	TruckMate Freight Bill number.
ACCODE	VARCHAR	Accessorial code that is setup in codes maintenance.

BILL_EVENT

Records will be inserted into BILL_EVENT when modifications have been done to a trip. For example: when bills are added/removed from a trip.

Name	Data Type	Description
DETAIL_LINE_ID	INTEGER	Detail line ID of modified bill.
CHANGED	TIMESTAMP	Date and time of when the modification occurred.
STATUS_CODE	VARCHAR	Current status of the bill.
TRIP_NUMBER	INTEGER	TruckMate trip number that the modification occurred on.
CODE_BEHAVIOR	VARCHAR	The behavior of the status code in question.

HANDLED	VARCHAR	True or False. If the record has been handled by Sentinel.

DISPATCH_EVENT

A record will be created in this table when a driver logs into trip (final login).

Name	Data Type	Description
TRIP_NUMBER	INTEGER	TruckMate trip number that the driver has logged into.
DRIVER	VARCHAR	Driver ID of the driver that has logged into the trip.
STATUS	INTEGER	1 – Status is 1 on initial login 2 – Changes to 2 when driver completes the terminal arrival stop.
CREATED_ON	TIMESTAMP	Date and time of when the record was created. Created when the driver completes his final login.
ROUTE_NUMBER	INTEGER	Omnitracs Canada ROUTE_ID.
DEPARTURE_TIME	TIMESTAMP	Date and time of when the driver completed the terminal departure stop.
ARRIVAL_TIME	TIMESTAMP	Date and time of when the driver completed the terminal arrival stop.

IMAGE_JOBS

When stops are completed on the handheld information about the BOL, Signature and OS&D images will be kept in this table. One record will be created per freight bill on the stop in question.

Name	Data Type	Description
ID	INTEGER	Unique Identifier.
DETAIL_LINE_ID	INTEGER	Detail line ID of the completed freight bill.

CHANGED	TIMESTAMP	Date and time the image job was inserted.
BILL_NUMBER	VARCHAR	Freight bill number that the image is associated to.
IMAGE_FILE	VARCHAR	Path to the image file.
JOB_TYPE	VARCHAR	Type of image. BOL, Signature or OS&D.
HANDLED	VARCHAR	True or false. If the image has been handled by Sentinel.
PROCESSING	VARCHAR	True or False. If the image is being processed by Sentinel at that moment.

LOG

This table stores all of the log information. This is the same information that you would view in the GUI application.

Name	Data Type	Description
ID	INTEGER	Unique Identifier.
CREATED_ON	TIMESTAMP	Date and time of when the record was inserted into the table.
MESSAGE_TYPE	INTEGER	Type of message. 0 – startup 1 – Shutdown 2 – Error 3 – Information 4 – Warning 5 – Debug 6 – TruckMate 7 – Omnitracs Canada 8 – Microdea 9 – Email.

MESSAGE	VARCHAR	Message string.

LOGIN_EVENT

When the driver logs in/out on the handheld a record will be created in this table.

Name	Data Type	Description
USERNAME	VARCHAR	Driver ID that was entered on login.
CREATED_ON	TIMESTAMP	Date and time the record was inserted into the table.
HAND_CODE	INTEGER	Hand code of the handheld that the driver logged into.
EVENT_TYPE	INTEGER	Type of login. 0 – Driver login (Login 1) 1 – Main login (Login 2) 2 – logout
TRUCK	VARCHAR	ID of the truck that was logged into.
TRAILER	VARCHAR	ID of the trailer that was logged into.
TRIP_NUMBER	INTEGER	TruckMate trip number that was logged into.
ROUTE_NUMBER	INTEGER	Omnitracs Canada ROUTE_ID.
IN_COUNT	INTEGER	In count will increment if multiple logins are done in a row without a logout in between.
INCOMP_FLAG	VARCHAR	True or False. If there were incomplete stops on the handheld when the trip was logged out of.
INCOMP_REASON	VARCHAR	If enabled, the reason the driver enters for logging out with incomplete stops.

TRAILER2	VARCHAR	ID of the second trailer that was logged into. If applicable
LATITUDE	DOUBLE	Last known latitude of the device when record was created.
LONGITUDE	DOUBLE	Last known longitude of the device when record was created.
ODOMETER	DOUBLE	Last known odometer of the vehicle when record was created.
ERRORS	VARCHAR	True or False. Indicates if the login is valid.
IMEI	VARCHAR	IMEI (UA) of the handheld that the driver logged into.

NEXT_TRIP_WAIT

When a driver has completed his current trip and "Automatically send next trip" is enabled in the "Trip Options" a record will be created in this table and will remain until the parameter in the "Next trip wait expiration (minutes)" runs out.

Name	Data Type	Description
DRIVER	VARCHAR	Driver ID that is waiting for a next trip.
TRIP_NUMBER	INTEGER	TruckMate trip number that the driver has just completed.
HANDLED	VARCHAR	True or False. If the record has been processed by Sentinel.
CREATED_ON	TIMESTAMP	Date and time the record was inserted into the table.

RETURNS

When a driver adds a return to a stop on the handheld a record will get created in this table.

Name	Data Type	Description
ID	INTEGER	Auto generated record id

STOP_ID	INTEGER	Omnitracs Canada STOP_ID of the stop that the return was completed on.
ORDER_ID	INTEGER	Omnitracs Canada ORDER_ID of the order that the return was completed on. If completed at the order level.
ORDER_NO	VARCHAR	TruckMate freight bill number of the order that the return was completed on. If completed at the order level.
RETURN_TYPE	VARCHAR	Return type that was selected on the handheld.
RETURN_SUBTYPE	VARCHAR	Return subtype that was selected on the handheld.
QUANTITY	INTEGER	Quantity that was entered on the handheld.
CREATED_ON	TIMESTAMP	Date and time the record was inserted into the table.
HANDLED	VARCHAR	True or False. If the record has been processed by Sentinel.
DETAIL_LINE_ID	INTEGER	Detail line ID of the freight bill. If completed at the order level.
DIRECTION	VARCHAR	'D' – The materials are dropped off. 'P' – The materials are picked up.
CHANGED	INTEGER	'-1' – The item has been created by the system and has not yet been updated by the driver. '0' – no change since dispatch. '1' – Type, Sub-type, Quantity or Direction was changed by the driver. '2' – The item was newly added by the driver.

REQ_VALIDATE	VARCHAR	'False' – Default – Item not required to be validated on the handheld. 'True' – Item must be validated by the driver on the handheld.
UPDATED_ON	TIMESTAMP	Updated when return comes back from handheld after stop completion.

ROUTE_STOP

On the initial dispatch of the trip one record will be created in this table for each terminal/trailer stop (with the exception of the depart terminal) and one entry per freight bill on each stop.

Name	Data Type	Description
ROUTE_NUMBER	INTEGER	Omnitracs Canada ROUTE_ID.
STOP_ID	INTEGER	Omnitracs Canada STOP_ID.
DETAIL_LINE_ID	INTEGER	Detail line ID of each freight bill.
STOP_TYPE	INTEGER	Type of stop 0 – Pickup 1 – Delivery 4 – Depart Terminal 5 – Arrive Terminal 6 – Trailer Drop 7 – Trailer Pick 8 – Unknown
HANDHELD_ID	INTEGER	*Deprecated.*
TRIP_NUMBER	INTEGER	TruckMate trip number.
SEQUENCE	INTEGER	Sequence number that the stop appears on the handheld.
REASON	VARCHAR	*Deprecated.*
CREATED_ON	TIMESTAMP	Date and time of when the record was added.

UPDATED_STATUS	INTEGER	0 – default value when entry is created. 2 – Stop completed.
ACT_LONG	DOUBLE	Last know longitude at the time of stop completion.
ACT_LAT	DOUBLE	Last know latitude at the time of stop completion.
ODOMETER	DOUBLE	Last Known Odometer reading for the vehicle at the time of stop completion.
CANCELLED	INTEGER	1 or 0. If the stop has been cancelled.

TRIP_BILLS

When using the custom consolidation option, the CUSTOM_GET_TRIP_BILLS procedure will insert into this table. When Sentinel queries it, bills with the same sequence number will be consolidated.

Name	Data Type	Description
ID	INTEGER	Unique identifier.
TRIP_NUMBER	INTEGER	TruckMate trip number.
SEQUENCE	INTEGER	The order in which the stops will appear on the manifest screen of the handheld. Bills with matching sequence numbers will be consolidated.
STOP_TYPE	INTEGER	0 – Pickup 1 – Delivery
DETAIL_LINE_ID	INTEGER	Detail line ID of freight bill.
CREATED_ON	TIMESTAMP	Date and time the record was inserted into table.
HANDLED	VARCHAR	True or False. If the record has been processed by Sentinel.

TRIP_SUMMARY

Trip Summary records show a brief overview of the driver's day. When a driver logs out of the handheld the records will get sent to Omnitracs Canada's server. Sentinel will pick up these records and fill this table once a day by default or as the trip summaries are completed if "Update in real time" is selected in the Omnitracs Canada Mobile settings.

Name	Data Type	Description
ID	INTEGER	Unique identifier.
SUMMARY_ID	INTEGER	ID of record in Omnitracs Canada's summary table.
HAND_CODE	INTEGER	Hand code of device that the trip was completed on.
TRIP_NUMBER	INTEGER	TruckMate trip number. Last trip the driver completed if using the "next trip" functionality.
ROUTE	VARCHAR	TruckMate trip number. First trip the driver logged into.
ROUTE_ID	INTEGER	Omnitracs Canada ROUTE_ID.
DRIVER	VARCHAR	Driver ID of driver on trip.
VEHICLE	VARCHAR	Vehicle ID of truck on trip.
TRAILER	VARCHAR	Trailer ID of trailer on trip.
START_DATE	TIMESTAMP	Date and time of when first stage of login was completed.
END_DATE	TIMESTAMP	Date and time of when logout was completed.
ACCEPTED	VARCHAR	True or false. If the driver summary was accepted by the driver.
DRIVING_MIN	INTEGER	Minutes that the vehicle was in motion while the driver was logged in.
BREAK_MIN	INTEGER	Accumulative minutes that the driver was on break/lunch.

STOP_COUNT	INTEGER	Number of stops completed. Includes terminal arrival and departure stops.
AVG_SPEED	INTEGER	Average speed of vehicle while driver was logged in.
MAX_SPEED	INTEGER	Max speed of vehicle while driver was logged in.
START_ODOM	DOUBLE	First recorded odometer after login. If device is associated to a Route Tracker.
END_ODOM	DOUBLE	Last recorded odometer before logout. If device is associated to a Route Tracker.
COMMENTS	VARCHAR	Comments that the driver entered in the comments field of the driver summary on the handheld.
CREATED_ON	TIMESTAMP	Date and time of when the record was inserted.

UNPLANNED_STOPS

Throughout the day, the driver will complete unplanned stops as the unplanned stop condition is met. Ex: When the driver moves less then 500m within a 15-minute time period an unplanned stop will be triggered on the handheld. This parameter can be custom configured by Omnitracs Canada support. It is also possible for the driver to trigger unplanned stops on the fly.

Name	Data Type	Description
ID	INTEGER	Unique Identifier.
UNPLANNED_ID	INTEGER	ID of associated record in Omnitracs Canada's database.
HAND_CODE	INTEGER	Hand code of device that the trip was completed on.
TRIP_NUMBER	INTEGER	TruckMate trip number. Last trip the driver completed if

		using the "next trip" functionality.
DRIVER	VARCHAR	Driver ID of driver on trip.
ROUTE	VARCHAR	TruckMate trip number. First trip the driver logged into if using the "next trip" functionality.
ROUTE_ID	INTEGER	Omnitracs Canada ROUTE_ID.
ACTUAL_LONG	DOUBLE	Last know longitude at the time of stop generation.
ACTUAL_LAT	DOUBLE	Last know latitude at the time of stop generation.
STOP_DATE	TIMESTAMP	Date and time the stop was generated on the handheld.
ARRIVAL_DATE	TIMESTAMP	Date and time the driver actually arrived at the stop or generated it, if driver generated.
DEPART_DATE	TIMESTAMP	Date and time the driver actually departed the stop. Unless stop was completed before the driver left the location. Then it would display the completion time.
STOP_STATUS	INTEGER	ID of status record in Omnitracs Canada's Unplanned table.
STOP_STATUS_DESCRIPTION	VARCHAR	Description that was selected in drop down list.
COMMENTS	VARCHAR	Comments entered by the driver.
CREATED_ON	TIMESTAMP	Date and time of when the record was inserted into the table.

WAITING_EVENTS

When a driver arrives at a stop a record will be placed in this table. Once the record in the table matches the condition defined in the SENTINEL.WAITING_ACTIONS view for the stop in question the driver is considered to be "waiting" at that particular stop. If configured a status change will be done on the bill as well as an email sent. These configuration options can be defined in the "Waiting Events" section of the Sentinel TruckMate configuration.

Name	Data Type	Description
STOP_ID	INTEGER	Omnitracs Canada STOP_ID.
CREATED_ON	TIMESTAMP	Date and time of when the record was inserted into the table.
ARRIVAL	TIMESTAMP	Date and time of when the driver completed the arrival on the handheld.
SIGNED	TIMESTAMP	Date and time of when the driver completed the stop on the handheld.
HANDLED	VARCHAR	True or False. If the record has been processed by Sentinel. Sentinel handled if the condition in the SENTINEL.WAITING_ACTIONS view returns the STOP_ID of the record.
LAT	DOUBLE	Last know latitude at the time of the arrival.
LNG	DOUBLE	Last know longitude at the time of the arrival.

BILL_DETAILS

This table will get populated by the GET_BILL_DETAILS custom procedure. This will contain the detail lines that are to be sent to the handheld for any given freight bill.

Name	Data Type	Description
ID	INTEGER	Unique Identifier.

SEQUENCE	INTEGER	The sequence number of the detail line.
ORDER_ID	INTEGER	The Detail Line ID of the Freight Bill.
CREATED_ON	TIMESTAMP	Date and time of when the record was inserted into the table.
HANDLED	VARCHAR	True or False. If the record has been processed by Sentinel.

BILL_DETAIL_ITEMS

This table will also be populated by the GET_BILL_DETAILS procedure. This will contain detail line item records (Ex: TLORDER_ILT) for a given freight bill. These items can be sent to the handheld to be validated.

Name	Data Type	Description
ID	INTEGER	Unique identifier.
STOP_ID	INTEGER	Omnitracs Canada STOP_ID.
ORDER_ID	INTEGER	Omnitracs Canada ORDER_ID
ORDER_LINE_ID	INTEGER	Omnitracs Canada ORDER_LINE_ID
VALIDATED	VARCHAR	True or False. If the record was validated on the handheld.
CHANGED	INTEGER	'0': nothing has changed from what was dispatched '1': something was changed by the driver '2': this new item is created/added by the driver '4': this existing item is marked as short by the driver
LINE_ITEM_CODE	VARCHAR	Code that will be used to validate on the handheld (Ex: Carton number)

HANDLED	VARCHAR	True or False. If the record has been processed by Sentinel.
REQ_VALIDATE	VARCHAR	True or False. If the driver is required to validate the record on the handheld.
SEQUENCE	INTEGER	The sequence number of the detail line.
DETAIL_LINE_ID	INTEGER	The Detail Line ID of the Freight Bill.
COMMENT	VARCHAR	Comments entered by the driver.
CREATED_ON	TIMESTAMP	Date and time of when the record was inserted into the table.
UPDATED_ON	TIMESTAMP	Date and time of when the record was updated from the handheld.
CODE_SCANNED	VARCHAR	True or False. If the code was scanned by the handheld or manually selected by the driver with the stylus.
REASON_CODE	VARCHAR	The reason that was selected by the driver in the "Reason" drop down box when marking an item as "Short" or "Over"

STOP_EVENTS

This table will be used as a queue to store all of the stopevent records after they are pulled from the Omnitracs Canada Mobile webservice until they are handled and cleared from the table.

Name	Data Type	Description
STOP_EVENT_ID	INTEGER	Unique identifier of the Omnitracs Canada stopevent.
STOP_ID	INTEGER	Omnitracs Canada STOP_ID.

STATUS	INTEGER	'1': Stop received on handheld. '2': Driver Enroute to stop. '3': Driver Arrived at stop. '4': Driver left site. '5': Driver completed stop.
EVENT_DATE	TIMESTAMP	Date and time of when the event occurred on the handheld.
TRIP_NUMBER	INTEGER	TruckMate trip number
THREAD	INTEGER	The thread number that has been assigned to process the stopevent. This could be from 1 – 10 depending on what is setup in the StopEventThreadCount field.
HANDLED	INTEGER	True or False. If the record has been processed by Sentinel.

Contact Us

If you have any questions or concerns, please feel free to contact us.

Email: canada.support@omnitracs.com

Phone: 1-800-863-9191