

Quartix

Award-Winning Vehicle Tracking



User Manual

www.quartix.net



@Quartix



01686 806663



Quartix



enquiries@quartix.net



QuartixTracking

CONTENTS

About Quartix	3	Time on Site Report	63-65
Logging In	4	Vehicle Utilisation Analysis	66-68
Live Tracking	5-9	Driving Style	69
Daily Vehicle Log	10-12	Driving Style Calculations	70
Daily Route Map	13-15	Daily Driver Briefing	71-74
Trip Reporting	16	Driving Style League Table	75-77
Daily Driver Log	17-18	Monthly Speed Report	78-80
Daily Route Chart	19-21	Weekly Speed & Utilisation Chart	81-83
Monthly Summary Report	22-27	Edit Company Details	84
Trip Reporter	28-32	Edit Driver Details	85-86
Weekly Route Chart	33-35	Edit Standard Vehicle Details	87-88
Weekly Summary Report	36-37	Edit User Preferences	89-90
Status Reports	38-41	Edit Vehicle Management Data	91-92
Temperature Report	42-45	Edit Vehicle Privacy Details	93-94
Fleet Management	46	Geofencing Polygon Drawing Tool	95-96
Export Daily Itinerary	47-48	Manage Custom Locations	97-100
Fuel Card Report	49-51	E-mailed Reports	101-113
Monthly Mileage Report	52-53	Scheduled Reports	114-115
MOT/Service Date Report	54-55	Mobile App	116-118
On Site Visit Report	56-58	Dashboards	119-121
Out of Hours Report	59	Dashboards – Components	122-126
Summary Data Spreadsheet	60-62		

Quartix

Award-Winning Vehicle Tracking

The award-winning vehicle tracking company Quartix was founded on 14 February 2001 by four industry professionals. It has grown into one of the UK's most respected suppliers of telematics solutions and services in just 15 years, and has installed more than 250,000 units for over 8,000 fleet customers and 10 major insurance companies.

Quartix now employs over 100 people at six locations and has operations in France and the United States.

The end of 2015 saw Quartix with more than 73,000 fleet vehicles under subscription, while the combined bases of France and the USA almost doubled.

In 2015, Quartix won the Shropshire Star Business of the Year Award and the Cambridge Business Award's Business of the Year.

It was also named in an LSE group report as one of the 1,000 Companies to Inspire Britain in both 2015 and 2016. The report celebrates the fastest growing and most dynamic SME's in the UK.

In 2016, Quartix released a range of new facilities including management dashboards, temperature monitoring and updated privacy controls.



Quartix Unit

15 years of vehicle telematics excellence

Quartix Vehicle Tracking has been manufacturing industry-leading telematics technology since early 2001 and now has more than 8,000 companies using our trackers.

Quartix offers a true end-to-end solution and is responsible for all aspects of product design, from the black box unit itself to the online features and emailed reports.

The Quartix tracking device measures just 90mm x 55mm x 24mm, and weighs only 90g. The unit is completely hidden from view following installation, which typically takes just 30-40 minutes. Our vehicle tracker is compatible with both 12V and 24V vehicle systems without modification, includes internal wireless and GPS antennas, and is fully compliant with EMC, mobile communication standards, and safety legislation.

The product enclosure is made of UL94 V-0 flame retardant material and is assembled in ISO9001 certified manufacturing facilities.

Why Quartix is the best choice in vehicle tracking devices:

- Simple three wire installation
- Supplied with mounting plate for fast installation
- High-sensitivity GPS receiver, providing second-by-second vehicle tracking
- Wide operating voltage range - from 8v to 30v
- Optional general purpose digital inputs for monitoring (such as emergency door opening, tailgate lift or warning light switch)
- Optional driver identification using iButton tag input
- Battery voltage sensing for tamper detection
- Accelerometer for sensing and recording impact data



Logging In

Quartix operates within the UK, France and the USA and, as such, has a number of websites that customers can log on to.

UK	France	USA
http://www.quartix.net	http://www.quartix.fr	http://www.quartix.com
http://www.quartix.co.uk	http://www.quartix.eu	http://www.quartix.us

It is important that users log on to the Quartix website for their region, as the login details do not work between regions. For example, the login details for a Quartix UK customer will not work on the Quartix USA website.

On the Quartix home page, beneath the contact phone number in the upper right hand corner, is the "Login" button, which leads to the login page.

It is possible to create a desktop shortcut that will allow users to log straight into the Quartix website without entering login details. This is not recommended for shared computers.



On the login page, there is a section called "Login" that will have three fields to be filled in. These are Subscriber ID, Username, and Password. These details are sent out to customers via e-mail from the Quartix Support Team.

If the details are misplaced or require replacing, an e-mail can be sent to support@quartix.net. This request will be actioned as long as it comes from an authorised contact.

Main Page

Once a customer has logged on to the Quartix website, they are presented with the main menu. This menu will contain information on the customer's company and will display features available for the Vehicle Tracking package to which they are subscribed.

On the right-hand side, the page will show the user who they are logged in as, if there are multiple users on the account.

On the left hand side is the application menu that contains all of the options for the customer's account.

Some menu options, such as "Live Tracking," will take users directly to that feature. Others, such as "Trip Reporting," will bring up a sub-list of applications that can be run.

To log out of the Quartix website, choose the "Click here to Log Out" option to return to the main Quartix sales page.



To access the live-tracking feature, click on the "Live Tracking" option from the main Quartix menu on the left hand side of the website.

Live tracking, daily vehicle logs, and daily route maps form the core components of the Quartix application.

Live tracking allows users to view a map that shows the locations of their vehicles in real time. They can choose to view a single vehicle, a pre-determined group of vehicles, or all vehicles. This filtering option is presented when "Live Tracking" is chosen. The default is all groups and all vehicles.

There is a common trend for the main selection pages on a number of the reports that Quartix offers. Each selection page gives the same options: the ability to filter by "Group" or directly by registration.



On the live tracking page, there is not an option to click on "Today" or "Yesterday," as the current location of the vehicles, rather than historical information, is being viewed. There are other options on this form such as "Address" and "Show custom locations on map."

Once on the live tracking menu, it is possible to refine the search criteria for more specific tracking.

The majority of customers will leave the settings as they are and just click on the "OK" button. This instructs the system to display the live tracking information for all of the customer's vehicles.



There is the option to narrow the filter down if vehicles are grouped, for example, by operation or region. Only the vehicles in that group will be displayed on the live tracking map.

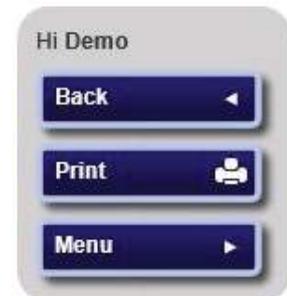
If the location of a specific vehicle is needed, it can be chosen from the list of all vehicles. If that list is particularly long, the search can be narrowed down by selecting the "group" option first. It is also possible to enter an address, to view the vehicles closest to it.

If none of the filters are applied, the live tracking map will display vehicle icons showing the position of all tracked vehicles. If filters have been applied, then only the vehicles that meet those criteria will be displayed.

The system will analyse the spread of the vehicle locations and display the map at a scale that will show the locations of all selected vehicles.

Quartix live tracking is driven by Google Maps and, as such, benefits from a number of their mapping tools like Satellite View, Traffic View and Street View.

In the top right hand corner of the form are the menu controls. These allow for navigation **back** to the previous page, let the customer **print** what is on the screen, or return to the main menu for the **menu** option that is currently selected. These controls are available for all maps, reports and features.



Latest vehicle locations for Quartix at 12:29

At the top of the live tracking map is a header that displays which account is being viewed and the current time of the live information. The time will update if the customer remains on the live tracking form. The page refreshes every minute. If the system has received new information, it will be displayed on screen.

Customers can remain logged on to live tracking all day and the system will not log them out. If, however, they move to a different feature after a considerable length of time, then they will be prompted to log on to the website again.

When viewing any feature besides live tracking, the system will log users out after 20 minutes of inactivity.

To the right hand side of the map, just under the menu controls, there is a "notes" box, giving important information about actions that can be taken on the live tracking page.

By clicking on a vehicle's registration from the table underneath the map, the customer can zoom straight to that specific vehicle and follow it as it moves around the map. There is a prompt to cancel this option.

Currently following vehicle 1. Click here to cancel.

Notes

To zoom in click on any of the vehicle symbols. To follow a vehicle, click on the registration in the list below.

Clicking on the vehicle icon presents the following options:

Daily Log: Takes the customer directly to the Daily Vehicle Log for the current day for the vehicle that has been selected. If there is no data for the current day, the system will display the most recent data that is available.

Route Map: Takes the customer to the Daily Route Map for the current day for the vehicle that has been selected. Again, if there is no data for the current day, the most recent available data will be displayed.

Zoom and Follow: Zooms in on the selected vehicle and follows it as the system updates. This can be cancelled as seen above.

Zoom to Location: Zooms to the selected vehicle's current location. If the vehicle moves, then the system will not follow that vehicle; it will stay on the location.

There is also an information box under these options that gives further data on the selected vehicle, such as direction of travel, speed of travel, and the date and time that the event was recorded.



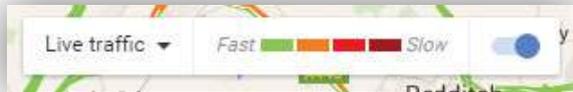
There are several map options that can be chosen according to the customer's needs.

With live-tracking, there is the option to switch to Satellite or Terrain view from Google Maps.

In addition to these, there is also a very useful option to show live traffic information, when available.

This option will colour the road on the map depending on the movement of the traffic on that stretch of road.

Below is Google's traffic key.



Using live tracking

The live tracking map automatically scales itself to include all selected vehicles on the initial screen, giving their current location based on the most recent information that the units transmitted.

The icons representing each vehicle can be selected from a customisable list that includes vans, lorries and cars in a variety of colours. The default setting for a tracked vehicle is a red transit type car.

Under the live tracking map, there is a table that lists all of the vehicles currently displayed on the map. This will depend on any filters that have been chosen on the selection form. If only one vehicle is being tracked, it is the only one that will show below the map.



Registration	Description	Event	Time
AB123CD	Red Transit Car	Ignition On	10:00:00
AB123CD	Red Transit Car	Ignition Off	10:05:00
AB123CD	Red Transit Car	Ignition On	10:10:00
AB123CD	Red Transit Car	Ignition Off	10:15:00
AB123CD	Red Transit Car	Ignition On	10:20:00
AB123CD	Red Transit Car	Ignition Off	10:25:00
AB123CD	Red Transit Car	Ignition On	10:30:00
AB123CD	Red Transit Car	Ignition Off	10:35:00
AB123CD	Red Transit Car	Ignition On	10:40:00
AB123CD	Red Transit Car	Ignition Off	10:45:00
AB123CD	Red Transit Car	Ignition On	10:50:00
AB123CD	Red Transit Car	Ignition Off	10:55:00
AB123CD	Red Transit Car	Ignition On	11:00:00
AB123CD	Red Transit Car	Ignition Off	11:05:00
AB123CD	Red Transit Car	Ignition On	11:10:00
AB123CD	Red Transit Car	Ignition Off	11:15:00
AB123CD	Red Transit Car	Ignition On	11:20:00
AB123CD	Red Transit Car	Ignition Off	11:25:00
AB123CD	Red Transit Car	Ignition On	11:30:00
AB123CD	Red Transit Car	Ignition Off	11:35:00
AB123CD	Red Transit Car	Ignition On	11:40:00
AB123CD	Red Transit Car	Ignition Off	11:45:00
AB123CD	Red Transit Car	Ignition On	11:50:00
AB123CD	Red Transit Car	Ignition Off	11:55:00
AB123CD	Red Transit Car	Ignition On	12:00:00

By default, the table (as elsewhere within the system) lists the vehicles in alphabetical order by registration, but it is possible to customise this. It also uses the descriptions that have been assigned to each vehicle.

The final column shows the most recent event information that has been received from the unit. This includes information on what the vehicle is doing, including the direction of travel and speed, if the vehicle is moving. If the ignition is off or the vehicle is stopped with the ignition on, the table will also show this information. If the vehicle is moving, the time will be when that latest movement event was recorded. If the ignition is off or the vehicle has stopped with ignition on, the time will be when those events were recorded.

Hovering over any of the vehicle icons on the map displays a pop-up that provides information on the vehicle (registration and description) and what the vehicle is doing. If the vehicle is travelling, it gives the heading, speed, and time the event was recorded. If the vehicle is stopped with either the ignition off or in a "stopped with ignition-on" state, it shows the address of where that event was recorded.



An additional feature that is available with some Quartix packages allows customers to view a vehicle's current speed distribution information. When selected from the pop-up screen, the customer can see the speed at which the vehicle is currently driving and the specific stretch of road that it is travelling along. They can also see how that speed compares to other speeds recorded on the same stretch of road at the same time of the day.

To determine this, a percentile figure is displayed. In this example, the driver is in the 81% percentile, meaning that 80% of the driving speeds recorded on that section of road were slower than this driver.

Safe speed allows the customer to look at the speeds that have been recorded and the spread of those speeds, and determine how safely their drivers are taking to the roads.

Live tracking can also be used to determine which vehicle is closest to a given location. For example, if a dispatcher needs to find out which engineer is closest to an emergency call, this can be done via live tracking. They simply input an address or postcode into the "address" field on the main live tracking selection page, click "OK" the normal live tracking map and a table will show with additional information.

Address

Show custom locations on map

Address

Show custom locations on map



On the map, a yellow circle shows the location of the address/postcode that has been entered.

If a customer is logged on to the Quartix website with their administrator login details, they can click on this yellow circle to bring up a page which allows them to add it as a customised location. This location will show on all future reports when their vehicles visit that site.

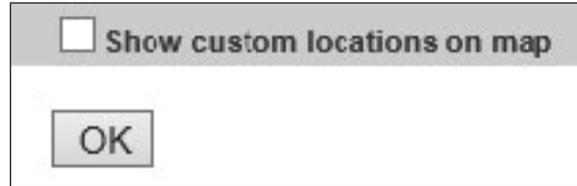
On the table, under the live tracking map, the vehicle that is highlighted in yellow is the one that the system has determined to be the closest to the location entered in the address field.

Vehicle ID	Registration	Current Location
SRV 2	AK 1M	Cardiff
SRV 6	EN 1D	Cardiff

Another feature available through live tracking is the ability to display all customised locations on one map.

For example, a customer has a sales person out on the road who calls in to ask if there are any customers around them that they can drop in on for a quick courtesy call, since they have finished their scheduled visits. Finding custom locations around their current location is simple.

To view the customised locations, the customer need only click on the "Show custom locations on map" check box on the live-tracking menu, then "OK".



All customised locations that the customer has set up on the system appear on the map as blue dots.

Hovering over a blue dot brings up a "tool tip" box that displays information on the customised location and contains an option to "Click to Edit." If the customer is logged into the system as an administrator, they can make amendments to the customised location.



The Daily Vehicle Log is one of the three core features of the Quartix tracking system. It is a report that contains all of the trip information that a unit has recorded for a specific vehicle on a specific date.

These logs are accessed from the main application menu on the left hand side of the Quartix website.

Live tracking, daily vehicle logs, and daily route maps will always be the top three on the menu list.

As with all reports, the Quartix system holds 12 months worth of data on our servers. Historical data can be easily retrieved.

Quartix application menu

- > Live Tracking
- > Daily Vehicle Logs
- > Daily Route Maps
- + Trip Reporting
- + Fleet Management
- + Driving Style
- + Configuration
- > [Click here to Log Out](#)



Clicking on the link to the daily vehicle logs brings up a form; the customer can select a vehicle either by clicking on the drop down list and searching for the registration number, or by selecting a group first, to narrow down the search. After a vehicle is selected, the customer must select a date, as well. As “today” and “yesterday” are the most chosen dates to be viewed, these each have their own menu button.

To enter any other date, the customer can choose from the drop-down calendar or manually enter their selection into the date field, in the UK format of DD/MM/YYYY.

Before running the report, the customer has the final option to “Show time on site.” When enabled, the report will then show the amount of time that the vehicle has spent at each location for the date chosen.

The Daily Vehicle Log will appear as below:

Trip ID	Start Time	End Time	Location	Fuel	Miles	Average Speed	Ignition On
1001	08:00	08:15	London - Regent St, White, 4 (London, UK)	0.01	0.1	10.0	10.0
1002	08:15	08:30	London - Regent St, White, 4 (London, UK)	0.01	0.1	10.0	10.0
1003	08:30	08:45	London - Regent St, White, 4 (London, UK)	0.01	0.1	10.0	10.0
1004	08:45	09:00	London - Regent St, White, 4 (London, UK)	0.01	0.1	10.0	10.0
1005	09:00	09:15	London - Regent St, White, 4 (London, UK)	0.01	0.1	10.0	10.0
1006	09:15	09:30	London - Regent St, White, 4 (London, UK)	0.01	0.1	10.0	10.0
1007	09:30	09:45	London - Regent St, White, 4 (London, UK)	0.01	0.1	10.0	10.0
1008	09:45	10:00	London - Regent St, White, 4 (London, UK)	0.01	0.1	10.0	10.0
1009	10:00	10:15	London - Regent St, White, 4 (London, UK)	0.01	0.1	10.0	10.0
1010	10:15	10:30	London - Regent St, White, 4 (London, UK)	0.01	0.1	10.0	10.0
Totals				0.07	0.7	10.0	10.0

Notes

1. Asterisk (*) after departure time indicates previous day/shift.
2. New trip threshold 10 metres
3. Stops with ignition on are displayed.
4. Travel time excludes idling, average speed calculation includes idling.

The new trip threshold and whether stops with ignition on are displayed can be changed by your administrator or Quartix Technical Support.

On the right hand side of the report is a “Notes” section.

This gives the user key information about some of the rules that are in place on this report.

Key points relate to the new trip threshold and whether stops with ignition on are displayed. The unit records all trip information regardless of how long the trip is, as long as it detects a valid ignition on and off. However, unless the trip meets the criteria set for the new trip threshold, it will not show on the report.

At the top of the Daily Vehicle Log, there is key information which tells a user which report they are running, who it is for, and gives details of the vehicle that the report is being run against.

The system shows the date of the report currently being viewed. To either side of the date are arrows pointing left and right. Left allows the user to navigate to a previous date; right lets the user move forward in time.



If the viewer is on the current date, nothing will happen if they click on the right arrow.

Using these controls within the report allows the user to avoid going back to the main selection form to select a different date from the calendar control. If, however, the user wishes to review a date that is quite a ways in the past, then it would be better to go back to the selection form and choose the date using the calendar or by manually entering it into the field.

Each trip that shows on the daily vehicle log is given a number.

Daily Vehicle Log for Demo QX61 JFT Peugeot Partner

A trip is defined as being from the “ignition-on” through to the “ignition-off”. If the customer has “stops with ignition on” enabled on the report, then they can see sub-trips as part of the main trip. They will start with “Stopped” and then a location. There will also be a time showing in the “idling” column, to give the amount of idling time for that trip.

On the left hand side of the trip, just below the trip number, there is the image of a magnifying glass. Clicking on this image takes the user through to the daily route map for that specific trip.



If the user moves on, they can return to the daily vehicle log by clicking on the back button that is in the top right hand corner of the daily route map form.

Depart

This is the time and location that the unit recorded as the start of the trip, when the unit has detected an ignition-on event. The unit records the time the ignition went on, and when that data is transmitted the Quartix servers, the location is calculated based on the latitude and longitude information that the unit recorded.

Depart	
09:24	- HOME

Arrive

This is the time and location that the unit recorded as the arrival at a location, when the unit has recorded the ignition turning off. The location is calculated using the latitude and longitude information that the unit has recorded; this is then converted into an address.

Arrive	
09:30	Strawberry Way East, Whitby, ELLESMERE PORT, CH662PF

Customised location

The system can be customised so that rather than seeing a street address on the report, it is replaced with a name that is more meaningful to the user. For example, the driver’s home address may be named BOB—HOME. Locations could also be labelled with a company’s name and account number. For example, QUARTIX—AC12345. If customised locations are set up, the system checks these when processing data and records the customised location name rather than the address on the report.

Travel time

As travel time excludes any idling, it is defined as the time between the ignition on and ignition off for a specific trip in which the vehicle is actually moving. It is recorded in hours and minutes.

Travel Time
0:05

The total for each trip is shown on the report, along with the total travel time for the day.

Idling time

On each unit, there is an idling threshold. This is the amount of time that a vehicle will be stationary with the ignition on before a stop event is recorded. By default, this is two minutes. The idling time is the total amount of time that the vehicle is stationary with the ignition on for the trip and the whole day.

Idling time
0:00

Time on Site

This is the total time spent on site between the ignition off and the next ignition on. The system also adds up all the time on site figures to provide the total for the day.

Time on site
0:03

Distance (Miles)

This is the total distance that the unit has recorded for the trip between the ignition on and the ignition off. The unit itself records all distances in kilometres, but the website shows all distances in the UK measurement of miles.

Distance (miles)
1.3

Totals

The totals provide key indications of what the user's vehicles have been doing on a specific day. By comparing the totals between vehicles, it is possible to determine if certain vehicles have been over-used, are idling too much, or if they are being driven too fast.

Totals	1:43	0:12	42.8	22.3	10:08
--------	------	------	------	------	-------

Average Speed (MPH)

This is the average speed for each trip, along with an average for the day. While the idling time is not included in the travelling time calculation, it is included in the average speed calculation.

Average Speed (mph)
15.7

The Daily Vehicle Log is set up as a standard feature, to be e-mailed to the respective contacts that users have established on the system. It can, however, be printed via the website using the "print" button located in the top right hand corner of the report.

Printing is controlled by the attributes of the web browser the customer is utilising, so Internet Explorer and Google Chrome will operate slightly differently. The formatting on the printed version of the report can be different to what the customer received in their e-mail. The example below is what Microsoft Edge users would see printed.



E-mailed Report

The Daily Vehicle Log can be set up to be e-mailed to any number of recipients. If it is a large number, it may be better for the user to have a distribution group set up on their e-mail servers, so that they can control who receives the report.

With the Daily Vehicle Log, customers receive one e-mailed report for each vehicle. For 150 vehicles, they would receive 150 e-mails.

There is another report, however, that can reduce the number of e-mails received.



The Daily Route Map is a graphical representation of the trips that the user's vehicles have undertaken.

This is the third core feature of the Quartix system and it is accessed either by the main application menu on the left hand side of the Quartix webpage or via a link from the daily vehicle logs or live-tracking.

The main method for viewing a route that a vehicle has taken is the same as viewing the daily vehicle log.

When a user clicks on the daily route maps, they reach a menu wherein they can select a vehicle, either by clicking on the drop-down list of registration numbers and scrolling through all the vehicles, or by selecting a group to narrow down the vehicle search.

After they have selected a vehicle, they must select the date they wish to review.



Quartix application menu

- > Live Tracking
- > Daily Vehicle Logs
- > Daily Route Maps
- + Trip Reporting
- + Fleet Management
- + Driving Style
- + Configuration
- > [Click here to Log Out](#)

There are options to automatically enter the dates for "today" and "yesterday," as these are the most popular dates.

Users can also use the calendar control to find the date that they are interested in, or they can manually type it in. This needs to be in the UK date format of DD/MM/YYYY.

There is one final option that can be selected before clicking on OK which is "build up daily routes on screen."

As with the Daily Vehicle Log, they key components of the Daily Route Map are clearly marked.

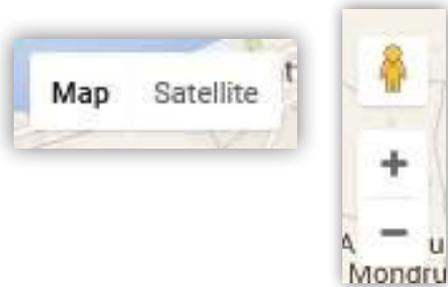
On the right hand side on the main map, there is a key that explains the data point information visible on the maps.

This includes the icons for the start and end of a trip, along with the colour coding for the various speed brackets.



There are two Google-created sets of controls that are visible on the Daily Route Maps. These may change over time as Google updates their software.

These controls let the user switch between types of maps (Map, Terrain, or Satellite), access Street View (by dragging the person icon onto the map and placing it on a road until it turns blue), and zoom in and out on the map using the plus and minus buttons. The user can also zoom in and out using the scroll wheel on their mouse.



Daily route map for Demo
Vehicle: QX61 JFT Peugeot Partner

At the top of the Daily Route Map, in the left hand corner, there is the same information that is shown on the Daily Vehicle Log: the type of report that is being viewed, the customer viewing it (this will be the users subscriber ID), the vehicle registration, and the description of the vehicle.



Within the Daily Route Maps, there are two navigation controls, to move between dates, as with the daily vehicle log, but also to move between trips taken on those dates.

There are arrows pointing left and right. For dates, the left arrow allows the user to navigate to a previous date and the right arrow to a date after the date they are viewing. For the trips, the left arrow navigates to the previous trip and the right arrow navigates to the next trip.

The system lets the user know how many trips there were for the day, in chronological order, and the outside arrow buttons on the trip counter will take them straight to the first trip of the day (to the left) or the last trip of the day (to the right).

Each circle on the Daily Route Map is a data point or event that the vehicle's tracking unit has recorded. The > in the circle indicates the heading (direction of travel), and the different colours represent different speed bands; the unit records the speed the vehicle was travelling for each movement event.

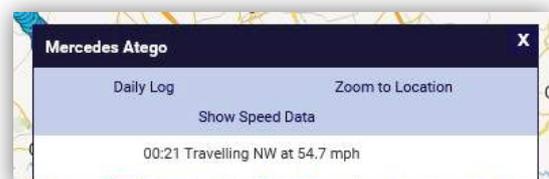
The start of the trip is the green flag and the end of the trip is the chequered flag.

Hovering over any of the data points reveals additional information that has been recorded: the time of the event, the heading (north, south, east, west) and the exact speed.



Google controls allow the user to change how they view the Daily Route Maps, between Satellite, Terrain, or Street View.

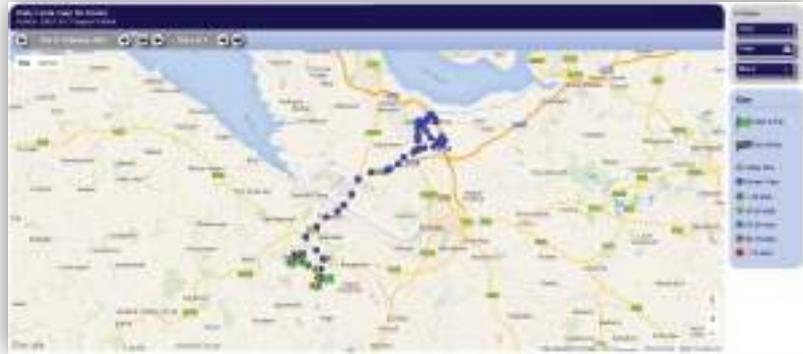
As with live tracking, the user can also view the daily log for the trip, zoom to the location, and review the safe speed data by clicking on any of the data points.



Users can also opt to see all routes for the vehicle for a specific date on the map at once, by checking the 'build up daily routes on screen' option on the daily route map selection screen.

Moving through each trip using the trip navigation controls, the system displays the current trip with the normal movement icons, so the user can see the speeds recorded, but it also displays the previous trips on the map. These are shown with blue dots where the data points have been recorded.

Hovering over any of the blue dots shows the information about that data point, including the time, heading, and speed, the same as the normal data points.



As with other areas of the Quartix application the Daily Route Map can be printed via the website using the "Print" button that is in the top right hand corner of the report.

Printing is controlled by the printing attributes of the web browser being used, so Internet Explorer and Google Chrome will operate slightly differently.

The Trip Reporting section of the Quartix application has a number of reports available that give the user important, higher level information about the trips that the Quartix unit has recorded.



Daily Driver Log	This report is the same as the daily vehicle log, but it is run against a driver rather than a vehicle. It allows the customer to see which vehicles a particular driver has used.
Daily Route Chart	Displays all the routes that have been recorded for a specific day for all vehicles or for a specific group of vehicles.
Monthly Summary Spreadsheet	This spreadsheet gives the user mileage and utilisation information for the month.
Trip Reporter	Allows the user to generate a report that provides trip information for a individual vehicle, group or all vehicles over an extended time period.
Weekly Route Chart	This chart is essentially the same as the daily route chart, but it covers a full week of routes.
Weekly Summary Report	This summary report spans a full week and displays the start and end time information for the fleet's vehicles.

The Daily Driver Log is a report that contains the same details as the daily vehicle log, but is generated based on Driver ID information, rather than the vehicle registration.

The report is accessed by clicking on the daily driver log menu option from the main trip reporting list.

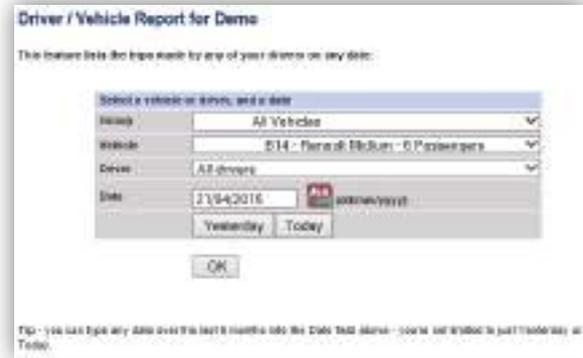
Clicking on this link brings up a Quartix selection screen, allowing the user to apply a number of filters in order to generate the report.

Group: Lets the user narrow their search by only looking at drivers or vehicles within a specific group.

Vehicle: By selecting a particular vehicle, the user can see if more than one driver used it on a selected date.

Driver: Allows the user to see the trips recorded for a specific driver on the selected date based on the driver ID tag that was used.

Date: Entering a date within the previous 12 months lets the user see all information for that date. There are buttons for “yesterday” and “today,” and the calendar controls are an easy way to select different dates. A date can also be manually entered using the DD/MM/YYYY date format.



On the right hand side of the report is a “Notes” section, giving the user key information about some of the rules that are in place on this report.

Some key points relate to the “New trip threshold” and whether stops with ignition on are displayed. The unit records all trip information, regardless of how long the trip was, as long as it detects a valid ignition on and off. However, unless the trip meets the criteria set for the new trip threshold, it will not show on the report.

In the top left hand corner of the report there is confirmation of the report information and the controls to move between dates.



Notes

1. Asterisk (*) after departure time indicates previous day/shift.
2. New trip threshold 250 metres
3. Stops with ignition on are displayed.
4. Travel time excludes idling, average speed calculation includes idling.

The new trip threshold and whether stops with ignition on are displayed can be changed by your administrator or Quartix Technical Support.

The daily driver log can be generated for a driver or for a vehicle.

For reports generated by driver, the driver's name is displayed above the date navigation controls. If the driver has used more than one vehicle on a day, then the registrations would be shown in the vehicles column. The rest of the information shown is the same as the standard daily vehicle log.

If the user chooses to look at the report by vehicle, only the drivers that have been registered as using the report will show up. This is the same as would be seen on the daily vehicle log.

Daily Vehicle Log for Driver
 Q01 L0 7:00 - Nov 07 2012 - 9:00am

Time	Event	Vehicle	Event Time	Miles	Duration (Hours)	Average Speed (Mph)	Driver
08:00	Registered with location	0800 - MORGAN, ERIK COVERTRY, CVT 5M1	08:00	0.00			Driver 1 - TQ 100A, 0708 0000
08:00	Registered with location	0800 - MORGAN, ERIK COVERTRY, CVT 5M1	08:00	0.00			
08:00	Registered with location	0800 - MORGAN, ERIK COVERTRY, CVT 5M1	08:00	0.00			
08:00	Registered with location	0800 - MORGAN, ERIK COVERTRY, CVT 5M1	08:00	0.00			
08:00	Registered with location	0800 - MORGAN, ERIK COVERTRY, CVT 5M1	08:00	0.00			
08:00	Registered with location	0800 - MORGAN, ERIK COVERTRY, CVT 5M1	08:00	0.00			Driver 1 - TQ 100A, 0708 0000
08:00	Registered with location	0800 - MORGAN, ERIK COVERTRY, CVT 5M1	08:00	0.00			
08:00	Registered with location	0800 - MORGAN, ERIK COVERTRY, CVT 5M1	08:00	0.00			
08:00	Registered with location	0800 - MORGAN, ERIK COVERTRY, CVT 5M1	08:00	0.00			
08:00	Registered with location	0800 - MORGAN, ERIK COVERTRY, CVT 5M1	08:00	0.00			
08:00	Registered with location	0800 - MORGAN, ERIK COVERTRY, CVT 5M1	08:00	0.00			Driver 1 - TQ 100A, 0708 0000
08:00	Registered with location	0800 - MORGAN, ERIK COVERTRY, CVT 5M1	08:00	0.00			
08:00	Registered with location	0800 - MORGAN, ERIK COVERTRY, CVT 5M1	08:00	0.00			
08:00	Registered with location	0800 - MORGAN, ERIK COVERTRY, CVT 5M1	08:00	0.00			
08:00	Registered with location	0800 - MORGAN, ERIK COVERTRY, CVT 5M1	08:00	0.00			

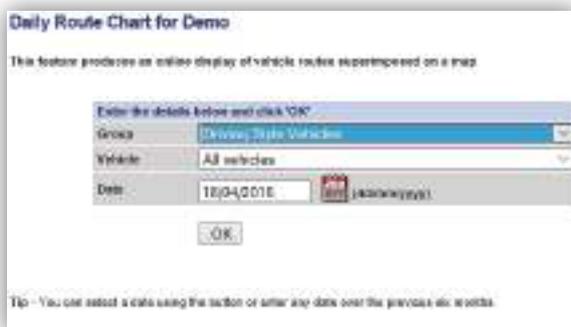
Daily Driver Log for
 Nov 07 2012

Time	Vehicle	Event	Event Time	Miles	Duration (Hours)	Average Speed (Mph)	
08:00	0800 - Ford Focus - 2 Passengers	08:00 Church Terrace, Church Road, Nantley, BIRMINGHAM, B20 0NE	08:00	0.00		0.0	
08:00	0800 - Ford Focus - 2 Passengers	08:00 BUCKLE RECOVERY - COVENTRY Depot	08:00	0.00		0.0	
08:00	0800 - Ford Focus - 2 Passengers	08:00 Cady Street, BIRMINGHAM, B7 4LS	08:00	0.00		0.0	
08:00	0800 - Ford Focus - 2 Passengers	08:00 Recovery	08:00	0.00		0.0	
				Totals	0.00	0.00	0.0

The Daily Route Chart is a report that displays all the routes that a customer's units recorded for the selected day. This report is often used to identify any overlaps in the routes that vehicles are undertaking, allowing for route optimisation and potential cost savings to be identified.

The report is accessed by clicking on the daily route chart menu option from the main trip reporting list.

Clicking on the daily route chart link brings up a standard Quartix selection screen, allowing the user to apply a number of filters in order to generate the report.

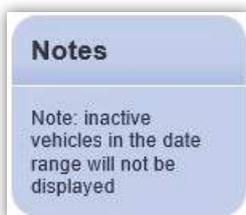


Group: Allows the user to filter the report based on a specific group of vehicles or all groups. For example, they can choose to only view the routes for delivery vehicles or for sales vehicles.

Vehicles: Allows the user to run the report for all vehicles or for a specific vehicle. "All vehicles" lets them see any overlaps in routes. Viewing a single vehicle shows all the routes that were undertaken on the selected day.

Date: Allows the user to view the routes taken on a specific day. The Quartix website holds 12 months worth of data; anything over 12 months is archived.

When the report is generated, there is an option to build up all the routes for each vehicle on screen and overlay them on the Google Map. As this happens, the list of vehicles on the right hand side of the map will increase and the report will count down until it shows all of the vehicles in the selected group.



The "Notes" section has key information about what the user can do on this specific report, such as advising the user on how they can change the information that is showing on the Google map.

Tip - add or remove journeys for each vehicle using the checkbox. Click on the route or vehicle description to highlight stops for that vehicle. Hover over the stop markers to see details of date, time and location.



As with the daily vehicle log, users can move through the days using the date control arrows that are in the top left hand corner of the report.



Also, as the user moves through each day, the report will have to reload for the vehicles that have been selected.

The report itself can be split into two key areas:

Vehicle list

Displays all vehicles that have reported tracking data on a particular day.

If a unit has not recorded any information for the day (if the driver is on leave or off sick, for example), then the vehicle will not be included in the list.

Unticking and ticking the check boxes on this list controls whether the route information shows on the Google Map to the left hand side of the vehicle list.

There is also a "tip" at the top of the list which gives additional information.



Map

This shows all the routes that the vehicles listed have recorded for the selected date.

It is an easy way to see, at a glance, if there are any overlaps in the routes that the vehicles have undertaken.

This allows users to optimise vehicle resources in order to get the most out of their fleet, and can also aid in reducing expenses, such as fuel costs.

With the daily route chart, as with all Quartix maps, users have the ability to zoom in and out, and pan left/right and up/down in order to get the most out of the information recorded.

In the example to the right, the vehicle list has been amended so that only certain vehicles are showing on the map; the zoom function has brought a specific section into focus.

The same section of map has been changed to Satellite view.



The Monthly Summary spreadsheet is a report that contains data for a month's time period. It contains summary information along with utilisation and mileage information.

The report is a useful tool in analysing whether a customer is getting the most benefit out of the vehicles within their fleet as it allows them to see over and under-utilised vehicles.

Customers can access this report by clicking on the monthly summary spreadsheet menu option from the main trip reporting list. This specific report is one of Quartix's longest-standing and, as such, it is e-mailed as an Excel attachment. Being in Excel, the data can be reformatted by the customer to suit their needs.



Clicking on the monthly summary report brings up a Quartix selection menu, where the customer can choose a group of vehicles. The report has to be run for a group, even if all vehicles are selected.

The customer then inputs an e-mail address that is to receive the report and the month they wish to view. A message will appear with further information.

Clicking OK will generate and send the report as ordered.

The size of the Excel attachment that contains the monthly summary report is approximately 3 MB. If there are any size restrictions on a user's in-bound e-mails, then they would need to make arrangements to ensure they can receive the report.

Quartix suggests that customers save the Excel attachment to their PC, rather than trying to open it directly from the e-mail.

If a customer were to click on the attachment and preview it in Outlook, their browser would not display all of the information contained within. Outlook uses an Excel Viewer that is unable to process all the macros that are embedded in the spreadsheet.

This means that in order to view this and other Excel reports that can be generated by the Quartix system, customers will need a full version of Microsoft Excel.

Once the attachment is saved and opened, there will be an Excel warning message..

"Click for more details," then click on the "Edit Anyway" button.



Clicking on the registration tab brings up a number of sections with extensive information.



Utilisation summary

This provides summary utilisation information for the vehicle. It includes the total shift time and net hours. The utilisation percentage is available by using the calculation options.

Total distance for the month, travel time, and the time that has been recorded away from the customer's base address is also included.



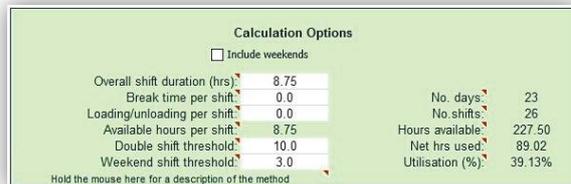
Away from base

This is a parameter wherein the customer can calculate the time a vehicle is away from either its overnight location or a depot. The settings of these parameters will depend on whether the vehicle is taken home by a driver overnight or is returned to a main depot and kept there overnight.



The user can also set the nominal fuel consumption to get the expected fuel usage for the month. By default, it will be taken from the value set in the database.

The calculation section allows the user to make changes to some parameters, to get results that are more specific to their business.



Overall Shift Duration	The overall shift time includes breaks, loading time, etc. Note: The figure entered on the first vehicle page will be used as the default for all vehicles, but it can be changed for individual vehicles if required.
Break Time per Shift	This is the allowance (in hours) for breaks during each shift. This will be subtracted from the total shift time when calculating available time, and if the vehicle is used for more than one hour, it will be subtracted from the daily hours used to calculate utilisation. Note: The figure entered on the first vehicle page will be used as the default for all vehicles, but it can be changed for individual vehicles if required.
Loading/Unloading per Shift	This is the allowance (in hours) for loading/unloading during each shift. This will be subtracted from the total shift time when calculating vehicle utilisation. Note: The figure entered here will be used as the default for all vehicles, but it can be changed for individual vehicles if required.
Available Hours per Shift	This is the number of hours available in the shift, once the break time and loading/unloading time have been deducted from the overall shift time.
Double Shift Threshold	If the time the vehicle is used on any day exceeds this threshold, two shifts are deemed to have been undertaken.
Weekend Shift Threshold	If the vehicle is used for more than this time on a weekend, a single shift is deemed to have been undertaken on that day, as long as the 'Include weekends' box is checked.

Calculation Options			
<input type="checkbox"/> Include weekends			
Overall shift duration (hrs):	8.75	No. days:	23
Break time per shift:	0.0	No. shifts:	26
Loading/unloading per shift:	0.0	Hours available:	227.50
Available hours per shift:	8.75	Net hrs used:	89.02
Double shift threshold:	10.0	Utilisation (%):	39.13%
Weekend shift threshold:	3.0		
Hold the mouse here for a description of the method			

No. Days	The total number of days used to calculate utilisation.
No. Shifts	The number of shifts for the month, based on the assumptions to the left regarding shift thresholds.
Hours Available	The maximum number of driving hours that could be expected for the vehicle during the month in question, calculated from the number of shifts and the net available time for each shift.
Net Hrs Used	The net number of hours the vehicle has been used, based on the calculation option selected on the Timesheet Summary page. When utilisation is based on Total Shift Time or Time Away from Base, the break time is deducted from the total hours to give the net hours for each shift, as the vehicle is assumed not to have been used during breaks.
Utilisation (%)	The percentage of available time during which the vehicle was used.

Calculation Options			
<input type="checkbox"/> Include weekends			
Overall shift duration (hrs):	8.75	No. days:	23
Break time per shift:	0.0	No. shifts:	26
Loading/unloading per shift:	0.0	Hours available:	227.50
Available hours per shift:	8.75	Net hrs used:	89.02
Double shift threshold:	10.0	Utilisation (%):	39.13%
Weekend shift threshold:	3.0		
Hold the mouse here for a description of the method			

Key calculation information

The following are some definitions, terms and explanations regarding how the calculation figures are used, to help interpret results that they will give.

Utilisation calculation

Utilisation is the percentage of time that the vehicle is used, compared to the time it is available for use.

Available hours

The number of hours available in which the vehicle can be used is calculated from the available time per shift and the number of shifts for the month.

Available time per shift

For all three calculation methods, the number of hours available for each shift is derived from the overall shift duration, minus any allowances for break time and loading/unloading.

Number of shifts

It is assumed that the vehicle operates one shift per day on weekdays, or two shifts if the vehicle is used for more than the number of hours specified in the 'Double shift threshold' cell. If the 'Include weekends' checkbox is selected, it is assumed that a single shift has been worked if the vehicle was used for at least the number of hours specified in the 'Weekend Shift Threshold' cell. If the vehicle works fewer hours than the threshold or if the 'Include weekends' checkbox is not selected, weekend days are ignored when calculating utilisation.

Hours used

The hours used can be calculated using one of three methods:

Method A

The number of hours the vehicle is used each day is assumed to start with the first ignition on at the start of the shift and end with the last ignition off. The allowance for breaks is then deducted from the total hours to give the net hours, which is used when calculating the utilisation. (This is because a break will normally be taken away from site.)

Method B

The number of hours the vehicle is used each day is taken from the travelling time. Breaks and loading/unloading are not subtracted from the hours used in this case, as they are assumed to occur when the vehicle is stationary.

Calculation Options			
<input type="checkbox"/> Include weekends			
Overall shift duration (hrs):	8.75	No. days:	23
Break time per shift:	0.0	No. shifts:	26
Loading/unloading per shift:	0.0	Hours available:	227.50
Available hours per shift:	8.75	Net hrs used:	89.02
Double shift threshold:	10.0	Utilisation (%):	39.13%
Weekend shift threshold:	3.0		
Hold the mouse here for a description of the method			

Method C

The daily 'hours used' figure is calculated from the time away from base during the day, i.e. the time from the first departure from the home base to the last return to the home base, minus any time spent at the home base in between. The allowance for breaks is then deducted from the total hours to give the net hours, which is used when calculating the utilisation. (This is because a break will normally be taken away from site.)

The information contained on the vehicle registration tab can be broken down into three main areas:

Trips

On the left hand side of the spreadsheet, there is a section that lists the "number of trips" for each day, the "total distance (miles)" travelled and the "total travel time".

To the right of the "total travel time," there is also the "expected fuel used" in gallons and litres.

Date	Number of trips	Total distance (miles)	Total travel time
Tue 1 Mar	5	44.6	01:22
Wed 2 Mar	4	23.8	00:42
Thu 3 Mar	5	46.1	01:28
Fri 4 Mar	-	-	-
Sat 5 Mar	1	10.4	00:18
Sun 6 Mar	3	15.2	00:33
Mon 7 Mar	6	131.3	04:01
Tue 8 Mar	-	-	-
Wed 9 Mar	2	7.0	00:08
Thu 10 Mar	5	27.4	01:06
Fri 11 Mar	3	63.3	01:07
Sat 12 Mar	4	50.3	01:14
Sun 13 Mar	7	126.9	02:53

Expected fuel used (gals)	(litres)	Start of first trip	End of last trip	Total Shift Time	Away from base' day starts at:	Away from base' day ends at:	Time at Home in between	Overall time away from Home
1.2	5.3	10:38	18:46	08:08	10:38	18:46	-	08:08
0.6	2.8	12:36	16:13	03:37	12:36	16:13	-	03:37
1.2	5.4	15:18	22:11	06:53	15:18	22:11	-	06:53
-	-	-	-	-	-	-	-	-
0.3	1.2	08:51	09:07	00:16	08:51	09:07	-	00:16
0.4	1.8	18:07	18:51	00:44	18:07	18:51	-	00:44
3.5	15.7	08:44	21:17	12:33	08:44	21:17	-	12:33
-	-	-	-	-	-	-	-	-
0.0	0.1	09:37	10:34	00:57	09:37	10:34	-	00:57
0.7	3.3	08:27	22:08	13:41	08:27	22:08	-	13:41
1.3	6.1	19:06	21:10	02:04	19:06	21:10	-	02:04
1.3	6.0	06:28	10:53	04:25	06:28	10:53	-	04:25
3.3	15.2	04:44	13:42	08:58	04:44	13:42	-	08:58

Utilisation

This works out as the number of shifts based on the overall shift duration. Taking double shifts into account, it also shows the net hours used.

This is then used to calculate the daily utilisation percentage.

Number of shifts	Total Available hrs	Net hours used:	Daily utilisation (%)
1	8.75	8.13	93.0%
1	8.75	3.62	41.3%
1	8.75	6.88	78.7%
1	8.75	0.00	-
0	0.00	0.27	-
0	0.00	0.73	-
2	17.50	12.55	71.7%
1	8.75	0.00	-
1	8.75	0.95	10.9%
2	17.50	13.68	78.2%
1	8.75	2.07	23.6%
1	8.75	4.42	50.5%
1	8.75	8.97	102.5%

Expected fuel used (gals):	(litres):	Start of first trip:	End of last trip:	Total Shift Time	'Away from base' day starts at:	'Away from base' day ends at:	Time at Home in between	Overall time away from Home
1.2	5.3	10:38	18:46	08:08	10:38	18:46	-	08:08
0.6	2.8	12:36	16:13	03:37	12:36	16:13	-	03:37
1.2	5.4	15:18	22:11	06:53	15:18	22:11	-	06:53
-	-	-	-	-	-	-	-	-
0.3	1.2	08:51	09:07	00:16	08:51	09:07	-	00:16
0.4	1.8	18:07	18:51	00:44	18:07	18:51	-	00:44
3.5	15.7	08:44	21:17	12:33	08:44	21:17	-	12:33
-	-	-	-	-	-	-	-	-
0.0	0.1	09:37	10:34	00:57	09:37	10:34	-	00:57
0.7	3.3	08:27	22:08	13:41	08:27	22:08	-	13:41
1.3	6.1	19:06	21:10	02:04	19:06	21:10	-	02:04
1.3	6.0	06:28	10:53	04:25	06:28	10:53	-	04:25
3.3	15.2	04:44	13:42	08:58	04:44	13:42	-	08:58

Start of "Away from Base" day

If the selection is set to "Overnight location," this field will contain the start time of the first trip. If it is set to "Departure from depot," it will contain the first time the vehicle leaves the depot. If the vehicle never visits the depot, the day will start with the first trip.

End of "Away from Base" day

If the second selection button is set to "End of last trip," the day will end when the vehicle is last used. If the selection is "Return to depot," the day will end the last time the vehicle returns to the depot. If the vehicle never leaves the depot and or returns, the end of the day will be set to the end of the last trip. If the day starts at the overnight location, the last visit to the depot (or any single visit) will be used as the end of the day, if the day is deemed to end at the depot.

Trip Reporter enables the user to view summary and detailed trip information for their vehicles for extended time periods. It allows the user to run these reports against a vehicle or a driver, and to view business and private mileage, if the system is set up accordingly.

The ability to input a start and end date allows the user to run the report for these extended periods. The resulting information can then be exported into Microsoft Excel for further formatting.

The report is accessed by clicking on the “Trip Reporter” menu option from the main “Trip Reporting” report list.

Clicking on this option presents the user with an extended version of the standard Quartix search form.

There are additional parameters that can be turned on and off. Depending on what is selected, the user can control what information is displayed on the subsequent report and how that information is grouped.



Group	Allows the user to apply a filter to only include the data for a specific group of vehicles on the report.
Vehicle	Lets the user apply a filter to select the vehicles included on the report; this can be all vehicles or an individual vehicle.
Driver	If Driver ID is enabled, the user can select and run the report for a specific driver or for all drivers.
Group By	<p>Day (Vehicle Shifts) – Groups the report by day, based on the shift start time.</p> <p>Day (Driver shifts) – Groups the report by day, based on the driver’s shift start time.</p> <p>Vehicle – Groups the report by vehicle registration.</p> <p>Driver – If Driver ID is enabled, groups the report by driver.</p>
Start Date	This is the starting date for the report.
End Date	This is the ending date for the report.
Privacy	<p>Include Business Distance – By default, this will show all trips recorded, unless driver ID tags are set up to record business or private mileage.</p> <p>Include Private Distance – By default, this will be zero on the report, unless driver ID tags are set up to record business or private mileage.</p> <p>Include Untracked Distance – If the user has privacy enabled, then this will be any distances recorded during those time periods.</p>

When the report has been generated, the user will see a summary of the report.

Groupings on this chart will depend on the selections made on the previous screen.

At the top right, there are four options:

Back - navigates back to the previous page.

Print - prints the report.

Export - gives the option to export the report into a CSV file or Excel file.

Menu - returns the user to the selection screen.



Trip Reporter for Demo

Summary: Grouped by Day (vehicle shifts) for Driving Style Vehicles
Report Period: 01/03/2016 - 31/03/2016

Also at the top of the report a header that confirms the information on the time period and how the report is grouped.

On the Summary section of the report there are information totals for the time period of the report.

Vehicle	Trip Travel Time	Idling Time	Business Distance (Miles)	Private Distance (Miles)	Total Distance (Miles)
---------	------------------	-------------	---------------------------	--------------------------	------------------------

Vehicle / Driver	Will show as either the vehicle registration or the driver's name, depending on how it is filtered.
Trip Travel Time	The total of all travel times for the period the user is reviewing.
Idling Time	The total idling time for the period in question.
Business Distance (Miles)	By default, this includes all trips recorded, unless driver ID tags are set up to record business or private mileage.
Private Distance (Miles)	By default, this will be zero on the report, unless driver ID tags are set up to record business or private mileage.
Total Distance (Miles)	Total of the business and private mileage figures.
Untracked Mileage	If untracked mileage is included, it will show on the summary. This is the distance recorded during untracked reporting, where only the distance and ignition-off/stop location names are recorded.

In the summary section, users can view detail information by clicking on the magnifying glass icon next to the vehicle registration/date or driver.



This information page is the same as normally seen on the daily vehicle log. The difference is in the Distance information. The report marks if the distance recorded is "business" or "private." Untracked mileage only shows in the totals at the bottom of the detailed break-down.

Depending on how the report has been grouped, the controls to move between pages will either be either by date, vehicle, or driver.



The user can return to the summary page at any time by clicking on the link at the top right hand corner of the detail page where it says "Summary Screen."

Time	Vehicle	Driver	Start	End	Mileage	Rate	Total	Notes
08:00	2015-02-11	John Doe	1000	1000	0	0.00	0.00	
08:05	2015-02-11	John Doe	1000	1005	5	0.05	0.05	
08:10	2015-02-11	John Doe	1005	1010	5	0.05	0.10	
08:15	2015-02-11	John Doe	1010	1015	5	0.05	0.15	
08:20	2015-02-11	John Doe	1015	1020	5	0.05	0.20	
08:25	2015-02-11	John Doe	1020	1025	5	0.05	0.25	
08:30	2015-02-11	John Doe	1025	1030	5	0.05	0.30	
08:35	2015-02-11	John Doe	1030	1035	5	0.05	0.35	
08:40	2015-02-11	John Doe	1035	1040	5	0.05	0.40	
08:45	2015-02-11	John Doe	1040	1045	5	0.05	0.45	
08:50	2015-02-11	John Doe	1045	1050	5	0.05	0.50	
08:55	2015-02-11	John Doe	1050	1055	5	0.05	0.55	
09:00	2015-02-11	John Doe	1055	1060	5	0.05	0.60	
09:05	2015-02-11	John Doe	1060	1065	5	0.05	0.65	
09:10	2015-02-11	John Doe	1065	1070	5	0.05	0.70	
09:15	2015-02-11	John Doe	1070	1075	5	0.05	0.75	
09:20	2015-02-11	John Doe	1075	1080	5	0.05	0.80	
09:25	2015-02-11	John Doe	1080	1085	5	0.05	0.85	
09:30	2015-02-11	John Doe	1085	1090	5	0.05	0.90	
09:35	2015-02-11	John Doe	1090	1095	5	0.05	0.95	
09:40	2015-02-11	John Doe	1095	1100	5	0.05	1.00	
09:45	2015-02-11	John Doe	1100	1105	5	0.05	1.05	
09:50	2015-02-11	John Doe	1105	1110	5	0.05	1.10	
09:55	2015-02-11	John Doe	1110	1115	5	0.05	1.15	
10:00	2015-02-11	John Doe	1115	1120	5	0.05	1.20	
10:05	2015-02-11	John Doe	1120	1125	5	0.05	1.25	
10:10	2015-02-11	John Doe	1125	1130	5	0.05	1.30	
10:15	2015-02-11	John Doe	1130	1135	5	0.05	1.35	
10:20	2015-02-11	John Doe	1135	1140	5	0.05	1.40	
10:25	2015-02-11	John Doe	1140	1145	5	0.05	1.45	
10:30	2015-02-11	John Doe	1145	1150	5	0.05	1.50	
10:35	2015-02-11	John Doe	1150	1155	5	0.05	1.55	
10:40	2015-02-11	John Doe	1155	1160	5	0.05	1.60	
10:45	2015-02-11	John Doe	1160	1165	5	0.05	1.65	
10:50	2015-02-11	John Doe	1165	1170	5	0.05	1.70	
10:55	2015-02-11	John Doe	1170	1175	5	0.05	1.75	
11:00	2015-02-11	John Doe	1175	1180	5	0.05	1.80	
11:05	2015-02-11	John Doe	1180	1185	5	0.05	1.85	
11:10	2015-02-11	John Doe	1185	1190	5	0.05	1.90	
11:15	2015-02-11	John Doe	1190	1195	5	0.05	1.95	
11:20	2015-02-11	John Doe	1195	1200	5	0.05	2.00	
11:25	2015-02-11	John Doe	1200	1205	5	0.05	2.05	
11:30	2015-02-11	John Doe	1205	1210	5	0.05	2.10	
11:35	2015-02-11	John Doe	1210	1215	5	0.05	2.15	
11:40	2015-02-11	John Doe	1215	1220	5	0.05	2.20	
11:45	2015-02-11	John Doe	1220	1225	5	0.05	2.25	
11:50	2015-02-11	John Doe	1225	1230	5	0.05	2.30	
11:55	2015-02-11	John Doe	1230	1235	5	0.05	2.35	
12:00	2015-02-11	John Doe	1235	1240	5	0.05	2.40	
12:05	2015-02-11	John Doe	1240	1245	5	0.05	2.45	
12:10	2015-02-11	John Doe	1245	1250	5	0.05	2.50	
12:15	2015-02-11	John Doe	1250	1255	5	0.05	2.55	
12:20	2015-02-11	John Doe	1255	1260	5	0.05	2.60	
12:25	2015-02-11	John Doe	1260	1265	5	0.05	2.65	
12:30	2015-02-11	John Doe	1265	1270	5	0.05	2.70	
12:35	2015-02-11	John Doe	1270	1275	5	0.05	2.75	
12:40	2015-02-11	John Doe	1275	1280	5	0.05	2.80	
12:45	2015-02-11	John Doe	1280	1285	5	0.05	2.85	
12:50	2015-02-11	John Doe	1285	1290	5	0.05	2.90	
12:55	2015-02-11	John Doe	1290	1295	5	0.05	2.95	
13:00	2015-02-11	John Doe	1295	1300	5	0.05	3.00	
13:05	2015-02-11	John Doe	1300	1305	5	0.05	3.05	
13:10	2015-02-11	John Doe	1305	1310	5	0.05	3.10	
13:15	2015-02-11	John Doe	1310	1315	5	0.05	3.15	
13:20	2015-02-11	John Doe	1315	1320	5	0.05	3.20	
13:25	2015-02-11	John Doe	1320	1325	5	0.05	3.25	
13:30	2015-02-11	John Doe	1325	1330	5	0.05	3.30	
13:35	2015-02-11	John Doe	1330	1335	5	0.05	3.35	
13:40	2015-02-11	John Doe	1335	1340	5	0.05	3.40	
13:45	2015-02-11	John Doe	1340	1345	5	0.05	3.45	
13:50	2015-02-11	John Doe	1345	1350	5	0.05	3.50	
13:55	2015-02-11	John Doe	1350	1355	5	0.05	3.55	
14:00	2015-02-11	John Doe	1355	1360	5	0.05	3.60	
14:05	2015-02-11	John Doe	1360	1365	5	0.05	3.65	
14:10	2015-02-11	John Doe	1365	1370	5	0.05	3.70	
14:15	2015-02-11	John Doe	1370	1375	5	0.05	3.75	
14:20	2015-02-11	John Doe	1375	1380	5	0.05	3.80	
14:25	2015-02-11	John Doe	1380	1385	5	0.05	3.85	
14:30	2015-02-11	John Doe	1385	1390	5	0.05	3.90	
14:35	2015-02-11	John Doe	1390	1395	5	0.05	3.95	
14:40	2015-02-11	John Doe	1395	1400	5	0.05	4.00	
14:45	2015-02-11	John Doe	1400	1405	5	0.05	4.05	
14:50	2015-02-11	John Doe	1405	1410	5	0.05	4.10	
14:55	2015-02-11	John Doe	1410	1415	5	0.05	4.15	
15:00	2015-02-11	John Doe	1415	1420	5	0.05	4.20	
15:05	2015-02-11	John Doe	1420	1425	5	0.05	4.25	
15:10	2015-02-11	John Doe	1425	1430	5	0.05	4.30	
15:15	2015-02-11	John Doe	1430	1435	5	0.05	4.35	
15:20	2015-02-11	John Doe	1435	1440	5	0.05	4.40	
15:25	2015-02-11	John Doe	1440	1445	5	0.05	4.45	
15:30	2015-02-11	John Doe	1445	1450	5	0.05	4.50	
15:35	2015-02-11	John Doe	1450	1455	5	0.05	4.55	
15:40	2015-02-11	John Doe	1455	1460	5	0.05	4.60	
15:45	2015-02-11	John Doe	1460	1465	5	0.05	4.65	
15:50	2015-02-11	John Doe	1465	1470	5	0.05	4.70	
15:55	2015-02-11	John Doe	1470	1475	5	0.05	4.75	
16:00	2015-02-11	John Doe	1475	1480	5	0.05	4.80	
16:05	2015-02-11	John Doe	1480	1485	5	0.05	4.85	
16:10	2015-02-11	John Doe	1485	1490	5	0.05	4.90	
16:15	2015-02-11	John Doe	1490	1495	5	0.05	4.95	
16:20	2015-02-11	John Doe	1495	1500	5	0.05	5.00	
16:25	2015-02-11	John Doe	1500	1505	5	0.05	5.05	
16:30	2015-02-11	John Doe	1505	1510	5	0.05	5.10	
16:35	2015-02-11	John Doe	1510	1515	5	0.05	5.15	
16:40	2015-02-11	John Doe	1515	1520	5	0.05	5.20	
16:45	2015-02-11	John Doe	1520	1525	5	0.05	5.25	
16:50	2015-02-11	John Doe	1525	1530	5	0.05	5.30	
16:55	2015-02-11	John Doe	1530	1535	5	0.05	5.35	
17:00	2015-02-11	John Doe	1535	1540	5	0.05	5.40	
17:05	2015-02-11	John Doe	1540	1545	5	0.05	5.45	
17:10	2015-02-11	John Doe	1545	1550	5	0.05	5.50	
17:15	2015-02-11	John Doe	1550	1555	5	0.05	5.55	
17:20	2015-02-11	John Doe	1555	1560	5	0.05	5.60	
17:25	2015-02-11	John Doe	1560	1565	5	0.05	5.65	
17:30	2015-02-11	John Doe	1565	1570	5	0.05	5.70	
17:35	2015-02-11	John Doe	1570	1575	5	0.05	5.75	
17:40	2015-02-11	John Doe	1575	1580	5	0.05	5.80	
17:45	2015-02-11	John Doe	1580	1585	5	0.05	5.85	
17:50	2015-02-11	John Doe	1585	1590	5	0.05	5.90	
17:55	2015-02-11	John Doe	1590	1595	5	0.05	5.95	
18:00	2015-02-11	John Doe	1595	1600	5	0.05	6.00	
18:05	2015-02-11	John Doe	1600	1605	5	0.05	6.05	
18:10	2015-02-11	John Doe	1605	1610	5	0.05	6.10	
18:15	2015-02-11	John Doe	1610	1615	5	0.05	6.15	
18:20	2015-02-11	John Doe	1615	1620	5	0.05	6.20	
18:25	2015-02-11							

It is also possible to export from the "detailed" page. Doing so prompts additional selection options when the user is choosing the export parameters.



An additional option, "This Vehicle Only," allows the user to export only the trip information for the vehicle that is currently being viewed.

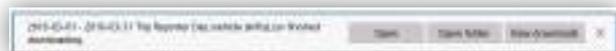
Also, the user can choose to "include subtrips." These are the parts of the trip where the vehicle stopped, but the ignition was not turned off.

Once these options have been decided on, the user chooses the file format they prefer.

This can either be a CSV (comma-separated values) file (this can be opened in Excel and Notepad) or a Microsoft Excel spreadsheet.

The choice the user makes regarding file type is greatly dependent on what they wish to do with the data after it has been exported.

Clicking on "Export" generates the report and prompts the user to either open the file or open the folder where it has been created.



When the information has been exported, the user will have an Excel spreadsheet that they can reformat as they wish.

Summary

Gives the user summary information for all the vehicles/drivers/dates that they are reviewing.

Detail

Contains more detailed information. If run for all vehicles it will include them all; for a single vehicle, it will be just the vehicle that was requested.

TRIP ID	START TIME	END TIME	START LOCATION	END LOCATION	TRIP TYPE	TRIP STATUS	TRIP MILEAGE	TRIP FUEL CONSUMPTION	TRIP FUEL COST	TRIP FUEL PRICE	TRIP FUEL TYPE	TRIP FUEL UNIT	TRIP FUEL RATE	TRIP FUEL TYPE	TRIP FUEL UNIT	TRIP FUEL RATE	TRIP FUEL TYPE	TRIP FUEL UNIT	TRIP FUEL RATE	
1	01/01/2014	01/01/2014

TRIP ID	START TIME	END TIME	START LOCATION	END LOCATION	TRIP TYPE	TRIP STATUS	TRIP MILEAGE	TRIP FUEL CONSUMPTION	TRIP FUEL COST	TRIP FUEL PRICE	TRIP FUEL TYPE	TRIP FUEL UNIT	TRIP FUEL RATE	TRIP FUEL TYPE	TRIP FUEL UNIT	TRIP FUEL RATE	TRIP FUEL TYPE	TRIP FUEL UNIT	TRIP FUEL RATE	
1	01/01/2014	01/01/2014

The weekly route chart is a report that displays all the routes that a customer's units recorded for the selected week. This report is often utilised to identify any overlaps in the routes that vehicles are undertaking, allowing for route optimisation and potential cost savings to be identified.

The report is accessed by clicking on the "Weekly Route Chart" menu option from the main "Trip Reporting" reports list.

This brings up a standard Quartix selection screen and the user can apply a number of filters in order to generate the report. The calendar controls can be used to select any week within the last 12 months.



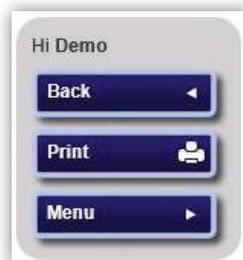
Group: Allows the user to filter the report based on a specific group of vehicles or all groups. For example, they can choose to view the routes for only their delivery vehicles or their sales vehicles.

Vehicles: Allows the user to run the report for "all vehicles" or for a specific vehicle. All vehicles lets the user see any overlaps in routes. Viewing a single vehicle lets them see all the routes that were undertaken on the selected day.

Date: Allows the user to select the date they wish to review. The Quartix website holds 12 months worth of live data; anything over 12 months is archived.

When the report is generated, the system will build up all the routes for each vehicle on screen and overlay them on the Google Map. As this happens, the list of vehicles on the right hand side of the map will increase and the report will count down until it has added all the vehicles in the group you have selected.

As with all forms on the Quartix website, there are the standard menu controls of "BACK", "PRINT" and "MENU".



Tip - add or remove journeys for each vehicle using the checkbox. Click on the route or vehicle description to highlight stops for that vehicle. Hover over the stop markers to see details of date, time and location.

All vehicles have been loaded

- QX11 LWP, BMW 350
- QX50 SCO, BMW 535D
- QX12 BNB, Citroen Berlingo

Notes

Note: inactive vehicles in the date range will not be displayed

The "Notes" section provides key information about what the user can do on this specific report, such as advising the user on how they can change the information that is showing on the Google map.

As with the weekly vehicle log, the user can move through the weeks using the date control arrows that are in the top left hand corner of the report. As the user moves through each week, the report will have to regenerate for the vehicles that have been selected.



The report itself can be split into two key areas:

Vehicle list

This lists all the vehicles that have reported tracking data for the date for which the report was generated.

If a unit has not recorded any information for the day (if the driver is on leave or off sick, for example), then the vehicle will not be included in the list.

Unticking and ticking the check boxes on this list controls whether the route information shows on the Google Map to the left hand side of the vehicle list.

There is also a "tip" at the top of the list which gives additional information.



Map

This shows all the routes that the vehicles listed have recorded for the selected week.

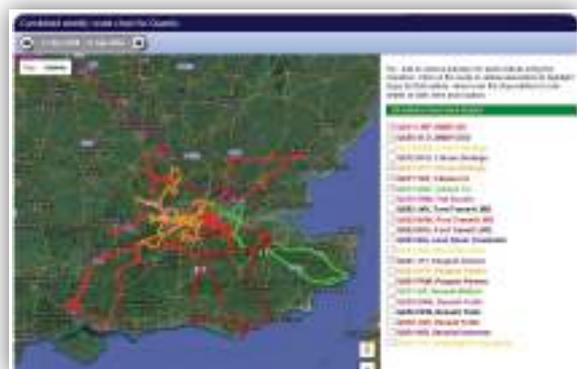
It is an easy way to see, at a glance, if there are any overlaps in the routes that the vehicles have undertaken.

This allows users to optimise vehicle resources in order to get the most out of their fleet, and can also aid in reducing expenses, such as fuel costs.



As with all Quartix maps, the user has the ability to zoom in and out, and pan left/right and up/down in order to get the most out of the information recorded.

In the example to the right, the vehicle list has been amended so that only certain vehicles are showing on the map; the zoom function has brought a specific section into focus.



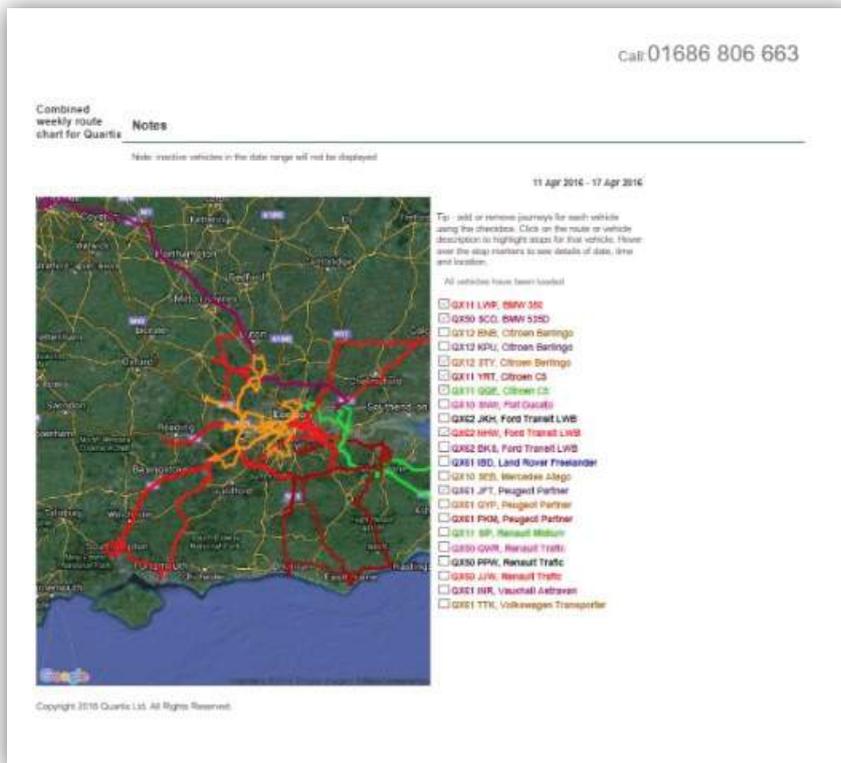
To the left, the same magnification has been changed from the standard Google Map to Satellite View.

It is possible to print the map and vehicle list for the report that is being viewed.

If the user has unlisted vehicles, then they will not be included on the printout.

It might be necessary to centre the map in order for it to print out correctly. Depending on the user's web browser they might need to narrow the map printout from widescreen.

Below is an example of the print preview screen for Microsoft's Edge web browser.



For this and all other print options, the majority of the print controls that are used are ones within the web browser software, so the printing of the reports will be different between the main web browsers: Microsoft Internet Explorer and Edge, Google Chrome, Mozilla Firefox, and Apple Safari.

The weekly summary report gives the start and end information for the user's vehicles for a specific week.

This report shows the first ignition-on and off information for each day, as well as the first arrival and last departure from a visited location.

It is accessed by clicking on the "Weekly Summary Report" menu option from the main "Trip Reporting" reports list.

Clicking on the weekly summary report brings up one of the standard Quartix selection screens, allowing the user to apply a number of filters in order to generate the report.

There is the usual "group" option to select a specific group, and the user can opt to include mileage information. There is also an option to "group by," either by vehicle or by day.

Weekly Summary Report for Demo

This feature lists the shift times for each vehicle for a selected week

Select a vehicle and date

Group: Driving Style Vehicles

Show mileage

Group by: Vehicle Day

Week ending (date): 15/04/2016 (dd/mm/yyyy)

Last Friday

OK

Tip - you can type any date over the last 6 months into the Date field above - you're not limited to just Yesterday or Today.

There is an button to choose the previous Friday as a starting point, but users can also choose a date with the calendar controls or type one in, using the DD/MM/YYYY date format.

On the search screen, there is an option to change the "Group By" parameter, to alter how the information is grouped when the report is displayed. This does not change the information that is actually included on the report, apart from the totals, as these are controlled by the "Group By" parameter.

The user can also group the information by vehicle that they can see the seven days that make up the week for each vehicle that has been included in the report.

Quartix													
Weekly Summary for: Group													
Week ending Fri 15 April 2016													
Vehicle	Day	First Ignition On	Last Ignition Off	Start Location	Last Location	Start Time	End Time	Start Location	End Location	Start Time	End Time	Mileage	Mileage
Sat	1842081	18:41	18:27	Recovery	Recovery	18:41	18:27	Recovery	Recovery	18:41	18:27	0.00	0.00
Sun	1842081	19:44	19:22	Recovery	Recovery	19:44	19:22	Recovery	Recovery	19:44	19:22	0.00	0.00
Mon	1842081	19:10	18:41	Recovery	Recovery	19:10	18:41	Recovery	Recovery	19:10	18:41	0.00	178.0
Tue	1842081	18:20	18:01	Recovery	Recovery	18:20	18:01	Recovery	Recovery	18:20	18:01	0.00	136.0
Wed	1842081	19:00	18:45	Recovery	Recovery	19:00	18:45	Recovery	Recovery	19:00	18:45	0.00	171.4
Thu	1842081	19:11	18:40	Recovery	Recovery	19:11	18:40	Recovery	Recovery	19:11	18:40	0.00	186.0
Fri	1842081	18:41	18:40	Recovery	Recovery	18:41	18:40	Recovery	Recovery	18:41	18:40	0.00	186.7
Total						18:41	18:40			18:41	18:40	0.00	1588.0
Vehicle	Day	First Ignition On	Last Ignition Off	Start Location	Last Location	Start Time	End Time	Start Location	End Location	Start Time	End Time	Mileage	Mileage
Sat	1842081	18:25	18:14	Recovery	Recovery	18:25	18:14	Recovery	Recovery	18:25	18:14	0.00	182.1
Sun	1842081	18:14	18:11	Recovery	Recovery	18:14	18:11	Recovery	Recovery	18:14	18:11	0.00	81.8
Mon	1842081	19:10	18:41	Recovery	Recovery	19:10	18:41	Recovery	Recovery	19:10	18:41	0.00	121.7
Tue	1842081	18:41	18:01	Recovery	Recovery	18:41	18:01	Recovery	Recovery	18:41	18:01	0.00	162.0
Wed	1842081	19:00	18:45	Recovery	Recovery	19:00	18:45	Recovery	Recovery	19:00	18:45	0.00	167.1
Thu	1842081	19:11	18:40	Recovery	Recovery	19:11	18:40	Recovery	Recovery	19:11	18:40	0.00	186.0
Fri	1842081	18:41	18:40	Recovery	Recovery	18:41	18:40	Recovery	Recovery	18:41	18:40	0.00	186.7
Total						18:41	18:40			18:41	18:40	0.00	788.8

The report clearly lays out each vehicle; on the left hand side are the days and dates of the report.

At the top is the vehicle registration (or date if grouped by day) and description.

Vehicle

Vehicle												
Vehicle: CX10-5EE		Mercedes Atego										
Day	Date	First Ignition On	Start location	Last Ignition Off	End Location	Shift Time	Arrival at first location	First location	Departure from last location	Last location	Shift Time	Mileage
								Market Street		Market Street		

Day

Date: Sat 11 April 2010												
Registration Number	Description	First Ignition On	Start location	Last Ignition Off	End Location	Shift Time	Arrival at first location	First location	Departure from last location	Last location	Shift Time	Mileage

Registration / Day	Depending on the filter applied, this will either be the vehicle registration or the day of the week.
Description / Date	Depending on the filter applied, this will either be the description of the vehicle or the date.
First Ignition On	Time that the first ignition-on was recorded.
Start Location	Address (or customised location) of the first ignition-on.
Last Ignition Off	Time that the last ignition-off was recorded.
End Location	Address (or customised location) of the last ignition-off.
Shift Time	The total time between the first ignition-on and the last ignition-off.
Arrival at First Location	Arrival time at the first location.
First Location	Address (or customised location) of the first arrival.
Departure from Last Location	Departure time of the last trip.
Last Location	Address (or customised location) of the ignition-on for the last trip.
Shift Time	The total time between the arrival at the first location and the departure from the last location.
Mileage	The total mileage, either for the date or the vehicle, depending on the "group by" setting.

Status reporting is a feature that results from Quartix's ability to connect the blue and brown wires of the Quartix vehicle tracker to ancillary inputs or to temperature monitoring sensors.

The report gives the user trip information that the vehicle has logged on the day, along with the status information showing when it was turned on and off, or the temperature readings for each trip.



The screen shots show some of the temperature reports that have been set up along with other status reports that have been set up to report on different functions of the vehicle.

The status reports can be set up for any feature on a vehicle that has a voltage change. The voltage change must be constant while the operation is in progress. Examples of typical connections are:

- Sweepers
- Doors
- Gritters
- Blue Lights
- Cutters or Mowers
- Sirens
- Bin lifts
- Panic buttons

The Quartix unit is able to detect a voltage change on the blue or brown wires that goes from 0 to 12/24 volts or 12/24 volts down to zero.

If, however, Driver ID is being used, then the brown wire cannot be used to pick up a status change. It can be set up to report temperature and Driver ID information.

When detecting the voltage change, the change must be constant. For example, when the sweepers are off, the voltage is zero, and when the sweepers are on, the voltage changes to 12 volts and stays at this level for the whole time that the sweepers are active.

When Quartix sets up the status report, it will be named based on the operation on which the unit is reporting, such as Sweeping Report or Tail Lift report, as shown in the screen shot. Once the report is set up on the system, it will show on the "Trip Reporting" menu list. After you have clicked on the relevant link you will be taken to the standard Quartix selection menu.



The report can only be generated for a single vehicle, but the search screen allows the user to narrow their search by selecting a group, then selecting the vehicle registration.

Once they have selected the vehicle they wish to view, the user must enter the date. This can either be done by clicking on the "Yesterday" or "Today" buttons or the calendar control icon to select a more historical date.



Clicking on "OK" generates the report.

As with other areas of the Quartix application, 12 months worth of data is stored on the system and older data is archived for easily retrieval.



The report is in generally the same style as the Daily Vehicle Log, but with additional information displayed. In the top right hand corner there are the standard menu controls, including the "Print" and "Export" options.



In the top left hand corner of the report is the header, which confirms the report that has been run and also the registration of the vehicle for which has been run.

There are also date controls that allow the user to navigate backwards and forwards, to see trip and status information for a particular day.

On the right hand side of the report, there is a "Notes" section that provides key information about the report.

The majority of the information is the same as what is displayed for the Daily Vehicle Log. The key additional information explains the green shaded areas on the report.

Notes

1. Asterisk (*) after departure time indicates previous day/shift.
2. New trip threshold 250 metres.
3. Stops with ignition on are displayed.
4. Travel time excludes idling, average speed calculation includes idling.
5. Green shaded blocks indicate activity is in progress.

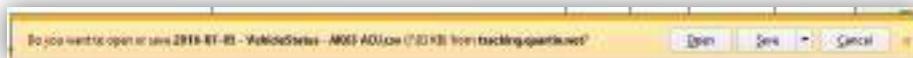
The new trip threshold and whether stops with ignition on are displayed can be changed by your administrator or Quartix Technical Support.

Values outside of the range of 0-0 are highlighted

As with many other Quartix reports, the Status Report can be exported into Microsoft Excel, where the user can reformat the data as required.

To export the Status Report, the user must click on the "Export" option on the main menu controls.

Once they have, there will be a pop-up message at the bottom of their browser window, prompting them either open the report, save it, or cancel the export.



When it is first exported, there is no formatting on the report, so it must be formatted for readability.

There are rows on the spreadsheet that contain no trip information, but do show a status on/off time. This is where the unit has detected a status change outside of a trip.

For the rows with multiple on/off status changes, this happens when the unit has detected multiple status changes on that specific trip.

1	Trip	Departure Time	Origin	Arrival Time	Arrive	Speed Time	Mileage (Miles)	Average Speed (mph)	Max Speed (mph)	Status On
2	1.1	06:50	Apex Road, Brampton, ON	06:57	06:54	00:00	0.0	0.0	0.0	06:50 - 07:25
3	1.2	07:00	Apex Rd, W18 7DP, WALSLEY	07:03	07:03	00:00	0.0	0.0	0.0	
4	2									
5	1.1	07:26	WALSLEY	07:27	07:26	00:01				
6	1.2	07:33	WALSLEY	07:37	07:34	00:04				
7	1.3									00:00
8	1.4	08:06	Beth Street, WILDERHALL, West Midlands, WV103E	08:16	08:07	00:09	4.7	8.5	27.5	08:06
9	1.1	08:17	WALSLEY, WILDERHALL, West Midlands, WV103E	08:20	08:20	00:03				08:18
10	1.1	08:31	Bishop Street, WILDERHALL, West Midlands, WV103E	08:38	08:30	00:08				08:22 08:32 - 08:38 08:37 - 08:50 08:58
11	1.2	08:39	Priest Road, WILDERHALL, West Midlands, WV103E	08:40	08:40	00:01				08:28 08:38 - 08:40 08:40 - 08:41 08:41 - 08:42 08:42 - 08:43 08:43 - 08:44 08:44 - 08:45 08:45 - 08:46 08:46 - 08:47 08:47 - 08:48 08:48 - 08:49 08:49 - 08:50 08:50 - 08:51 08:51 - 08:52 08:52 - 08:53 08:53 - 08:54 08:54 - 08:55 08:55 - 08:56 08:56 - 08:57 08:57 - 08:58 08:58 - 08:59 08:59 - 09:00 09:00 - 09:01 09:01 - 09:02 09:02 - 09:03 09:03 - 09:04 09:04 - 09:05 09:05 - 09:06 09:06 - 09:07 09:07 - 09:08 09:08 - 09:09 09:09 - 09:10 09:10 - 09:11 09:11 - 09:12 09:12 - 09:13 09:13 - 09:14 09:14 - 09:15 09:15 - 09:16 09:16 - 09:17 09:17 - 09:18 09:18 - 09:19 09:19 - 09:20 09:20 - 09:21 09:21 - 09:22 09:22 - 09:23 09:23 - 09:24 09:24 - 09:25 09:25 - 09:26 09:26 - 09:27 09:27 - 09:28 09:28 - 09:29 09:29 - 09:30 09:30 - 09:31 09:31 - 09:32 09:32 - 09:33 09:33 - 09:34 09:34 - 09:35 09:35 - 09:36 09:36 - 09:37 09:37 - 09:38 09:38 - 09:39 09:39 - 09:40 09:40 - 09:41 09:41 - 09:42 09:42 - 09:43 09:43 - 09:44 09:44 - 09:45 09:45 - 09:46 09:46 - 09:47 09:47 - 09:48 09:48 - 09:49 09:49 - 09:50 09:50 - 09:51 09:51 - 09:52 09:52 - 09:53 09:53 - 09:54 09:54 - 09:55 09:55 - 09:56 09:56 - 09:57 09:57 - 09:58 09:58 - 09:59 09:59 - 10:00 10:00 - 10:01 10:01 - 10:02 10:02 - 10:03 10:03 - 10:04 10:04 - 10:05 10:05 - 10:06 10:06 - 10:07 10:07 - 10:08 10:08 - 10:09 10:09 - 10:10 10:10 - 10:11 10:11 - 10:12 10:12 - 10:13 10:13 - 10:14 10:14 - 10:15 10:15 - 10:16 10:16 - 10:17 10:17 - 10:18 10:18 - 10:19 10:19 - 10:20 10:20 - 10:21 10:21 - 10:22 10:22 - 10:23 10:23 - 10:24 10:24 - 10:25 10:25 - 10:26 10:26 - 10:27 10:27 - 10:28 10:28 - 10:29 10:29 - 10:30 10:30 - 10:31 10:31 - 10:32 10:32 - 10:33 10:33 - 10:34 10:34 - 10:35 10:35 - 10:36 10:36 - 10:37 10:37 - 10:38 10:38 - 10:39 10:39 - 10:40 10:40 - 10:41 10:41 - 10:42 10:42 - 10:43 10:43 - 10:44 10:44 - 10:45 10:45 - 10:46 10:46 - 10:47 10:47 - 10:48 10:48 - 10:49 10:49 - 10:50 10:50 - 10:51 10:51 - 10:52 10:52 - 10:53 10:53 - 10:54 10:54 - 10:55 10:55 - 10:56 10:56 - 10:57 10:57 - 10:58 10:58 - 10:59 10:59 - 11:00 11:00 - 11:01 11:01 - 11:02 11:02 - 11:03 11:03 - 11:04 11:04 - 11:05 11:05 - 11:06 11:06 - 11:07 11:07 - 11:08 11:08 - 11:09 11:09 - 11:10 11:10 - 11:11 11:11 - 11:12 11:12 - 11:13 11:13 - 11:14 11:14 - 11:15 11:15 - 11:16 11:16 - 11:17 11:17 - 11:18 11:18 - 11:19 11:19 - 11:20 11:20 - 11:21 11:21 - 11:22 11:22 - 11:23 11:23 - 11:24 11:24 - 11:25 11:25 - 11:26 11:26 - 11:27 11:27 - 11:28 11:28 - 11:29 11:29 - 11:30 11:30 - 11:31 11:31 - 11:32 11:32 - 11:33 11:33 - 11:34 11:34 - 11:35 11:35 - 11:36 11:36 - 11:37 11:37 - 11:38 11:38 - 11:39 11:39 - 11:40 11:40 - 11:41 11:41 - 11:42 11:42 - 11:43 11:43 - 11:44 11:44 - 11:45 11:45 - 11:46 11:46 - 11:47 11:47 - 11:48 11:48 - 11:49 11:49 - 11:50 11:50 - 11:51 11:51 - 11:52 11:52 - 11:53 11:53 - 11:54 11:54 - 11:55 11:55 - 11:56 11:56 - 11:57 11:57 - 11:58 11:58 - 11:59 11:59 - 12:00 12:00 - 12:01 12:01 - 12:02 12:02 - 12:03 12:03 - 12:04 12:04 - 12:05 12:05 - 12:06 12:06 - 12:07 12:07 - 12:08 12:08 - 12:09 12:09 - 12:10 12:10 - 12:11 12:11 - 12:12 12:12 - 12:13 12:13 - 12:14 12:14 - 12:15 12:15 - 12:16 12:16 - 12:17 12:17 - 12:18 12:18 - 12:19 12:19 - 12:20 12:20 - 12:21 12:21 - 12:22 12:22 - 12:23 12:23 - 12:24 12:24 - 12:25 12:25 - 12:26 12:26 - 12:27 12:27 - 12:28 12:28 - 12:29 12:29 - 12:30 12:30 - 12:31 12:31 - 12:32 12:32 - 12:33 12:33 - 12:34 12:34 - 12:35 12:35 - 12:36 12:36 - 12:37 12:37 - 12:38 12:38 - 12:39 12:39 - 12:40 12:40 - 12:41 12:41 - 12:42 12:42 - 12:43 12:43 - 12:44 12:44 - 12:45 12:45 - 12:46 12:46 - 12:47 12:47 - 12:48 12:48 - 12:49 12:49 - 12:50 12:50 - 12:51 12:51 - 12:52 12:52 - 12:53 12:53 - 12:54 12:54 - 12:55 12:55 - 12:56 12:56 - 12:57 12:57 - 12:58 12:58 - 12:59 12:59 - 13:00 13:00 - 13:01 13:01 - 13:02 13:02 - 13:03 13:03 - 13:04 13:04 - 13:05 13:05 - 13:06 13:06 - 13:07 13:07 - 13:08 13:08 - 13:09 13:09 - 13:10 13:10 - 13:11 13:11 - 13:12 13:12 - 13:13 13:13 - 13:14 13:14 - 13:15 13:15 - 13:16 13:16 - 13:17 13:17 - 13:18 13:18 - 13:19 13:19 - 13:20 13:20 - 13:21 13:21 - 13:22 13:22 - 13:23 13:23 - 13:24 13:24 - 13:25 13:25 - 13:26 13:26 - 13:27 13:27 - 13:28 13:28 - 13:29 13:29 - 13:30 13:30 - 13:31 13:31 - 13:32 13:32 - 13:33 13:33 - 13:34 13:34 - 13:35 13:35 - 13:36 13:36 - 13:37 13:37 - 13:38 13:38 - 13:39 13:39 - 13:40 13:40 - 13:41 13:41 - 13:42 13:42 - 13:43 13:43 - 13:44 13:44 - 13:45 13:45 - 13:46 13:46 - 13:47 13:47 - 13:48 13:48 - 13:49 13:49 - 13:50 13:50 - 13:51 13:51 - 13:52 13:52 - 13:53 13:53 - 13:54 13:54 - 13:55 13:55 - 13:56 13:56 - 13:57 13:57 - 13:58 13:58 - 13:59 13:59 - 14:00 14:00 - 14:01 14:01 - 14:02 14:02 - 14:03 14:03 - 14:04 14:04 - 14:05 14:05 - 14:06 14:06 - 14:07 14:07 - 14:08 14:08 - 14:09 14:09 - 14:10 14:10 - 14:11 14:11 - 14:12 14:12 - 14:13 14:13 - 14:14 14:14 - 14:15 14:15 - 14:16 14:16 - 14:17 14:17 - 14:18 14:18 - 14:19 14:19 - 14:20 14:20 - 14:21 14:21 - 14:22 14:22 - 14:23 14:23 - 14:24 14:24 - 14:25 14:25 - 14:26 14:26 - 14:27 14:27 - 14:28 14:28 - 14:29 14:29 - 14:30 14:30 - 14:31 14:31 - 14:32 14:32 - 14:33 14:33 - 14:34 14:34 - 14:35 14:35 - 14:36 14:36 - 14:37 14:37 - 14:38 14:38 - 14:39 14:39 - 14:40 14:40 - 14:41 14:41 - 14:42 14:42 - 14:43 14:43 - 14:44 14:44 - 14:45 14:45 - 14:46 14:46 - 14:47 14:47 - 14:48 14:48 - 14:49 14:49 - 14:50 14:50 - 14:51 14:51 - 14:52 14:52 - 14:53 14:53 - 14:54 14:54 - 14:55 14:55 - 14:56 14:56 - 14:57 14:57 - 14:58 14:58 - 14:59 14:59 - 15:00 15:00 - 15:01 15:01 - 15:02 15:02 - 15:03 15:03 - 15:04 15:04 - 15:05 15:05 - 15:06 15:06 - 15:07 15:07 - 15:08 15:08 - 15:09 15:09 - 15:10 15:10 - 15:11 15:11 - 15:12 15:12 - 15:13 15:13 - 15:14 15:14 - 15:15 15:15 - 15:16 15:16 - 15:17 15:17 - 15:18 15:18 - 15:19 15:19 - 15:20 15:20 - 15:21 15:21 - 15:22 15:22 - 15:23 15:23 - 15:24 15:24 - 15:25 15:25 - 15:26 15:26 - 15:27 15:27 - 15:28 15:28 - 15:29 15:29 - 15:30 15:30 - 15:31 15:31 - 15:32 15:32 - 15:33 15:33 - 15:34 15:34 - 15:35 15:35 - 15:36 15:36 - 15:37 15:37 - 15:38 15:38 - 15:39 15:39 - 15:40 15:40 - 15:41 15:41 - 15:42 15:42 - 15:43 15:43 - 15:44 15:44 - 15:45 15:45 - 15:46 15:46 - 15:47 15:47 - 15:48 15:48 - 15:49 15:49 - 15:50 15:50 - 15:51 15:51 - 15:52 15:52 - 15:53 15:53 - 15:54 15:54 - 15:55 15:55 - 15:56 15:56 - 15:57 15:57 - 15:58 15:58 - 15:59 15:59 - 16:00 16:00 - 16:01 16:01 - 16:02 16:02 - 16:03 16:03 - 16:04 16:04 - 16:05 16:05 - 16:06 16:06 - 16:07 16:07 - 16:08 16:08 - 16:09 16:09 - 16:10 16:10 - 16:11 16:11 - 16:12 16:12 - 16:13 16:13 - 16:14 16:14 - 16:15 16:15 - 16:16 16:16 - 16:17 16:17 - 16:18 16:18 - 16:19 16:19 - 16:20 16:20 - 16:21 16:21 - 16:22 16:22 - 16:23 16:23 - 16:24 16:24 - 16:25 16:25 - 16:26 16:26 - 16:27 16:27 - 16:28 16:28 - 16:29 16:29 - 16:30 16:30 - 16:31 16:31 - 16:32 16:32 - 16:33 16:33 - 16:34 16:34 - 16:35 16:35 - 16:36 16:36 - 16:37 16:37 - 16:38 16:38 - 16:39 16:39 - 16:40 16:40 - 16:41 16:41 - 16:42 16:42 - 16:43 16:43 - 16:44 16:44 - 16:45 16:45 - 16:46 16:46 - 16:47 16:47 - 16:48 16:48 - 16:49 16:49 - 16:50 16:50 - 16:51 16:51 - 16:52 16:52 - 16:53 16:53 - 16:54 16:54 - 16:55 16:55 - 16:56 16:56 - 16:57 16:57 - 16:58 16:58 - 16:59 16:59 - 17:00 17:00 - 17:01 17:01 - 17:02 17:02 - 17:03 17:03 - 17:04 17:04 - 17:05 17:05 - 17:06 17:06 - 17:07 17:07 - 17:08 17:08 - 17:09 17:09 - 17:10 17:10 - 17:11 17:11 - 17:12 17:12 - 17:13 17:13 - 17:14 17:14 - 17:15 17:15 - 17:16 17:16 - 17:17 17:17 - 17:18 17:18 - 17:19 17:19 - 17:20 17:20 - 17:21 17:21 - 17:22 17:22 - 17:23 17:23 - 17:24 17:24 - 17:25 17:25 - 17:26 17:26 - 17:27 17:27 - 17:28 17:28 - 17:29 17:29 - 17:30 17:30 - 17:31 17:31 - 17:32 17:32 - 17:33 17:33 - 17:34 17:34 - 17:35 17:35 - 17:36 17:36 - 17:37 17:37 - 17:38 17:38 - 17:39 17:39 - 17:40 17:40 - 17:41 17:41 - 17:42 17:42 - 17:43 17:43 - 17:44 17:44 - 17:45 17:45 - 17:46 17:46 - 17:47 17:47 - 17:48 17:48 - 17:49 17:49 - 17:50 17:50 - 17:51 17:51 - 17:52 17:52 - 17:53 17:53 - 17:54 17:54 - 17:55 17:55 - 17:56 17:56 - 17:57 17:57 - 17:58 17:58 - 17:59 17:59 - 18:00 18:00 - 18:01 18:01 - 18:02 18:02 - 18:03 18:03 - 18:04 18:04 - 18:05 18:05 - 18:06 18:06 - 18:07 18:07 - 18:08 18:08 - 18:09 18:09 - 18:10 18:10 - 18:11 18:11 - 18:12 18:12 - 18:13 18:13 - 18:14 18:14 - 18:15 18:15 - 18:16 18:16 - 18:17 18:17 - 18:18 18:18 - 18:19 18:19 - 18:20 18:20 - 18:21 18:21 - 18:22 18:22 - 18:23 18:23 - 18:24 18:24 - 18:25 18:25 - 18:26 18:26 - 18:27 18:27 - 18:28 18:28 - 18:29 18:29 - 18:30 18:30 - 18:31 18:31 - 18:32 18:32 - 18:33 18:33 - 18:34 18:34 - 18:35 18:35 - 18:36 18:36 - 18:37 18:37 - 18:38 18:38 - 18:39 18:39 - 18:40 18:40 - 18:41 18:41 - 18:42 18:42 - 18:43 18:43 - 18:44 18:44 - 18:45 18:45 - 18:46 18:46 - 18:47 18:47 - 18:48 18:48 - 18:49 18:49 - 18:50 18:50 - 18:51 18:51 - 18:52 18:52 - 18:53 18:53 - 18:54 18:54 - 18:55 18:55 - 18:56 18:56 - 18:57 18:57 - 18:58 18:58 - 18:59 18:59 - 19:00 19:00 - 19:01 19:01 - 19:02 19:02 - 19:03 19:03 - 19:04 19:04 - 19:05 19:05 - 19:06 19:06 - 19:07 19:07 - 19:08 19:08 - 19:09 19:09 - 19:10 19:10 - 19:11 19:11 - 19:12 19:12 - 19:13 19:13 - 19:14 19:14 - 19:15 19:15 - 19:16 19:16 - 19:17 19:17 - 19:18 19:18 - 19:19 19:19 - 19:20 19:20 - 19:21 19:21 - 19:22 19:22 - 19:23 19:23 - 19:24 19:24 - 19:25 19:25 - 19:26 19:26 - 19:27 19:27 - 19:28 19:28 - 19:29 19:29 - 19:30 19:30 - 19:31 19:31 - 19:32 19:32 - 19:33 19:33 - 19:34 19:34 - 19:35 19:35 - 19:36 19:36 - 19:37 19:37 - 19:38 19:38 - 19:39 19:39 - 19:40 19:40 - 19:41 19:41 - 19:42 19:42 - 19:43 19:43 - 19:44 19:44 - 19:45 19:45 - 19:46 19:46 - 19:47 19:47 - 19:48 19:48 - 19:49 19:49 - 19:50 19:50 - 19:51 19:51 - 19:52 19:52 - 19:53 19:53 - 19:54 19:54 - 19:55 19:55 - 19:56 19:56 - 19:57 19:57 - 19:58 19:58 - 19:59 19:59 - 20:00 20:00 - 20:01 20:01 - 20:02 20:02 - 20:03 20:03 - 20:04 20:04 - 20:05 20:05 - 20:06 20:06 - 20:07 20:07 - 20:08 20:08 - 20:09 20:09 - 20:10 20:10 - 20:11 20:11 - 20:12 20:12 - 20:13 20:13 - 20:14 20:14 - 20:15 20:15 - 20:16 20:16 - 20:17 20:17 - 20:18 20:18 - 20:19 20:19 - 20:20 20:20 - 20:21 20:21 - 20:22 20:22 - 20:23 20:23 - 20:24 20:24 - 20:25 20:25 - 20:26 20:26 - 20:27 20:27 - 20:28 20:28 - 20:29 20:29 - 20:30 20:30 - 20:31 20:31 - 20:32 20:32 - 20:33 20:33 - 20:34 20:34 - 20:35 20:35 - 20:36 20:36 - 20:37 20:37 - 20:38 20:38 - 20:39 20:39 - 20:40 20:40 - 20:41 20:41 - 20:42 20:42 - 20:43 20:43 - 20:44 20:44 - 20:45 20:45 - 20:46 20:46 - 20:47 20:47 - 20:48 20:48 - 20:49 20:49 - 20:50 20:50 - 20:51 20:51 - 20:52 20:52 - 20:53 20:53 - 20:54 20:54 - 20:55 20:55 - 20:56 20:56 - 20:57 20:57 - 20:58 20:58 - 20:59 20:59 - 21:00 21:00 - 21:01 21:01 - 21:02 21:02 - 21:03 21:03 - 21:04 21:04 - 21:05 21:05 - 21:06 21:06 - 21:07 21:07 - 21:08 21:08 - 21:09 21:09 - 21:10 21:10 - 21:11 21:11 - 21:12 21:12 - 21:13 21:13 - 21:14 21:14 - 21:15 21:15 - 21:16 21:16 - 21:17 21:17 - 21:18 21:18 - 21:19 21:19 - 21:20 21:20 - 21:21 21:21 - 21:22 21:22 - 21:23 21:23 - 21:24 21:24 - 21:25 21:25 - 21:26 21:26 - 21:27 21:27 - 21:28 21:28 - 21:29 21:29 - 21:30 21:30 - 21:31 21:31 - 21:32 21:32 - 21:33 21:33 - 21:34 21:34 - 21:35 21:35 - 21:36 21:36 - 21:37 21:37 - 21:38 21:38 - 21:39 21:39 - 21:40 21:40 - 21:41 21:41 - 21:42 21:42 - 21:43 21:43 - 21:44 21:44 - 21:45 21:45 - 21:46 21:46 - 21:47 21:47 - 21:48 21:48 - 21:49 21:49 - 21:50 21:50 - 21:51 21:51 - 21:52 21:52 - 21:53 21:53 - 21:54 21:54 - 21:55 21:55 - 21:56 21:56 - 21:57 21:57 - 21:58 21:58 - 21:59 21:59 - 22:0

Temperature Reporting provides the customer with a report on fridge temperatures and/or load compartment temperatures. The report shows the temperature that was recorded at a stop or ignition-off event, plus the maximum and minimum temperatures recorded during a trip.

When Quartix sets up the status report, the name of the report will reflect the operation on which the unit is reporting, such as Fridge Temperature Report or Load Compartment Temperature Report, as shown in the screen shot.



Status Report

Once the report is set up on the system, it will show under the Trip Reporting menu list. After the user clicks on the relevant link, they will be taken to the standard Quartix report selection page.

The report can only be generated for a single vehicle, but the selection page allows the user to narrow their search down by selecting a group, then selecting the vehicle registration. Once they have selected the vehicle they wish to view, the user must enter the date. This can either be done by clicking on the "Yesterday" or "Today" buttons or clicking on the calendar control icon to select a more historical date. Clicking on the "OK" button will generate the report.

As with other areas of the Quartix application, 12 months worth of data is stored on the system and older data is archived for easily retrieval.



Once the report has been generated, it is displayed in the same style as the Daily Vehicle Log, but with additional information. In the top right hand corner there are the standard menu controls, including the "Print" and "Export" options.

On the right hand side of the report, there is a "Notes" section that provides the user with key information about the report.

At the bottom, there is a footnote that shows the parameters for the temperature ranges. Anything outside this range will be highlighted in red, regardless of whether it is over or under the temperature range.

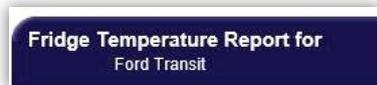


Notes

- Asterisk (*) after departure time indicates previous day/shift.
- New trip threshold 250 metres.
- Stops with ignition on are displayed.
- Travel time excludes idling, average speed calculation includes idling.
- Green shaded blocks indicate activity is in progress.

The new trip threshold and whether stops with ignition on are displayed can be changed by your administrator or Quartix Technical Support.

Values outside of the range of 2-8°C are highlighted



In the top left hand corner of the report, the user will see the name of the report and the vehicle for which has been produced.



Under this, there is the option to move through dates using the forward and backward arrows. This allows the user to scroll through the last 12 months worth of data, if necessary.

The nature of the Temperature Report means that it is available in both a tabular view and as a chart.



To access the chart, the user must click on the "chart" icon when in the tabular report (standard report).



To switch back to the tabular view, they must click on the "table" icon when in the "chart" view.

As the Temperature Report is based on the Daily Vehicle Log, the bulk of the information contained within is the same, including trip numbers, ignition on and off locations, travel time, distance, and more.

Temperature (°C)	Minimum	Maximum
4.2	0.2	8.2
0.8	-0.8	5.0
0.1	-0.1	-0.1
4.7	4.8	4.7
4.8	3.8	5.3

In addition to the standard trip information, the report also contains temperature information.

Temperatures are recorded at the vehicle's arrive event. This will either be a stop with the ignition on or an ignition-off event.

The report also displays the minimum and maximum temperature values for each section of the trip. If this is a simple "on" to "off" then there will just be one set of data. However, if the vehicle stops multiple times (sub-trips), the report will display the temperature information for all of those sub-trips.

If the temperatures recorded go outside the set range, those readings are displayed in bold and in red, as shown in the example below.

Trip	Depart	Arrive	Travel Time	Idling Time	Distance (miles)	Average Speed (mph)	Temperature (°C)	Minimum	Maximum
18:42	Wetherby Depot	18:43 Stopped with ignition ON at MWS Wetherby Depot	0:01				12.9	12.9	12.9
19:22	Wetherby Depot	19:33 Kix Drighite, WETHERBY, West Yorkshire, LS233GT	0:11	0:36	5.1	0.1	4.6	4.6	5.9

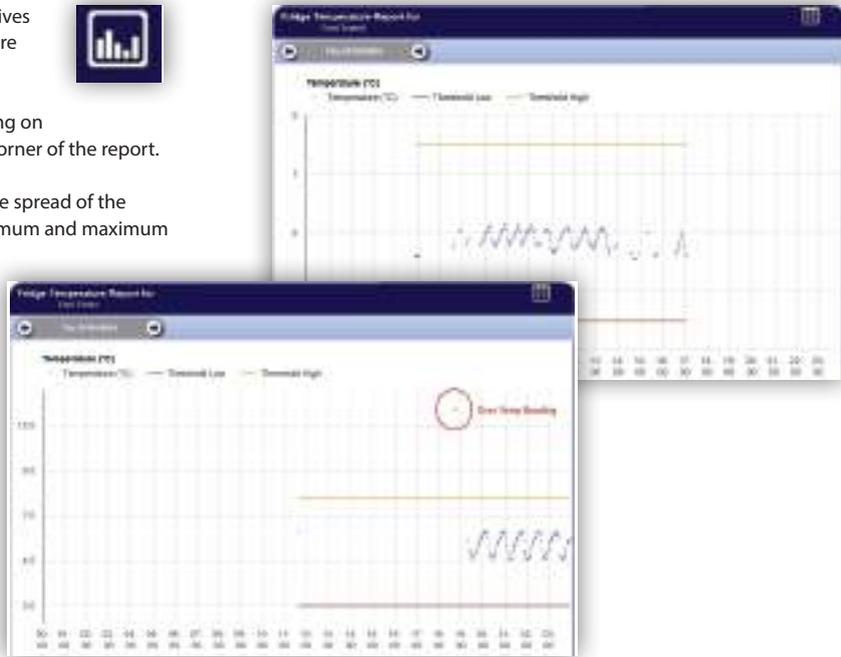
The chart view of the Temperature Report gives a graphical representation of the temperature changes that the unit has recorded.



It is accessed from the main report by clicking on the chart icon that is in the top right hand corner of the report.

In these two examples, its possible to see the spread of the temperatures recorded along with the minimum and maximum temperature thresholds.

Hover the mouse over the temperature dots and a small pop-up will appear showing the time the temperature reading was taken. These readings have been recorded for every data point that the unit has reported while the vehicle was moving.



It is possible to export both the tabular report and the chart data, so that they can be opened in Microsoft Excel.

This is done by clicking on the "Export" option from the main menu controls when either in the report or the chart.

This will export the data to the user's downloads folder in a CSV file. Both exported reports are given the same name, although they contain different data. Whichever report is exported first will need to be renamed before the second report is downloaded. The below message will be displayed when the user clicks on "Export."

You will see the message below when you have clicked on "Export"



No	Registration No	Report	Actual Temp	Alarm	Min Temp	Max Temp	Average Temp	Max Speed	Min Speed	Max Acc	Min Acc	Max Dec	Min Dec
11	SL 8924	Commercial location	2024	Commercial location	2022	2026	2.7	25.1	22.1	4.2	4.2	0.0	0.0
12	SL 8924	Commercial location	2024	Commercial location	2022	2026	4.2	25.1	22.1	4.2	4.2	0.0	0.0
13	SL 8924	Commercial location	2024	Commercial location	2022	2026	4.2	25.1	22.1	4.2	4.2	0.0	0.0
14	SL 8924	Commercial location	2024	Commercial location	2022	2026	1.2	22.7	22.8	4.2	4.2	0.0	0.0
15	SL 8924	Commercial location	2024	Commercial location	2022	2026	1	14.3	20	4.2	4.2	0.0	0.0
16	SL 8924	Commercial location	2024	Commercial location	2022	2026	5.7	14.2	24.1	4.2	4.2	0.0	0.0
17	SL 8924	Wholly Owned, Reserves, EXRIS, R1,2,3	2024	Commercial location	2022	2026	2.2	22.1	22.1	4.2	4.2	0.0	0.0
18	SL 8924	Commercial location	2024	Commercial location	2022	2026	2.2	22.1	22.1	4.2	4.2	0.0	0.0
19	SL 8924	Commercial location	2024	Commercial location	2022	2026	2.2	22.1	22.1	4.2	4.2	0.0	0.0
20	SL 8924	Commercial location	2024	Water Park City, Main Station, Booking Entry, EXRIS, EXRIS	2022	2026	4.2	14.2	24.1	4.2	4.2	0.0	0.0
21	SL 8924	Water Park City, Application Tracking EXRIS, EXRIS, EXRIS	2024	Commercial location	2022	2026	2.2	22.1	22.1	4.2	4.2	0.0	0.0

Date and Time	Temperature Reading
01/07/2016 02:57	17.5
01/07/2016 03:02	18.0
01/07/2016 03:02	18.5
01/07/2016 03:02	19.0
01/07/2016 03:02	19.5
01/07/2016 03:02	20.0
01/07/2016 03:02	20.5
01/07/2016 03:02	21.0
01/07/2016 03:02	21.5
01/07/2016 03:02	22.0
01/07/2016 03:02	22.5
01/07/2016 03:02	23.0
01/07/2016 03:02	23.5
01/07/2016 03:02	24.0
01/07/2016 03:02	24.5
01/07/2016 03:02	25.0
01/07/2016 03:02	25.5
01/07/2016 03:02	26.0
01/07/2016 03:02	26.5
01/07/2016 03:02	27.0
01/07/2016 03:02	27.5
01/07/2016 03:02	28.0
01/07/2016 03:02	28.5
01/07/2016 03:02	29.0
01/07/2016 03:02	29.5
01/07/2016 03:02	30.0
01/07/2016 03:02	30.5
01/07/2016 03:02	31.0
01/07/2016 03:02	31.5
01/07/2016 03:02	32.0
01/07/2016 03:02	32.5
01/07/2016 03:02	33.0
01/07/2016 03:02	33.5
01/07/2016 03:02	34.0
01/07/2016 03:02	34.5
01/07/2016 03:02	35.0
01/07/2016 03:02	35.5
01/07/2016 03:02	36.0
01/07/2016 03:02	36.5
01/07/2016 03:02	37.0
01/07/2016 03:02	37.5
01/07/2016 03:02	38.0
01/07/2016 03:02	38.5
01/07/2016 03:02	39.0
01/07/2016 03:02	39.5
01/07/2016 03:02	40.0
01/07/2016 03:02	40.5
01/07/2016 03:02	41.0
01/07/2016 03:02	41.5
01/07/2016 03:02	42.0
01/07/2016 03:02	42.5
01/07/2016 03:02	43.0
01/07/2016 03:02	43.5
01/07/2016 03:02	44.0
01/07/2016 03:02	44.5
01/07/2016 03:02	45.0
01/07/2016 03:02	45.5
01/07/2016 03:02	46.0
01/07/2016 03:02	46.5
01/07/2016 03:02	47.0
01/07/2016 03:02	47.5
01/07/2016 03:02	48.0
01/07/2016 03:02	48.5
01/07/2016 03:02	49.0
01/07/2016 03:02	49.5
01/07/2016 03:02	50.0
01/07/2016 03:02	50.5
01/07/2016 03:02	51.0
01/07/2016 03:02	51.5
01/07/2016 03:02	52.0
01/07/2016 03:02	52.5
01/07/2016 03:02	53.0
01/07/2016 03:02	53.5
01/07/2016 03:02	54.0
01/07/2016 03:02	54.5
01/07/2016 03:02	55.0
01/07/2016 03:02	55.5
01/07/2016 03:02	56.0
01/07/2016 03:02	56.5
01/07/2016 03:02	57.0
01/07/2016 03:02	57.5
01/07/2016 03:02	58.0
01/07/2016 03:02	58.5
01/07/2016 03:02	59.0
01/07/2016 03:02	59.5
01/07/2016 03:02	60.0
01/07/2016 03:02	60.5
01/07/2016 03:02	61.0
01/07/2016 03:02	61.5
01/07/2016 03:02	62.0
01/07/2016 03:02	62.5
01/07/2016 03:02	63.0
01/07/2016 03:02	63.5
01/07/2016 03:02	64.0
01/07/2016 03:02	64.5
01/07/2016 03:02	65.0
01/07/2016 03:02	65.5
01/07/2016 03:02	66.0
01/07/2016 03:02	66.5
01/07/2016 03:02	67.0
01/07/2016 03:02	67.5
01/07/2016 03:02	68.0
01/07/2016 03:02	68.5
01/07/2016 03:02	69.0
01/07/2016 03:02	69.5
01/07/2016 03:02	70.0
01/07/2016 03:02	70.5
01/07/2016 03:02	71.0
01/07/2016 03:02	71.5
01/07/2016 03:02	72.0
01/07/2016 03:02	72.5
01/07/2016 03:02	73.0
01/07/2016 03:02	73.5
01/07/2016 03:02	74.0
01/07/2016 03:02	74.5
01/07/2016 03:02	75.0
01/07/2016 03:02	75.5
01/07/2016 03:02	76.0
01/07/2016 03:02	76.5
01/07/2016 03:02	77.0
01/07/2016 03:02	77.5
01/07/2016 03:02	78.0
01/07/2016 03:02	78.5
01/07/2016 03:02	79.0
01/07/2016 03:02	79.5
01/07/2016 03:02	80.0
01/07/2016 03:02	80.5
01/07/2016 03:02	81.0
01/07/2016 03:02	81.5
01/07/2016 03:02	82.0
01/07/2016 03:02	82.5
01/07/2016 03:02	83.0
01/07/2016 03:02	83.5
01/07/2016 03:02	84.0
01/07/2016 03:02	84.5
01/07/2016 03:02	85.0
01/07/2016 03:02	85.5
01/07/2016 03:02	86.0
01/07/2016 03:02	86.5
01/07/2016 03:02	87.0
01/07/2016 03:02	87.5
01/07/2016 03:02	88.0
01/07/2016 03:02	88.5
01/07/2016 03:02	89.0
01/07/2016 03:02	89.5
01/07/2016 03:02	90.0
01/07/2016 03:02	90.5
01/07/2016 03:02	91.0
01/07/2016 03:02	91.5
01/07/2016 03:02	92.0
01/07/2016 03:02	92.5
01/07/2016 03:02	93.0
01/07/2016 03:02	93.5
01/07/2016 03:02	94.0
01/07/2016 03:02	94.5
01/07/2016 03:02	95.0
01/07/2016 03:02	95.5
01/07/2016 03:02	96.0
01/07/2016 03:02	96.5
01/07/2016 03:02	97.0
01/07/2016 03:02	97.5
01/07/2016 03:02	98.0
01/07/2016 03:02	98.5
01/07/2016 03:02	99.0
01/07/2016 03:02	99.5
01/07/2016 03:02	100.0

It is possible to print both the tabular report and the chart data so that it can be opened in Microsoft Excel.

This is done by clicking on the "Print" option from the main menu controls when either in the report or the chart.



Print

Total: 1 sheet of paper (2 pages)

Destination:

Pages: All

Copies:

Colour:

Options: Simplify page Two-sided

25072016 Fridge Temperature Report for NVS

25/07/2016 Fridge Temperature Report for NVS

BF63 YDD Font Trans

Frige Chart	Area	Temperature (°C)	Threshold Low	Threshold High	Minimum	Maximum
1 25-22 Team Chen, Joseph, GUY YI SCHWABER, Julia, PEI QI	25-22 Receptacle Vortex, M/S/2016, BFFY 01 SCHWABER, Julia, PEI QI	24.4	2.0	18.0	11.0	24.0
2 25-22 Receptacle Vortex, M/S/2016, BFFY 01 SCHWABER, Julia, PEI QI	25-22 Receptacle Vortex, M/S/2016, BFFY 01 SCHWABER, Julia, PEI QI	24.1	2.0	18.0	11.0	24.0
3 25-22 Receptacle Vortex, M/S/2016, BFFY 01 SCHWABER, Julia, PEI QI	25-22 Receptacle Vortex, M/S/2016, BFFY 01 SCHWABER, Julia, PEI QI	24.4	2.0	18.0	11.0	24.0
4 25-22 Receptacle Vortex, M/S/2016, BFFY 01 SCHWABER, Julia, PEI QI	25-22 Receptacle Vortex, M/S/2016, BFFY 01 SCHWABER, Julia, PEI QI	24.4	2.0	18.0	11.0	24.0
5 25-22 Receptacle Vortex, M/S/2016, BFFY 01 SCHWABER, Julia, PEI QI	25-22 Receptacle Vortex, M/S/2016, BFFY 01 SCHWABER, Julia, PEI QI	24.4	2.0	18.0	11.0	24.0
6 25-22 Receptacle Vortex, M/S/2016, BFFY 01 SCHWABER, Julia, PEI QI	25-22 Receptacle Vortex, M/S/2016, BFFY 01 SCHWABER, Julia, PEI QI	24.4	2.0	18.0	11.0	24.0
7 25-22 Receptacle Vortex, M/S/2016, BFFY 01 SCHWABER, Julia, PEI QI	25-22 Receptacle Vortex, M/S/2016, BFFY 01 SCHWABER, Julia, PEI QI	24.4	2.0	18.0	11.0	24.0
8 25-22 Receptacle Vortex, M/S/2016, BFFY 01 SCHWABER, Julia, PEI QI	25-22 Receptacle Vortex, M/S/2016, BFFY 01 SCHWABER, Julia, PEI QI	24.4	2.0	18.0	11.0	24.0

Print

Total: 1 sheet of paper

Destination:

Pages: All

Copies:

Colour:

Options: Simplify page

25072016 Fridge Temperature Report for NVS

25/07/2016 Fridge Temperature Report for NVS

BF63 YDD Font Trans

Thu 07/07/2016

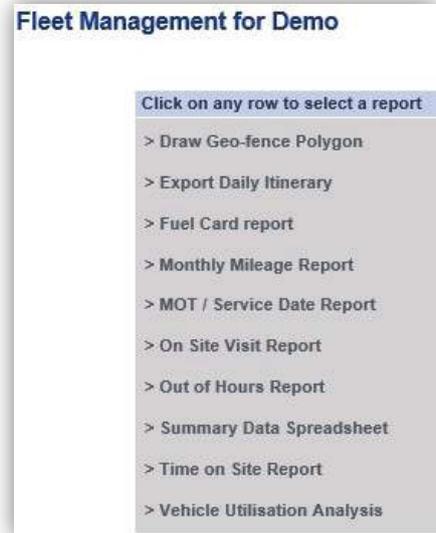
Temperature (°C)

Temperature (°C) Threshold Low Threshold High

Copyright 2016 Quartix Ltd. All Rights Reserved

The fleet management section of the Quartix application has a number of reports available that give the user the tools to manage their fleet effectively and to produce key reports that will aid their overall fleet management.

The "Draw Geo-fence Polygon" tool is also available under the Configuration section.

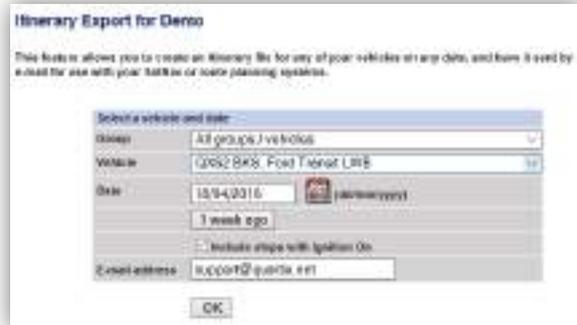


Export Daily Itinerary	Allows the user to create an itinerary file for any of their vehicles on any date and have it sent by e-mail, to be used with satellite navigation.
Fuel Card Report	Report showing fuel card usage.
Monthly Mileage Report	Monthly report giving mileage information.
MOT/Service Date Report	Report showing key vehicle management information.
On Site Visit Report	Report showing average home arrival and departure times.
Out of Hours Report	Report showing mileage outside defined hours.
Summary Data Spreadsheet	Shows all stop and start times for selected vehicles and date range.
Time on Site Report	Report showing time spent at selected locations with ignition off or stopped with ignition on.
Vehicle Utilisation Analysis	Utilisation by vehicle or driver over selected time period.

The Export Daily Itinerary feature allows the user to export a day's worth of trips for a specific vehicle that can then be imported to a satellite navigation device or route planning software such as AutoRoute. This is useful if the customer has an agency driver who is covering a route that has been travelled previously.

Clicking on "Export Daily Itinerary" from the "Fleet Management" section of the website pulls up a selection screen so that the user can narrow their search. There is the option of selecting a specific group first and then filtering on a vehicle. The user can also select a vehicle from the drop down list.

Once the user has selected a vehicle, they need to enter a date. Clicking on "1 week ago" automatically puts in the relevant date, but the user can also click on the calendar controls and select a date from there. They can choose to "include stops with ignition on." They then enter the e-mail address where the report will be sent and click on "OK".



Clicking on "OK" will bring up a screen at the top under the Quartix logo with some instructions.

To export the itinerary, do the following:

1. Uncheck any visits you do not want to include in the exported itinerary
 2. Change location names if necessary
 3. Select the required format using the option buttons
 4. Enter or edit the e-mail address and Filename, then click on OK.
- You should receive an e-mail containing the itinerary file within a few minutes.

- Tom Tom Itinerary format
- Autoroute format
- Tab-separated text file

The user will need to decide on the file format into which they wish to export the data. This will depend on what programme they plan to use to view the data.

Include?
<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>

They can also choose to include locations or remove them. This would be useful if the day the user exported is the closest to what they need, but removing locations would help narrow down their search.

The user then needs to confirm the e-mail address that they are sending the exported file to, and what the file will be named. Clicking on OK generates the file.

Email:

Filename:

Location?	Location name	Time	Longitude (WGS84)	Latitude (WGS84)	OS Grid Ref X	OS Grid Ref Y
<input type="checkbox"/>	Harshated Moor (E)	05:50	-1.344604	53.734616	416950	424308
<input type="checkbox"/>	Woolley Edge (N) - M6	06:30	-1.349602	53.621980	429870	414632
<input type="checkbox"/>	Woodall (N) - W5	07:25	-1.201820	53.336357	447290	330177
<input type="checkbox"/>	Blyth - M6	07:55	-1.850492	53.387437	402504	336250
<input type="checkbox"/>	Doncaster - M6	08:27	-0.891659	53.581831	468837	411606
<input type="checkbox"/>	Ferrybridge - M6	09:02	-1.201738	53.687480	448451	422567
<input type="checkbox"/>	Jin Wan Court @ Sandale Road, GASTLEFORD, West York	09:27	-1.370740	53.729318	481128	425814
<input type="checkbox"/>	Castellon Rocking	09:46	-1.338694	53.735330	460951	424499
<input type="checkbox"/>	Seacroft Avenue, LEEDS, LS16 6UD	12:54	-1.409436	53.621944	426603	430321
<input type="checkbox"/>	Bliss - HOME	14:20	-1.516704	53.854688	431308	430806

Once the user receives the e-mail, there will be instructions within that advise what to do next.

Quartix

Itinerary File Export - TomTom format
Your Itinerary file QX62 BKS Mon_18_4_16.itn is attached to this e-mail.

Instructions for using the itinerary with your TomTom satellite navigation system:

1. Connect your TomTom to the USB port on your PC, as instructed in the TomTom documentation. It should appear as an 'external device', usually identified by the drive letter E:
2. Save the attachment to this e-mail on to the 'itn' directory on the TomTom.
3. Disconnect the TomTom from your PC in accordance with the manufacturer's instructions.
4. When using the TomTom in your vehicle, touch the screen to display the menu, press the blue arrow until the 'itinerary planning' option appears, and select that.
5. Select Options followed by Load Itinerary. The itinerary you have just transferred should show in the list. Select the Itinerary, and the list of stops will appear.
6. Select Options and Start Navigation. The TomTom will guide you to the first destination.
7. After each stop has been visited, select Itinerary Planning again and the list will be displayed, with the stops you have already visited shown in grey. Select Close, and the TomTom will ask if you want to navigate to the next destination. Select Yes, and the route will be planned. Once the route planning is complete, the TomTom will guide you to the next destination.

The attached file is based on data taken from the Quartix system, and has been designed to operate with TomTom, based on the best information available to us at the time of writing. Quartix cannot be held liable for any errors in the data, nor any failure of this data to operate with third party hardware or software.

Quartix

Itinerary File Export - Text format
Your Itinerary file QX62 BKS Mon_18_4_16.txt is attached to this e-mail.

Instructions for using the text itinerary file:

The attached file is a text file containing all the data fields shown in the itinerary request screen. The first record contains the field names, separated by the Tab character, and each subsequent record contains the data for one stop on the itinerary. The fields in the file are: Location Name, Time, Longitude, Latitude, OS Grid Ref X, OS Grid Ref Y. This type of file can easily be imported into Excel and other popular products.

The attached file is based on data taken from the Quartix system, and has been designed to operate with your software product, based on the best information available to us at the time of writing. Quartix cannot be held liable for any errors in the data, nor any failure of this data to operate with third party hardware or software.

Quartix

Itinerary File Export - AutoRoute format
Your Itinerary file QX62 BKS Mon_18_4_16.txt is attached to this e-mail.

Instructions for using the itinerary with AutoRoute:

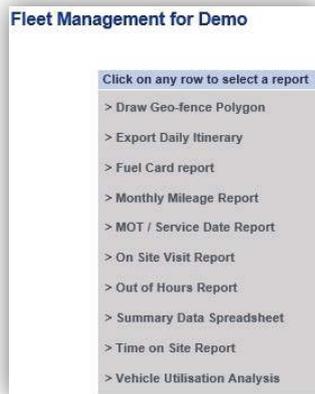
1. Save the attachment on your PC.
2. Within AutoRoute, select 'Data/Import Data Wizard'. Ensure that 'Files of Type' at the bottom of the dialogue box is set to 'Text files'. Locate and select the file you have just saved and click on 'Open'.
3. When the Import Data Wizard lists the contents of the file, check that Semicolon is selected as the field separator, and if not select it. Click on 'Next'.
4. Select the 'First Row contains column headings' checkbox, and click on 'Finish'.
5. The data points in the file should have been imported to AutoRoute as a set of 'Pushpins', with the same name as the file. Right click on the pushpins on the panel to the left of the screen, and select 'Add pushpins as stops'. This will add the list of stops from the itinerary file to the planned route.
6. Select 'Route/Route Planner' from the top menu, and the stops you have imported should appear in the route planner window. You can then use the 'Optimise Stops' button to optimise the order in which the stops should be visited, and the 'Get Directions' button at the top to show the route on the map.

NOTE: AutoRoute will decide on it's own order for the stops when they are added to the route planner. If your itinerary includes specific start and/or end locations, you will need to move them to the start or end using the route planner window.

The attached file is based on data taken from the Quartix system, and has been designed to operate with AutoRoute, based on the best information available to us at the time of writing. Quartix cannot be held liable for any errors in the data, nor any failure of this data to operate with third party hardware or software.

The Fuel Card Report is only available on specific Quartix packages.

In order to use the Fuel Card Report, customers must be set up to transfer their fuel card information to Fleetcheck. Quartix partners with Fleetcheck on this report; they handle the logistics of the fuel card data and Quartix integrates that information in order to display it under the Fuel Card Report within the Fleet Management section of the application.



The Fuel Card Report is accessed from the main Fleet Management menu list.

Clicking on the link presents the user with a selection screen where they can choose how much information they wish to review.

It's possible to view one specific vehicle or a group of vehicles, by selecting the relevant group from the drop down menu. From there, users can select a single vehicle or all vehicles, plus start and end dates for the reporting period. Clicking on OK generates the report.



Once the Fuel Card Report has been generated, it contains the following information.

The usual menu options are on the right hand side with "Print" and "Export" included.



In the notes, there is just the Fleetcheck logo, confirming that the fuel card data is being provided by them.



The header of the report confirms what the user has chosen to view and for what time period.



Vehicle: The registrations of the vehicles for which the report has been run.

Net: The net value of the fuel.

Fuel consumption (mpg): The fuel used during the period. In order to calculate, there must have been at least two fuel purchases during the time period.

VAT: The VAT value of the fuel.

Quantity (gallons): The quantity of fuel used in gallons during the time period of the report.

Gross: The gross value of the fuel (NET+VAT).

In the main body of the report, the user can see the fuel card information that has been received by Fleetcheck and made available to Quartix.

Vehicle	Share of fuel usage - All vehicles: 0.0% North Vehicle: 0.0%	4.22	17.07	7.43	44.00
Washed Vans	Share of fuel usage - All vehicles: 0.0% North Vehicle: 1.0% 100.0%	16.57	66.76	13.36	86.11
Project PA/Bat	Share of fuel usage - All vehicles: 0.0% North Vehicle: 0.0% 0.0%	0.80	18.80	3.75	22.26
Pat Doran	Share of fuel usage - All vehicles: 0.0% North Vehicle: 1.0% 100.0%	12.4	15.71	66.38	11.50
Pat Pando	Share of fuel usage - All vehicles: 0.0% North Vehicle: 0.0% 0.0%	3.84	22.08	4.88	27.38
Team O-Max	Share of fuel usage - All vehicles: 0.0% North Vehicle: 2.0% 20.0%	31.4	35.84	100.08	26.72

On the report, between the vehicle registration and fuel consumption columns, there is a column that shows the percentage of fuel that the vehicle has used in relation to the groups that the vehicle is in.

It will, by default, give a percentage for the "all vehicles" listing and one for the other groups a specific vehicle is in. The user should expect a small percentage for "all vehicles" and a higher percentage if the vehicle is in groups with only a few other vehicles.

Vehicle	Share of fuel usage - All vehicles: 0.0% North Vehicle: 0.0%	4.22	17.07	7.43	44.00
Washed Vans	Share of fuel usage - All vehicles: 0.0% North Vehicle: 1.0% 100.0%	16.57	66.76	13.36	86.11
Project PA/Bat	Share of fuel usage - All vehicles: 0.0% North Vehicle: 0.0% 0.0%	0.80	18.80	3.75	22.26
Pat Doran	Share of fuel usage - All vehicles: 0.0% North Vehicle: 1.0% 100.0%	12.4	15.71	66.38	11.50
Pat Pando	Share of fuel usage - All vehicles: 0.0% North Vehicle: 0.0% 0.0%	3.84	22.08	4.88	27.38
Team O-Max	Share of fuel usage - All vehicles: 0.0% North Vehicle: 2.0% 20.0%	31.4	35.84	100.08	26.72

Clicking on the plus symbol in the "registration" column expands the data that is available for that vehicle.

The user can print the Fuel Card Report using the print option on the menu controls.

Printing is controlled by the printing attributes of the web browser the user is employing, so Internet Explorer and Google Chrome will operate slightly differently. Therefore, the formatting on the report will be different to the one that was e-mailed.



The user can also export the Fuel Card Report by using the “Export” option on the menu controls.

Information can be exported into either a CSV file or a Microsoft Excel spreadsheet.



Once an option is selected, clicking on “Export” generates the file and sends it into the user’s “Downloads” file. The option is given to “Open” or “Open Folder”.



All the information that is displayed in the online report, along with all the expanded information, is visible on the spreadsheet.

Vehicle	Transaction Date	Card Number	Product	Fuel consumption (mpg)	Quantity (gallons)	Net	VAT	Gross
- Peugeot Partner								
- Peugeot Partner	2016-04-29 14:35:00	123456	DIESEL		9.22	37.17	7.43	44.60
- Vauxhall Vivaro								
- Vauxhall Vivaro	2016-04-27 11:30:00	123456	DIESEL		16.57	66.75	13.36	80.11
- Peugeot PArtner								
- Peugeot PArtner	2016-04-01 10:37:00	23456	PREMIUM DIESEL		3.92	18.63	3.73	22.36
- Fiat Ducato				12.10				
- Fiat Ducato	2016-04-20 05:17:18	123654856	Diesel		10.25	40.73	8.15	48.88
- Fiat Ducato	2016-04-22 20:08:23	123654856	Diesel		3.46	14.27	2.85	17.12
- Fiat Panda								
- Fiat Panda	2016-04-12 20:07:46	1245635632	Diesel		5.84	22.98	4.60	27.58

The Monthly Mileage Report allows the user to view the mileage recorded for each vehicle for a month and then to break that down by day.

The report also includes the groups that the vehicles are in and how much they have been used over the month, along with the odometer readings and the Quartix odometer estimate.

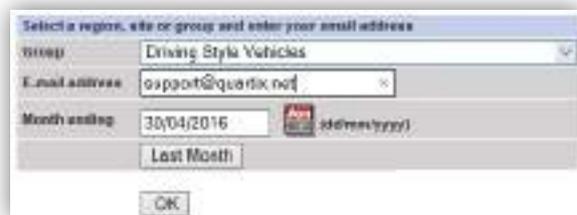
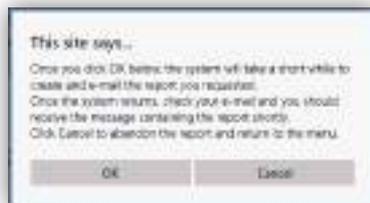
The Monthly Mileage Report is accessed off the "Fleet Management" main menu.

Clicking on the link presents the Quartix selection screen. This allows the user to either run the report for all of their vehicles or a certain group.

The next requirement is to enter the e-mail address that will receive the Excel attachment, then the "Month Ending" date for the report.

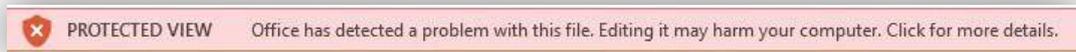
There is a "Last Month" button, as this is the most popular option, or the calendar control can be used to select a different month.

Clicking on OK brings up a message advising that the report will run and the user will be returned to the main "Fleet Management" menu.



The Monthly Mileage Report will arrive via e-mail from support@quartix.net and will contain an Excel attachment. Quartix advises that the user save this to their PC or network folder before trying to open it.

It is not possible to view this spreadsheet in the Excel viewer within Microsoft Outlook or any other Excel Viewer. The full version of Microsoft Excel is needed in order to see all of the information.



When opening the Monthly Mileage Report, the user will encounter a "Protected View" message and the "Edit Anyway" message. They must click on these for the report's information to display correctly.



This report has only one information tab.

At the very top is a section that will confirm the report type, the month the user has run, how many days that month contained, and how many of those days were weekdays.



The report can be looked at four different ways.

Vehicle

This section contains information about the vehicles: their registrations, descriptions, and the groups that they are in.

Registration Number	Description	Group names		
		1	2	3
Q211 LWP	BMW 3E8	Demo All vehicles	Driving Style Vehicles	-
Q250 BCO	BMW 518D	Demo All vehicles	Driving Style Vehicles	Demo SM
Q211 QTX	BMW M3	Demo All vehicles	Driving Style Vehicles	-
Q212 STY	Citroen Berlingo	Demo All vehicles	Driving Style Vehicles	-
Q212 KPL	Citroen Berlingo	Demo All vehicles	Driving Style Vehicles	-

Vehicle Usage (inc WEnds)	Vehicle Usage (Exc WEnds)	Ave Mileage per day (inc WEnds)	Ave Mileage per day (Exc WEnds)	Number of days unused (inc WEnds)	Number of days unused (Exc WEnds)
80.8%	76.2%	64.8	31	6	5
50.8%	61.9%	34.1	47.9	15	8
0.0%	0.8%	0	0	38	21
56.7%	81.0%	31.6	45.1	13	4
90.8%	100.8%	92.3	100	3	0
86.7%	100.8%	46.4	62.8	4	0
80.8%	65.7%	36.3	48	6	3

Usage

Gives usage information for each vehicle for the month. This includes:

- Usage percentages, including and excluding weekends.
- The average mileages, including and excluding weekends.
- The number of days unused, including and excluding weekends.

Odometer information

This section gives the odometer reading for the vehicle, the time the reading was recorded, and whether it is in miles or kilometres.

It also shows the estimated closing mileage at the end of the month.

Manual Odometer Reading		Manual Reading Date	Mileage This Month		Estimated Closing Mileage
78569	km	11/11/2015	1942.5	km	13321.0
301165	mi	11/03/2016	1022.0	mi	340778.0
7066	mi	22/03/2016	0.0	mi	8090.0
1523	mi	14/04/2016	948.3	mi	19563.0
402180	mi	26/11/2015	2767.6	mi	447933.0
318375	mi	07/10/2015	1390.8	mi	375266.0

01 Apr 2016	02 Apr 2016	03 Apr 2016	04 Apr 2016	05 Apr 2016
256.3	0.1		392.0	178.1
20.8	22.7	5.4	13.8	38.5
249.6	250.5	80.5	345.5	193.6
48.5	7.3	4.8	70.9	37.3
362.7	8.7	87.8	31.3	188.6
127.6	90.3	56.8	33.7	146.8
39.9	19.8	71.7	82.6	
20.8	30.3		93.2	227.9
286.7	13.3		5.2	
4.7			71.0	25.4
12.6			15.7	28.8
78.6	2.9		0.0	93.4

Daily distances

This is the distance that has been recorded for each vehicle for each day of the month.

If there is no information then the vehicle was not used on that date and no distance information was recorded.

The MOT / Service Date Report displays information about the vehicle that has been entered onto the system, such as MOT and service dates, insurance and tax renewal dates, and customisable events, to remind the customers of upcoming and overdue milestones.

Alerts will be triggered either by date or odometer reading.

For dates, at one month previous to the threshold date, the reading changes to orange. Past the date changes it to red.

For odometer readings, coming within 1,000 miles of the threshold date changes the reading to orange. Anything past the odometer threshold changes it to red.

All of these odometer and date thresholds are set in the "Edit Vehicle Management Data" section of the website which is under "Configuration."

Users logged on as an administrators can modify these dates and odometer thresholds by clicking through from the "MOT/Service Date Report".

The MOT / Service Date Report can be run for a group of vehicles or for all vehicles.

The user can decide this by selecting from the drop down menu and clicking OK.

As with all forms on the Quartix website, this report has the standard menu controls of "BACK", "PRINT" and "MENU".

There is also a "notes" section that gives the user key information about this specific report.

It is important to note that the benefit of this report is dependent on the correct information being entered for the vehicle with regards to key dates and odometer readings.

These should be reviewed and updated where applicable every few months. Quartix suggests every quarter, especially for the vehicles' odometer readings.

At the top of the report, there is a reminder of the symbols used in the report for "warning overdue" and "configuration required".

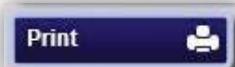
Notes:

1. The above status report is based on information entered into the Quartix system by the user.
2. While every attempt is made to ensure accuracy, Quartix Limited cannot accept liability for any errors or omissions.

Below is a table breaking down the information contained on this report.



Registration Number	Vehicle registration number.
Description	Description of the vehicle.
Next Service Due (Date)	Date that the next service is due.
Next Service Due (odometer)	The odometer reading at which the next service is due.
Insurance Renewal (Date)	Date that the vehicle's insurance must be renewed.
Road Tax Renewal (Date)	Date that the vehicle's tax needs to be renewed.
Next MOT Due (Date)	Date that the next MOT is due.
Milestone 1 Name	Name of the customer-specific milestone.
Milestone 1 (Date)	Milestone 1 is triggered by a date defined here.
Milestone 2 Name	Name for a second customer specific milestone.
Milestone 2 (Odometer)	The odometer reading at which the second milestone is triggered.
Manual Odometer Reading	Odometer reading that has been taken from the vehicle.
Manual Reading Taken (Date)	Date that that the manual odometer reading was taken.
Quartix Odometer Estimate	The Quartix odometer estimate reading (generated by the weekly reports).
Quartix Estimate Date/Time	The date/time that the Quartix odometer estimate was last updated.



You can print out the "MOT/Service Date Report" by clicking on the "Print" button at the right hand side of the report.

When the user clicks on the "print" button, the printing is controlled by the printing attributes of the user's web browser, so Internet Explorer and Google Chrome will operate slightly differently. The formatting on the report will be different than what is emailed to the user.

The On Site Visit Report is also known as the Daily Activity Report. It gives the user information on departure and arrival times, and time away from home locations.

The report is a measure of the effectiveness of a fleet that is primarily involved in service calls or activities such as maintenance/installation. In particular, the report concentrates on how long the fleet's vehicles spend on site.

The report is designed to give results for the following key measures:

- Start and end of working day
- Number and duration of on site calls
- Time spent travelling

The On Site Visit Report is accessed from the main menu under "Fleet Management"

Clicking on the link brings up the standard search screen. The report can be run for groups or specific vehicles.



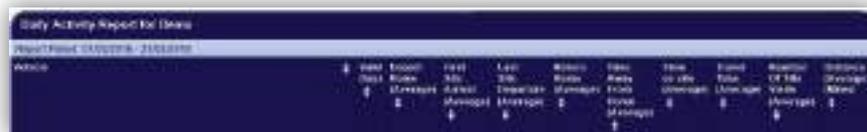
The user selects a group if required, then a specific vehicle or all vehicles.

Users are required to put in a "start" and "end" date for the report. Clicking on OK generates the report.

As with all forms on the Quartix website, there is the standard menu controls of "BACK", "PRINT" and "MENU".

In addition to these, users also have the option to "export" the data to an Excel spreadsheet or a CSV file.

At the top of the report, there is confirmation of the report being run. The report period is the start and end date of the report.



Valid Days	This is a valid working day based on set criteria
Depart Home (average)	Average home departure time
First Site Arrival (average)	Average time of first arrival on site
Last Site Departure (average)	Average time of latest departure from site
Return Home (average)	Average home arrival time
Time away from Home (average)	Time away from home location during the day
Time on Site (average)	Time on site for the day
Travel Time (average)	Average travel time for the day
Number of Site Visits (average)	Average number of site visits
Distance (average—Miles)	Average distance travelled

Valid day

It is important to understand what a valid day is on this report, as this affects how the data is interpreted. A valid day is defined as a day during which at least rules 1, 2, 4, and 5 result in a valid answer and are in increasing order of time.

1. Departure from home

- Last departure from a Home Location before the Latest Start Time and at the same time or before the First Arrival at Work; or
- First departure from Base location before the Latest Start Time and at the same time or before the First Arrival at Work; or
- Latest Departure from Overnight Location before the Latest Start Time and at the same time or before the First Arrival at Work; or
- Start of first trip of day/shift.

2. First arrival at work

- First arrival at Named Site; or
- First arrival at Base location
- First arrival at any location other than a Named Site, Base Location or Overnight Location where the vehicle is stationary for more than the Site Visit Threshold; or
- End of first trip of day/shift.

3. Visits to base

- Time spent at all Base Locations after first arrival at Visited Site.

4. Last Departure from work

- Last departure from Visited Site after first arrival at Visited Site; or
- Last departure from Base Location after first arrival at Base Location; or
- Start of last trip of day/shift.

5. Return home

- First arrival at Home Location after last departure from Visited Site; or
- First arrival at Home Location after last departure from Base Location; or
- First arrival at Overnight Location after last departure from Visited Site; or
- First arrival at Overnight Location after last departure from Base Location; or
- End of last trip of day/shift.

Clicking on the “plus” symbol next to the vehicle registration expands the information for that specific vehicle and displays the figures for each valid day.



When the data is expanded, the “plus” symbol changes to a “minus” symbol. Clicking on this hides the detailed information for all valid days.



Vehicle Registration	Start Time	End Time	Location	Duration	Other Metrics
Vehicle 1	08:00	09:00	Base	1:00	...
Vehicle 2	08:15	09:15	Base	1:00	...
Vehicle 3	08:30	09:30	Base	1:00	...
Vehicle 4	08:45	09:45	Base	1:00	...
Vehicle 5	09:00	10:00	Base	1:00	...

Vehicle Registration	Start Time	End Time	Location	Duration	Other Metrics
Vehicle 1	08:00	09:00	Base	1:00	...
Vehicle 2	08:15	09:15	Base	1:00	...
Vehicle 3	08:30	09:30	Base	1:00	...
Vehicle 4	08:45	09:45	Base	1:00	...
Vehicle 5	09:00	10:00	Base	1:00	...

The Out of Hours Report provides the mileage information that is recorded by the Quartix unit outside of defined hours.

These hours are set in the "Edit Vehicle Privacy Details" section of Configuration. The key difference is that the Monitoring Mode stays as 0.

The user sets their weekday, Saturday and Sunday hours, but leaves the monitoring mode as "Standard—24 Hour Monitoring".

After the report is accessed from the "Fleet Management" main menu, the user is presented with the standard Quartix search section.

Group: Select the group that for which the report will be run

Vehicles: Select either all the vehicles within the group or a specific vehicle.

Week Ending (Date): "Last Sunday" is available as a popular option, or the user can select a different end day for the week with the calendar controls.

Clicking on "OK" generates the report.

Monitoring Mode Standard - 24 hour monitoring
 Privacy - defined working hours only
 No monitoring - holidays etc.

Start monitoring (weekdays) 00:00
 End monitoring (weekdays) 00:00
 Start monitoring (Saturdays) 00:00
 End monitoring (Saturdays) 00:00
 Start monitoring (Sundays) 00:00
 End monitoring (Sundays) 00:00

Out of Hours Report for Demo

This feature is designed to report which vehicles have been in use outside your defined working hours. Contact support@quartix.net to change the working hours.

Enter the details below and click 'OK'

Group: Driving Style Vehicles
 Vehicle: All vehicles
 Week ending date: 31/03/2016 (Last Sunday)
 Last Sunday
 OK

Tip - You can select a date using the button or enter any date over the period to search.

As with all forms on the Quartix website, there are the standard menu controls of "BACK", "PRINT" and "MENU".

There is a small notes section that confirms the user is running the "weekly out of hours" report and for which group it is running.

Notes

Weekly Out of Hours Report for Demo - All Vehicles.

Weekly Out of Hours Report for Demo - All Vehicles

Vehicle	Date	Mileage
G211100 - Blue Van	Tuesday 22/03/16	011
	Wednesday 23/03/16	063
	Thursday 24/03/16	043
	Friday 25/03/16	021
	Saturday 26/03/16	063
Total		194
G211100 - Blue Van	Saturday 26/03/16	01
	Sunday 27/03/16	024
Total		25
G211100 - Silver Van	Sunday 27/03/16	03
	Monday 28/03/16	001
	Tuesday 29/03/16	001
	Wednesday 30/03/16	001
	Thursday 31/03/16	005
Total		10
G211100 - Silver Van	Tuesday 22/03/16	01
	Wednesday 23/03/16	001
	Thursday 24/03/16	001
	Friday 25/03/16	001
	Saturday 26/03/16	001
Total		5

The top of the report reminds the user of the group that the report has been run for and the Week Ending date.

For each vehicle and for each date where "out of hours" mileage has been recorded, there is a section showing the day, date, and the mileage on that day. There is a total for the "out of hours" mileage.

If a day or date is not showing on the report, it is because the system has not found any mileage information within the "out of hours" time period.

The Summary Data Spreadsheet can either be generated and viewed online or e-mailed as an Excel spreadsheet.

The e-mailed Excel spreadsheet provides additional information compared to what is available in the online report.

The online report gives summary information, whereas the Excel report gives summary information plus every stop and start time for the time period for which the report has been generated.

The Summary Data Spreadsheet is accessed via the "Fleet Management" list. Clicking on the link presents the user with the standard Quartix report generation options.

When entering the search criteria, there are the standard options to select "groups" and "vehicles." The user has the choice to either enter an e-mail address in order to receive the Excel report or to check the option "show on screen". Start and end dates for the report must also be entered.

If the user elects to receive the e-mailed spreadsheet, after they click "OK," the system will return them to the main "Fleet Management" menu list.



If they choose to view the report on screen, it will then display the relevant information based on the criteria entered.

The Summary Data Spreadsheet can be divided into the same sections as the other reports under "Fleet Management". On the right there are the menu options for navigation and to print the report.

BACK—This takes you back to the previous page

PRINT—Prints the report

MENU—Returns you to the search page for the report with the main Quartix menus on the left hand side of the page



Notes

This report displays all the stop and start times for the selected group of vehicles over the selected date range.

There is a notes section that provides information on the report. In the case of the Summary Data Spreadsheet, the information relates to the Excel version which is emailed to users.

The online version shows the first and last trips of the day and the total time at the "Home" location.

Summary Data Spreadsheet for Quartix						
lon Test						
01/05/2016 - 22/05/2016						
Group Name	Registration Date	First Trip Started	First Arrived at Home Location	Total Time at Home Location	Last Time at Home Location	End of Last Trip

Group	The group for which the report is being run.
Registration	Registrations of the vehicles.
Date	Dates within the report.
First Trip Started	Time that the first trip of the day started.
1st Arrival at Home Location	The first arrival at the "home" location.
Total Time at Home Location	Total time at the home location, if the vehicle returns during the day.
Last Time At Home Location	Last time that the vehicle was at the "home" location.
End of Last Trip	Time of the end of the last trip.

The Summary Data Spreadsheet report will look like the screen shot to the right.

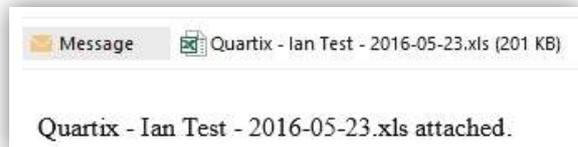


Group Name	Registration Date	Fleet Reg Sector	First Arrival at Home Location	Total Time at Home Location	Last Time at Home Location	End of Last Trip
Van Test	2016-05-23	00000000	07:00	00:00	07:00	07:00
Van Test	2016-05-23	00000000	07:00	00:00	07:00	07:00
Van Test	2016-05-23	00000000	07:00	00:00	07:00	07:00
Van Test	2016-05-23	00000000	07:00	00:00	07:00	07:00
Van Test	2016-05-23	00000000	07:00	00:00	07:00	07:00

Print the report by clicking on the "Print" button.

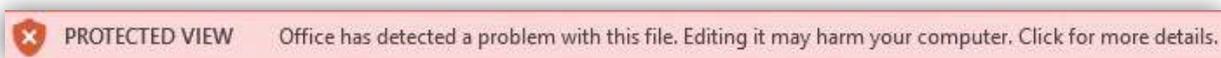
When the user clicks on the "Print" button, the printing is controlled by the printing attributes of the web browser they are using, so Internet Explorer and Google Chrome will operate slightly differently. The formatting on the report will be different to the one that is e-mailed.

If the user chooses the e-mailed version of the Summary Data Spreadsheet, they receive an e-mail from support@quartix.net.

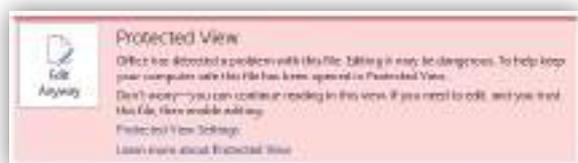


This will contain an Excel attachment. Quartix advises that this attachment is saved to a local PC or network share before the spreadsheet is opened.

When the Summary Data Spreadsheet is opened, the user is prompted with the "Protected View" message and the "Edit Anyway" message. They must click on these for all the information to display correctly.



When the report opens, there are different tabs at the bottom of the screen.



At-Base Summary

This is the same information that is displayed on the "show on screen" version. There is a tab for each registration that is included in the report.

There may be other tabs that are in the format of \$\$Page5, etc. These will show for any tabs that are not used.

This report will show information for up to 25 vehicles, plus the "At-Base Summary".

As advised, the "At-Base Summary" tab contains the same information as is shown on the online version of the report.

However, with the data being in Excel, it can be reformatted as desired.

Quartix Summary Data							
Group Name	Registration	Date	First Trip Started	First Arrival at Home location	Total Time at Home Location	Last Time at Home location	End of Last Trip
Ian Test	DV14	01/05/2016	09:22	15:48	-	15:48	15:48
Ian Test	DV14	02/05/2016	10:10	10:52	5:10	16:03	16:03
Ian Test	DV14	03/05/2016	07:46	17:30	-	17:30	17:30
Ian Test	DV14	04/05/2016	07:43	17:21	0:32	19:42	19:42
Ian Test	DV14	05/05/2016	14:40	15:38	1:54	20:46	20:46
Ian Test	DV14	06/05/2016	07:46	17:23	0:03	17:43	17:43
Ian Test	DV14	07/05/2016	08:11	09:11	0:51	11:00	11:00
Ian Test	DV14	08/05/2016	16:51	17:14	-	17:14	17:14
Ian Test	DV14	09/05/2016	07:46	17:35	1:34	20:45	20:45
Ian Test	DV14	10/05/2016	08:05	09:00	4:47	16:06	16:06
Ian Test	DV14	11/05/2016	07:42	17:23	-	17:23	17:23
Ian Test	DV14	12/05/2016	07:41	15:38	3:05	22:37	22:37
Ian Test	DV14	13/05/2016	07:41	17:36	-	17:36	17:36

The tabs for each vehicle registration provide additional information.

Vehicle Home Location SMT Start	DV14 IAN 08:11	Mazda							
Event ID	Diver ID	Event	Grid	Grid Y	Location	Arrival Time	Departure Time	Time At Location	Time At Home Location
0		Ignition-Off	275064	307816	Upper Cerra, MACHYILLETH, Powys, SY208RF	01/05/16 10:21	01/05/16 12:24	02:01	
		Stop	275061	307796	Stopped with Ignition ON at Upper Cerra, MACHYILLETH, Powys, SY208RF	01/05/16 12:25	01/05/16 12:32	00:07	
		Stop	275061	307796	Stopped with Ignition ON at Upper Cerra, MACHYILLETH, Powys, SY208RF	01/05/16 12:31	01/05/16 13:48	00:06	
0		Ignition-Off	275063	307796	Upper Cerra, MACHYILLETH, Powys, SY208RF	01/05/16 12:48	01/05/16 13:22	00:42	
0		Ignition-Off	253181	301128	TYWYN, Gwynedd, LL308RT	01/05/16 13:43	01/05/16 13:58	00:05	
0		Ignition-Off	257784	306497	Moine Parade, TYWYN, Gwynedd, LL308DE	01/05/16 14:06	01/05/16 14:01	00:03	
		Stop	257785	306496	Stopped with Ignition ON at Moine Parade, TYWYN, Gwynedd, LL308DE	01/05/16 14:06	01/05/16 14:15	00:10	
0		Ignition-Off	318307	298852	HOME	01/05/16 15:48	02/05/16 18:18	18:21	19:21
0		Ignition-Off	318318	291786	Moorsmill	02/05/16 19:16	02/05/16 18:48	00:28	
0		Ignition-Off	318353	295858	HOME	02/05/16 19:52	02/05/16 15:57	05:04	16:04
0		Stop	318353	298853	Stopped with Ignition ON at HOME	02/05/16 16:58	02/05/16 16:02	00:04	
0		Ignition-Off	318351	298858	HOME	02/05/16 16:01	03/05/16 07:48	15:43	16:43
0		Ignition-Off	318631	291813	Back Lane, NEWTOWN, Powys, SY162RH	03/05/16 07:58	03/05/16 17:18	09:19	
0		Ignition-Off	318327	298853	HOME	03/05/16 11:38	04/05/16 07:43	14:12	14:12
0		Ignition-Off	318652	291821	Back Lane, NEWTOWN, Powys, SY162RH	04/05/16 07:58	04/05/16 17:06	09:09	
0		Ignition-Off	318357	298853	HOME	04/05/16 11:21	04/05/16 17:52	08:32	08:32
0		Ignition-Off	322249	296457	Broad Street, MONTGOMERY, Powys, SY166PH	04/05/16 18:01	04/05/16 19:34	01:30	
0		Ignition-Off	318387	298851	HOME	04/05/16 19:42	05/05/16 14:48	18:35	19:55
0		Ignition-Off	327285	291833	Chuckstone School	05/05/16 14:56	05/05/16 15:22	00:25	
0		Ignition-Off	318317	298853	HOME	05/05/16 15:38	05/05/16 17:32	01:54	01:54
		Stop	318958	306421	Rebal Parc, Reval, Brenew, WELSHPOOL, Powys, SY218EF	05/05/16 17:41	05/05/16 20:38	02:57	
0		Ignition-Off	318351	298853	HOME	05/05/16 20:48	05/05/16 07:48	11:00	11:00
0		Ignition-Off	318651	291822	Back Lane, NEWTOWN, Powys, SY162RH	06/05/16 07:57	06/05/16 17:12	09:15	

They show the "arrival" and "departure" times at each site, along with the time spent at the location.

There are also the location names and the Grid X/Y coordinates for the location.

In addition, the time at the "home" location is also displayed.

The Time on Site Report allows the user to run a report to see when a vehicle has visited a specific location. It looks for any "stopped with ignition-on" or "ignition-off event" within a radius around a specified location.

This can be an address, postcode or a customised location.



There is the usual Quartix selection form which allows the user to run the report for specific groups and/or vehicles.

The location and a radius around that location must be provided, along with a "start" and "end" date for the report. This is the time period for which the report will be run.

At the bottom of the search section there is a "tip" on the use of customised locations.

Tip - If you have custom locations enabled, leave the address field blank to select from a drop-down menu on the next page. Alternatively, enter an address or postcode as the centre of the search area together with a distance (e.g. 0.5 miles) to search from the centre.

If the "address" field is left blank, the following page appears where the user can select one of their customised locations.

Clicking on the drop down arrow to display the customised location names, the user can select a vehicle and click OK.



If they decide not to use any of their customised locations, they click on "cancel" and will be taken back to the main search screen where they can enter a different location.

After the user enters a location and clicks "OK," it will take the system a few moments to generate the report.

If the report is being run for a large number of vehicles over a long time period, then it will take longer to generate than it would for a few vehicles over a couple of weeks.

On the right hand side are the usual menu controls.

BACK—takes you back to the previous page

PRINT—prints the selected report

EXPORT—allows the user to export the report to a CSV file

MENU— returns the user to the menu/search form for the report



The report also has a "Notes" section. In this box there is confirmation of the location that has been entered and the radius around that location.

Just above the main body of the report, there is confirmation of the report name and also the date period for which the report is being run.



The Time On Site report will look like this:

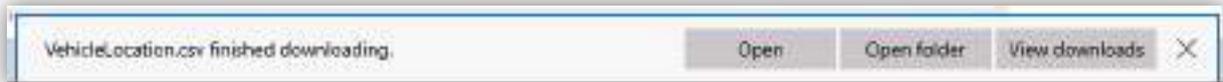
Vehicle	Arrival Time	Event	Location	Departure Time	Time on site (h)
0018 BAW - Fiat Dacia	0018:00:18 11:15	Stop	Stopped with Ignition ON at Wilson Road, BIRMINGHAM, B8 8PA	01:03:00:18 11:28	0:20
0018 BAW - Fiat Dacia	11:00:00 11:20	Stop	Stopped with Ignition ON at Lower Galswell Close, BIRMINGHAM, B8 8PA	11:03:00:18 11:28	0:07
0018 BAW - Fiat Dacia	10:00:00 00:35	Stop	Stopped with Ignition ON at Wilson Road, BIRMINGHAM, B8 8LS	11:03:00:18 00:00	0:00
0018 BAW - Fiat Dacia	00:00:00 10:00	Stop	Stopped with Ignition ON at Parkside Road, Aston, BIRMINGHAM, B6 6AN	00:03:00:18 10:07	0:07
Total					0:28
0011 54P - Renault Metzer	25:00:00 07:45	Ignition OFF	Stretford Road, BIRMINGHAM, B15 1SE	25:03:00:18 07:46	0:03
Total					0:03
0011 BR - Vauxhall Astra	04:00:00 00:45	Stop	Stopped with Ignition ON at Lodge Road, Aston, BIRMINGHAM, B6 6LU	01:03:00:18 00:24	0:26
0011 BR - Vauxhall Astra	10:00:00 00:10	Ignition OFF	Aston Lane, Aston, BIRMINGHAM, B6 6BP	10:03:00:18 00:21	0:04
Total					0:33

Vehicle	These are the vehicle registrations and descriptions that have been identified as being at the location.
Arrival	The date and time that the vehicle arrived at the location.
Event	The different types of events. They will either be "stop" or "ignition-off".
Location	The name of the location.
Departure Time	The date and time that the vehicle left that location.
Time on Site (h)	The time in hours that the vehicle was at the location.

If the user chooses to export the results, they can do this by clicking on the “Export” button from the menu controls.

There will not be a choice of file formats; once the report is created there will be an info message at the bottom of the screen, advising that the file has finished downloading.

From there, the user has the option to “Open” the file or to “Open folder.” That will allow the user to copy it to a different location or to open it from the folder.



Once the report is opened, the user will have access to the same information as seen when the report is viewed online.

The Time On Site report is in seconds rather than hours. This is down to the nature of the export to the CSV file.

A	B	C	D	E	F	G	H	I	J
Vehicle	Description	Arrival Time	Event	Location	Latitude	Longitude	Departure Time	Time On Site (seconds)	Time on site
QK10 SMW	Fiat Ducato	01/03/2016 10:18	Stop	Stopped with Ignition ON at Witze Road, BIRMINGHAM, B6 8PA	52.58932	-1.8911	01/03/2016 10:20	1227	00:20:27
QK10 SMW	Fiat Ducato	11/03/2016 12:30	Stop	Stopped with Ignition ON at Lower Ground Close, BIRMINGHAM, B6 8PS	52.51125	-1.88788	11/03/2016 12:38	488	00:07:48
QK10 SMW	Fiat Ducato	11/03/2016 16:15	Stop	Stopped with Ignition ON at Witze Road, BIRMINGHAM, B6 8LE	52.56179	-1.89517	11/03/2016 16:40	142	00:05:42
QK10 SMW	Fiat Ducato	30/03/2016 16:59	Stop	Stopped with Ignition ON at Hampden Road, Aston, BIRMINGHAM, B6 8AG	52.56777	-1.96121	30/03/2016 17:07	449	00:07:29
QK11 SVP	Renault Medium	25/03/2016 07:42	Ignition-Off	Birchfield Road, BIRMINGHAM, B15 1SU	52.56012	-1.89012	25/03/2016 07:46	182	00:03:02
QK11 INR	Vauxhall Astra van	01/03/2016 09:55	Stop	Stopped with Ignition ON at Lodge Road, Aston, BIRMINGHAM, B6 8LU	52.56782	-1.88186	01/03/2016 09:34	1785	00:29:25
QK11 INR	Vauxhall Astra van	16/03/2016 08:18	Ignition-Off	Aston Lane, Aston, BIRMINGHAM, B6 6QP	52.51286	-1.88821	16/03/2016 08:11	262	00:04:22



When the user clicks on the “print” button, the printing is controlled by the printing attributes of the web browser they are using, so Internet Explorer and Google Chrome will operate slightly differently. The formatting on the report will be different to the one that is e-mailed.

The Vehicle Utilisation Analysis Report gives the user summary information for their vehicle or driver. If the report is run for multiple months, this summary information is given as a total for each month.

The report is useful as it gives the user an “at a glance” overview on how much their vehicles are being utilised.

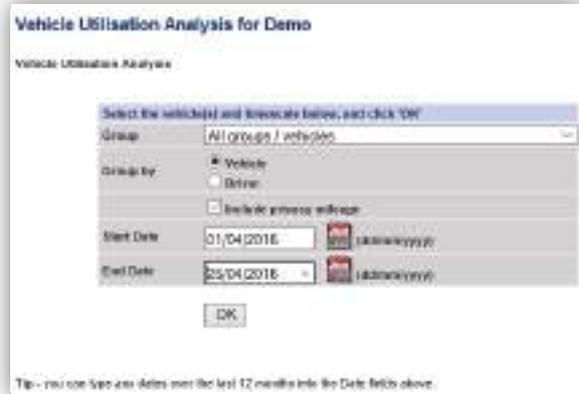
The Vehicle Utilisation Analysis Report is accessed via the link on the “Fleet Management” main menu.

Clicking on the link takes the user through to the standard Quartix search section for the report. There, parameters are entered for the report generation.

Group—Narrows the report to a specific group of vehicles.

Group by—Runs the report either by vehicle registration or by driver name.

Include privacy mileage—Runs the report including any mileage recorded when the unit was in privacy mode, but only reports distances, “ignition-on,” and “stopped with ignition-on” location names.



Start date—The starting date for the report.

End date—The ending date for the report.

Clicking on “OK” generates the report.

On the right hand side you will have the usual menu controls.

Notes

Report excludes privacy mileage.

Idling % is calculated as the ratio of idling time to idling time plus travel time.

The report also has a “Notes” section. In this box, there is information confirming if the report includes or excludes privacy mileage and how idling is calculated.

At the top of the report is a header confirming the name of the report, the user’s account name, and the date period for which the report is being run.

- BACK**—takes you back to the previous page
- PRINT**—prints the selected report
- EXPORT**—allows the user to export the report to a CSV file
- MENU**—returns the user to the menu/search form for the report



Vehicle or Driver	Vehicles (including descriptions) or drivers that are included on the report.
Month	The month for which the data has been run. If run for more than a month, each month is split separately.
Distance (miles)	The total distance in miles for the time period or month.
Travel Time (h:mm)	The total travel time for the time period or month.
Idling Time (h:mm)	The total idling time for the time period or month.
Idling (%)	The % of idling, as calculated in the notes section.
Max Speed (mph)	The maximum speed recorded for the time period or month.

This is how the Vehicle Utilisation Analysis looks on the screen:

Vehicle	Month	Distance (Miles)	Fuel Cost (£/Gallon)	Mileage (P/G)	Max Speed (MPH)
BMW 320i 3.0i 180i	04/2016	1000.7	23.46	42.7	111
BMW 320i 3.0i 180i	04/2016	756.3	19.95	38.3	88.6
Volvo 460 GLE 2.0i 160i	04/2016	661.2	24.25	27.3	86.4
Volvo 460 GLE 2.0i 160i	04/2016	2191.7	60.96	36.1	86.4
Volvo 460 GLE 2.0i 160i	04/2016	566.7	21.98	25.9	100.9
Volvo 460 GLE 2.0i 160i	04/2016	756.3	22.35	33.9	88.6
Volvo 460 GLE 2.0i 160i	04/2016	1486.4	40.38	36.6	88.6
Ford Focus 1.8i 125i 100i	04/2016	2291.1	122.26	18.7	127.7
Ford Focus 1.8i 125i 100i	04/2016	1027.3	49.16	20.9	76.9
Ford Focus 1.8i 125i 100i	04/2016	2000.6	60.00	33.0	76.9
Ford Focus 1.8i 125i 100i	04/2016	1264.4	37.76	33.4	88.6
Ford Focus 1.8i 125i 100i	04/2016	407.1	20.26	20.4	77.7
Mercedes 300cdi 2.5i 160i	04/2016	2791.6	122.16	22.9	78.3
Peugeot 406 1.8i 125i 100i	04/2016	1761.6	79.16	22.3	76.9
Peugeot 406 1.8i 125i 100i	04/2016	1096.1	49.26	22.1	77.7
Peugeot 406 1.8i 125i 100i	04/2016	1381.6	52.26	26.4	88.6
Peugeot 406 1.8i 125i 100i	04/2016	2271.2	44.26	51.4	88.6
Peugeot 406 1.8i 125i 100i	04/2016	2716.6	73.66	36.6	88.6
Peugeot 406 1.8i 125i 100i	04/2016	1041.6	30.46	34.4	100.9
Peugeot 406 1.8i 125i 100i	04/2016	2211.2	62.26	35.4	88.6
Peugeot 406 1.8i 125i 100i	04/2016	1031.2	49.16	21.1	78.3
Peugeot 406 1.8i 125i 100i	04/2016	1081.2	49.16	22.1	111

The Vehicle Utilisation Analysis report can either be printed or exported to a CSV file.

When the user clicks on the "Print" button, the printing is controlled by the printing attributes of the web browser they are using, so Internet Explorer and Google Chrome will operate slightly differently. The formatting on the report will be different to the one that is e-mailed.

Vehicle	Month	Distance (Miles)	Fuel Cost (£/Gallon)	Mileage (P/G)	Max Speed (MPH)
BMW 320i 3.0i 180i	04/2016	1000.7	23.46	42.7	111
BMW 320i 3.0i 180i	04/2016	756.3	19.95	38.3	88.6
Volvo 460 GLE 2.0i 160i	04/2016	661.2	24.25	27.3	86.4
Volvo 460 GLE 2.0i 160i	04/2016	2191.7	60.96	36.1	86.4
Volvo 460 GLE 2.0i 160i	04/2016	566.7	21.98	25.9	100.9
Volvo 460 GLE 2.0i 160i	04/2016	756.3	22.35	33.9	88.6
Volvo 460 GLE 2.0i 160i	04/2016	1486.4	40.38	36.6	88.6
Ford Focus 1.8i 125i 100i	04/2016	2291.1	122.26	18.7	127.7
Ford Focus 1.8i 125i 100i	04/2016	1027.3	49.16	20.9	76.9
Ford Focus 1.8i 125i 100i	04/2016	2000.6	60.00	33.0	76.9
Ford Focus 1.8i 125i 100i	04/2016	1264.4	37.76	33.4	88.6
Ford Focus 1.8i 125i 100i	04/2016	407.1	20.26	20.4	77.7
Mercedes 300cdi 2.5i 160i	04/2016	2791.6	122.16	22.9	78.3
Peugeot 406 1.8i 125i 100i	04/2016	1761.6	79.16	22.3	76.9
Peugeot 406 1.8i 125i 100i	04/2016	1096.1	49.26	22.1	77.7
Peugeot 406 1.8i 125i 100i	04/2016	1381.6	52.26	26.4	88.6
Peugeot 406 1.8i 125i 100i	04/2016	2271.2	44.26	51.4	88.6
Peugeot 406 1.8i 125i 100i	04/2016	2716.6	73.66	36.6	88.6
Peugeot 406 1.8i 125i 100i	04/2016	1041.6	30.46	34.4	100.9
Peugeot 406 1.8i 125i 100i	04/2016	2211.2	62.26	35.4	88.6
Peugeot 406 1.8i 125i 100i	04/2016	1031.2	49.16	21.1	78.3
Peugeot 406 1.8i 125i 100i	04/2016	1081.2	49.16	22.1	111

Hi Demo

Back

Print

Export

Menu

When the user clicks on "export," they will not get to choose the format in which they want to save the report. There is a pop-up advising that the report has been created as a CSV file and the user is given the option to "Open," "Open folder" or "View Downloads".

2016-04-01 - 2016-04-25 - VehicleUtilisation - All Groups.csv finished downloading.

Open Open folder View downloads

Once exported, the Vehicle Utilisation Analysis can be opened in Microsoft Excel and then reformatted as required. It contains the same information as is shown on the online report.

	A	B	C	D	E	F	G
1	Vehicle	Month	Distance	Travel Time (h:mm)	Idling Time (h:mm)	Idling (%)	Max Speed
2	BMW 350, QX11 LWP	Apr-16	1095.7	25:44:00	00:23	1.5	67.7
3	BMW 535D, QX50 SCO	Apr-16	726.8	19:55	00:07	0.6	94.5
4	Citroen Berlingo, QX12 BNB	Apr-16	1012.2	34:23:00	00:49	2.3	68.4
5	Citroen Berlingo, QX12 KPU	Apr-16	2107.7	62:06:00	02:15	3.5	68.4
6	Citroen Berlingo, QX12 STY	Apr-16	559.7	27:59:00	00:48	2.8	140.5
7	Citroen C5, QX11 QQE	Apr-16	743.1	23:35	00:02	0.1	68.4
8	Citroen C5, QX11 YRT	Apr-16	1406.4	46:24:00	02:55	5.9	68.4
9	Fiat Ducato, QX10 SNW	Apr-16	2291.1	103:05:00	58:10:00	36.1	82.7
10	Ford Transit LWB, QX62 BKS	Apr-16	1827	44:16:00	00:02	0.1	70.9
11	Ford Transit LWB, QX62 JKH	Apr-16	2820.9	65:03:00	02:20	3.5	79.6
12	Ford Transit LWB, QX62 NHW	Apr-16	2266.6	62:58:00	03:58	5.9	69.6
13	Land Rover Freelander, QX61 IBD	Apr-16	697.1	28:39:00	02:24	7.7	77.7
14	Mercedes Atego, QX10 SEB	Apr-16	4791.6	132:16:00	24:36:00	15.7	78.3
15	Peugeot Partner, QX61 JFT	Apr-16	2707.6	70:02:00	01:22	1.9	75.8
16	Peugeot Partner, QX61 PKM	Apr-16	1589.1	40:38:00	00:54	2.2	77.7
17	Peugeot Partner, QX61 QYP	Apr-16	1381.9	33:38:00	02:45	7.6	69.6
18	Renault Midlum, QX11 SIP	Apr-16	1277.8	43:22:00	13:49	24.2	61.5
19	Renault Trafic, QX50 JJW	Apr-16	2775.8	74:05:00	03:17	4.2	69
20	Renault Trafic, QX50 PPW	Apr-16	1581.4	38:49:00	01:08	2.8	74.6
21	Renault Trafic, QX50 QWR	Apr-16	1212.1	42:22:00	01:54	4.3	68.4
22	Vauxhall Astravan, QX61 INR	Apr-16	325.6	16:00	00:23	2.3	74.6
23	Volkswagen Transporter, QX61 TTK	Apr-16	1150.9	26:33:00	00:09	0.6	67.7

Driving Style reports are accessed from the main Quartix menu list and contain the following reports. All of these reports relate to how the vehicle is being driven.



Daily Driver Briefing	Produces an online display analysing driver behaviour for the selected day and vehicle or driver.
Driving Style League Table	Ranks drivers according to their driving style scores.
Monthly Speed Report	Contains information on speeds recorded for a month that are over a defined speed threshold.
Weekly Speed and Utilisation Chart	Shows the weekly speeds recorded for a vehicle, along with the utilisation percentage for the vehicles.

Acceleration and Braking

The Quartix system monitors the speed of the vehicle every second, and the acceleration and braking indexes are calculated from the number of times per hour that the speed changes by more than a given amount between one second and the next. These are then weighted according to how severe they are, and averaged over a driving hour to calculate the Acceleration Index and the Braking Index.

This speedometer shows the 10 levels of acceleration and braking, and each level has a weighting based on its severity. So if the speed goes up by 6 mph in a second, that is a level 3 acceleration. If the speed goes down by 9 mph that is a level 3 braking and so on.



Calculating Acceleration and Braking Indexes

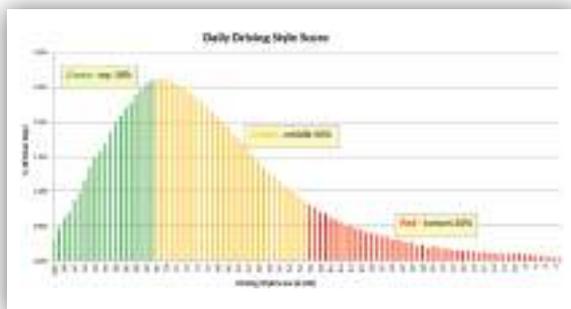
The acceleration index is the sum of all the acceleration incidents, each multiplied by their severity and finally divided by the driving time in hours. A driver with modest acceleration will show an acceleration index of about 1 to 20 per hour, and for a driver using harsh acceleration regularly the index will be 50 or more.

The braking index is worked out in a similar way, except that the levels of speed change are slightly different, as are the severity weightings.

Example. If a vehicle is driven for 2 hours, and during that time there are 20 level 1 accelerations (severity 0.2) and 15 level 2 accelerations (severity 0.5) then the acceleration index is $(20 \times 0.2 + 15 \times 0.5) / 2 = 5.75$. This is a relatively low index, showing modest acceleration.

Driving Style Score

The Driving Style Score is the overall score out of 100 for a given period, typically a day, a week or a month. The system will add up all the weighted acceleration and braking events with their severities, calculate the total driving time and work out the Acceleration and Braking Indexes. The average of these will then be subtracted from 100 to give the score. So if a driver has an acceleration index of 10 and a braking index of 6, the average is 8. The Driving Style Score is $100 - 8$, i.e. 92/100.



Distribution of Daily Driving Style Scores

This graph shows an analysis of 830,000 trips pulled from the trips database for a range of customers, giving scores for 64,000 'driver days'.

As described above, the calculation of the acceleration and braking indexes and hence the driving style score are based on a 'per hour' calculation. Calculating the average per hour means that no drivers are penalised for driving more or less than any other driver.

The system calculates the Daily Driving Style Score for each day, based on the amount of driving for that day or shift (excluding any parts of trips before the start or after the end of the day/shift). We apply colours to the Daily Driving Style scores as shown on the plot below. If the score is >80 it is green, and this represents the best 30% of drivers. If the score is between 50 and 80 it is shown as amber, and this represents the middle 50% of daily scores. 50 or below is red, and that's the worst 20%.

Quartix captures more than 30 million vehicle movement events every day. With this data, we are able to maintain our Road Speed Database for the UK roads network.

This database allows us to compare the speed profile of individual drivers to other drivers on the same section of road, by providing two key pieces of information: an estimate of the speed limit for the location of the vehicle and a distribution of measured speeds at that point.

The Daily Driver Briefing gives the user insight into the daily driving style of their company's drivers. The report can be generated either for a single vehicle or, if Driver ID tags are used, for a specific driver, to see individual scores.

The report gives information on speed and driving time, plus acceleration and braking events. These are used to give the driver a score out of 100 that can be easily referenced.

The Daily Driver Briefing is accessed from the main Driving Style menu option. Clicking on the link brings up the standard Quartix search screen.

Daily Driver Briefing for Demo

This feature produces an online display analysing driver behaviour for the selected day and vehicle.

Enter the details below and click 'OK'	
Group	Driving Style Vehicles
Vehicle	QX61 INR, Vauxhall Astravan
Driver	No drivers registered
Date	15/04/2016  (dd/mm/yyyy)
	Yesterday Today

OK

Tip - you can type any date over the last 6 months into the Date field above - you're not limited to just Yesterday or Today.

As the report is generated for a specific vehicle or driver, the "group" drop down can be used to narrow the user's search to vehicles or drivers in a specific group.

The user will then select a vehicle or driver (if Driver ID tags are not used, no drivers will be listed) and enter a date. The "yesterday" or "today" buttons can be used as these are the most popular search options, or the user can manually type in a date in the DD/MM/YYYY date format. Calendar controls can also be used.

Clicking OK generates the report.

The Daily Driver Briefing has the same standard controls as the Daily Vehicle Log.

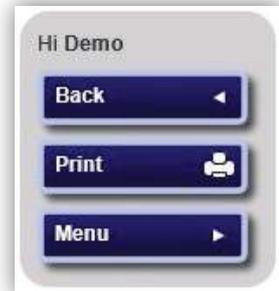
The "Back", "Print" and "Menu" options are on the right hand side of the report.



In the top left hand corner of the report is the report header, showing the report name, vehicle registration and description.



Below this are the controls to move between dates using the forward and back arrows.



As with other reports, 12 months worth of data is held live on the website.

The "Summary" section on the right hand side contains data on the travel information for the day.

First Trip Start: The time that the first trip of the day started.

Last Trip End: The time that the last trip of the day finished.

Driving Time: The total driving time for the day.

Stationary Time: The time that the vehicle was stationary with the ignition off between the first ignition on to the last ignition off.

Idling Time: The time that the vehicle was stationary with the ignition still on between the first ignition-on to the last ignition-off.



The Driving Style score is shown out of a possible 100 for that vehicle (or driver, if the report has been generated for a driver rather than a vehicle) for the day in question.

The closer the score is to 100, the better.

The different colours used to show the score have been previously explained.

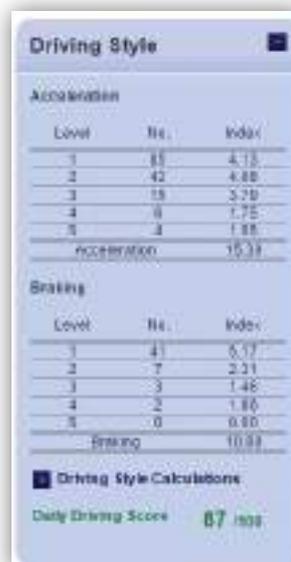
Clicking on the + icon next to Driving Style will expand the information, allowing the user to see how the score was generated. The Driving Style score is calculated by assessing the acceleration and braking levels/numbers.

The Driving Style score is calculated by looking at the acceleration and braking levels and numbers.

Different weightings are given to the different levels and these also vary between, for example, a level 4 acceleration event and a level 4 braking event.

These different weightings are shown below.

Level	Acceleration	Braking
1	0.2	0.5
2	0.5	2
3	2	4
4	4	10
5	10	20



Another important figure is the travel time as there can be two drivers that have the same acceleration and braking events, but the one who has recorded these in the shortest driving time will have a worse score than the driver who was driving for a longer period.

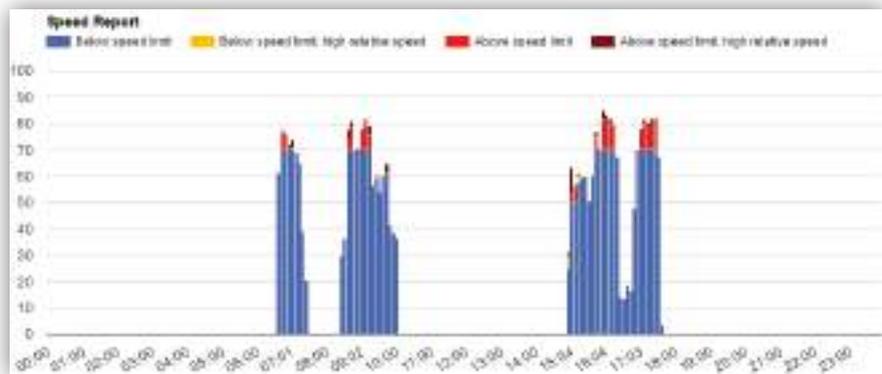
The Speed Profile bar shows the driver's speed, relative to other drivers, as a percentile, which is averaged over the trips taken on a specific day. Most drivers will fall between 40% and 60%. The example here shows the speed profile for a driver having a relative speed score of 75. This represents a driver whose relative speed score is in the top 40% when compared to the speed profile of other drivers.

Quartix's enhanced Daily Driver Briefing gives you an even more accurate portrait of how your drivers are taking to the roads. With this information, you can adopt policies and practises that can lower your fuel costs, decrease your environmental impact and improve the overall safety of your fleet.



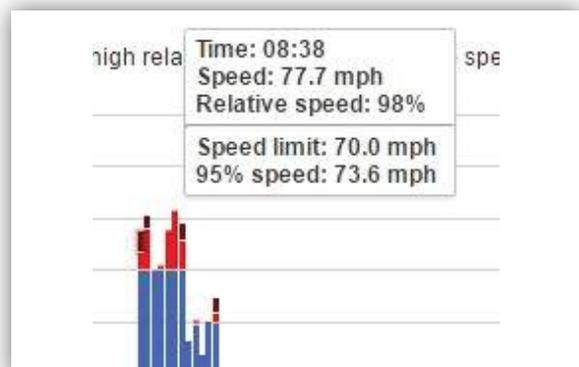
Within the new Daily Driver Briefing report, the driver's speed profile, or Speed Report, for the day is shown in the top chart. The Driving Style Report graph below that shows a comparison with the Road Speed Database profile for that section of road and shows the driver's Acceleration and Braking Indexes.

For the Speed Report, the speed limit is indicated on each bar as a horizontal line through the speed data point. If viewed across several data points, the speed limit is clear, however hovering over the data line will show the speed limit, the driver's speed and the speed distribution percentile.



For the times that the driver has stayed below the speed limit for that part of the road, the bar will be blue. When they stayed below the speed limit, but their speed was higher than 95% of other drivers on that same road, the bar will be yellow. This indicates that although they were not legally speeding, they were driving faster than what is normal for that road.

The minutes when the driver went above the speed limit will show as bright red. For the times the driver was above the speed limit and drove faster than 95% of other drivers who were also above the speed limit, the bar will be dark red. This indicates that they were speeding in excess of other drivers on the same roads who were also speeding.



The Driving Style League Table compares the driving style scores of all vehicles or drivers over the selected period of time. The "Driver" option will only produce results if the user employs Driver ID tags.

The report is accessed by the link on the "Driving Style" list.

Clicking on the link presents the user with the standard Quartix search screen.

In order to generate the Driving Style League Table, the user must select a "group" or choose to run the report on all groups, depending on how many vehicles are in their fleet.

The user can choose the "group by" option, and this can be by vehicle or by driver. The "driver" option will only display information if the system is set up to use Driver ID tags.

A start and end date for the reporting period must be entered; clicking on OK generates the report.



Clicking on the Driving Style League Table button from the main Configuration menu displays a page with the standard menu controls on the right hand side with an additional option to "Upload."

BACK: Returns the user to the previous page.

PRINT: Prints current page.

EXPORT: Allows the user to export the results into a CSV file

MENU: Returns the user to the Driving Style menu.



Notes

Driving style score is a score out of 100, with the lowest levels of acceleration and braking giving the highest score. Vehicles or drivers with the lowest scores are shown in red, better scores in amber and the highest scores in green.

i Click here for a full description of our Driving Style scoring methods.

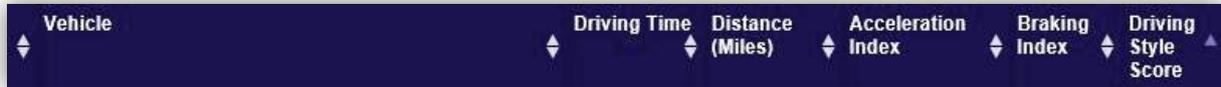
There is also a "notes" section that gives the user information on the scoring which is found on the league table, and explains the colour coding.

A "Click Here" link takes the user to a page with additional information on how Quartix driving style information is calculated.



In the top left hand corner of the "driving style league table, there is a header confirming the report and the customer for whom it has been generated.

Below this is the report period. These are the start and end dates that were entered on the selection screen.



The following headings are included as part of the driving style league table.

There are small triangles pointing up and down. This means that the user can sort the information by these headings and can change the order in which their information is presented on the table.

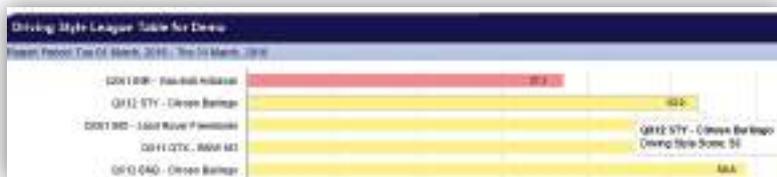
Vehicle	Driving Time (Hours)	Distance (Miles)	Acceleration Index	Braking Index	Driving Style Score
QW1183 - Virtual Antelope	10:41	175.1	50.0	50.0	50.0
QW1187 - Virtual Antelope	10:41	175.1	50.0	50.0	50.0
QW1188 - Virtual Antelope	10:41	175.1	50.0	50.0	50.0
QW1189 - Virtual Antelope	10:41	175.1	50.0	50.0	50.0
QW1190 - Virtual Antelope	10:41	175.1	50.0	50.0	50.0
QW1191 - Virtual Antelope	10:41	175.1	50.0	50.0	50.0
QW1192 - Virtual Antelope	10:41	175.1	50.0	50.0	50.0
QW1193 - Virtual Antelope	10:41	175.1	50.0	50.0	50.0
QW1194 - Virtual Antelope	10:41	175.1	50.0	50.0	50.0
QW1195 - Virtual Antelope	10:41	175.1	50.0	50.0	50.0
QW1196 - Virtual Antelope	10:41	175.1	50.0	50.0	50.0
QW1197 - Virtual Antelope	10:41	175.1	50.0	50.0	50.0
QW1198 - Virtual Antelope	10:41	175.1	50.0	50.0	50.0
QW1199 - Virtual Antelope	10:41	175.1	50.0	50.0	50.0
QW1200 - Virtual Antelope	10:41	175.1	50.0	50.0	50.0

Vehicle/Driver	The registration and description of the vehicle. If Driver ID tags are being used and "Group by Driver" is selected on the search screen, the user can order the table by "Driver".
Driving Time	The total driving time in hours for the report period.
Distance (Miles)	The total distance in miles for the report period.
Acceleration Index	The weighted acceleration score for the report period.
Braking Index	The weighted braking score for the report period.
Driving Style Score	The driving style score out of 100.

In the right hand corner, there is a chart symbol. Clicking on this allows the user to see the driving style scores in a chart format.



The chart is a graphical representation of the driving style scores. It lists them in ascending order, with the vehicles/drivers with the lowest driving style score at the top.



In the right hand corner, there is a table symbol. Clicking on this takes the user back to the driving style scores table.

Both the Daily Driver Briefing and the Driving Style League Table can be printed, and the Driving Style League Table can be exported to a CSV file.



Driving Style League Table for Drivers

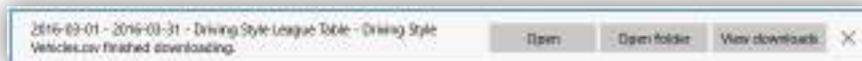
Report Period: Thursday 26 September 2016 - Friday 27 September 2016

Vehicle	Driving Time	Distance (Miles)	Acceleration (Miles)	Braking (Miles)	Driving Style Score
01 - 0000 JLA - Audi A8	100	1.0	11.0	10.0	40.7
02 - AC 120 CA - Ford F Focus	6047	1030.0	66.7	40.1	30.0
03 - 0200 000 - Volvo S80	17.00	1030.0	11.7	37.4	27.0
04 - 010000 00 - Peugeot Partner	6000	1030.1	11.0	40.7	30.0
05 - 020000 00 - Peugeot Partner	44.00	1030.1	10.0	37.3	26.7
06 - 0001071 - Citroen Berlingo	30.00	1030.0	11.1	35.4	19.2
07 - AB 171 BA - Peugeot 607 van	100.00	1030.0	11.0	30.0	10.0
08 - 0011000 - Citroen C5	10.00	1030.0	11.0	40.1	30.0
09 - 0200 00 - Ford Transit	10.00	1030.0	11.0	30.0	10.0
10 - AB 000 BA - Citroen C5	30.00	1030.0	10.0	30.1	10.0
11 - 0011000 - Citroen Berlingo	30.00	1030.0	10.0	35.4	19.0
12 - 0001 000 - Peugeot Partner	10.00	1030.0	11.1	37.1	24.0
13 - 0000 100 - Volkswagen	10.00	1030.0	10.0	30.0	10.0
14 - 0001 000 - Renault Kadaver	10.00	1030.0	10.0	30.0	10.0
15 - 0000 000 - Citroen C5	10.00	1030.0	10.0	30.0	10.0
16 - AB 000 BA - Citroen C5	10.00	1030.0	10.0	30.0	10.0
17 - 0000 000 - Citroen C5	10.00	1030.0	10.0	30.0	10.0
18 - 0000 000 - Citroen C5	10.00	1030.0	10.0	30.0	10.0
19 - 0000 000 - Citroen C5	10.00	1030.0	10.0	30.0	10.0
20 - 0000 000 - Citroen C5	10.00	1030.0	10.0	30.0	10.0

When the user clicks on the "print" button, the printing is controlled by the printing attributes of the web browser they are using, so Internet Explorer and Google Chrome will operate slightly different. The formatting on the report will be different to the one that is e-mailed.

If the driving style league table is exported, it will be to a CSV file. This is done by clicking on the "Export" button under the menu controls when in table view.

Once the user clicks on "export," they will shortly get a message at the bottom of their screen, giving them the option to "open," "open folder" or "view downloads."



The CSV file opens in Microsoft Excel and the data in this report can be reformatted to suit the user's needs. The colour-coding that is visible on the online report does not show in the exported report.

Vehicle	Driving Time	Distance (Miles)	Acceleration (Miles)	Braking (Miles)	Driving Style Score
1 - 010000 00 - Volvo S80	17.00	1030.0	11.7	37.4	27.0
2 - AC 120 CA - Ford F Focus	6047	1030.0	66.7	40.1	30.0
3 - 0200 000 - Volvo S80	17.00	1030.0	11.7	37.4	27.0
4 - 010000 00 - Peugeot Partner	6000	1030.1	11.0	40.7	30.0
5 - 020000 00 - Peugeot Partner	44.00	1030.1	10.0	37.3	26.7
6 - 0001071 - Citroen Berlingo	30.00	1030.0	11.1	35.4	19.2
7 - AB 171 BA - Peugeot 607 van	100.00	1030.0	11.0	30.0	10.0
8 - 0011000 - Citroen C5	10.00	1030.0	11.0	40.1	30.0
9 - 0200 00 - Ford Transit	10.00	1030.0	11.0	30.0	10.0
10 - AB 000 BA - Citroen C5	30.00	1030.0	10.0	30.1	10.0
11 - 0001000 - Citroen Berlingo	30.00	1030.0	10.0	35.4	19.0
12 - 0001 000 - Peugeot Partner	10.00	1030.0	11.1	37.1	24.0
13 - 0000 100 - Volkswagen	10.00	1030.0	10.0	30.0	10.0
14 - 0001 000 - Renault Kadaver	10.00	1030.0	10.0	30.0	10.0
15 - 0000 000 - Citroen C5	10.00	1030.0	10.0	30.0	10.0
16 - AB 000 BA - Citroen C5	10.00	1030.0	10.0	30.0	10.0
17 - 0000 000 - Citroen C5	10.00	1030.0	10.0	30.0	10.0
18 - 0000 000 - Citroen C5	10.00	1030.0	10.0	30.0	10.0
19 - 0000 000 - Citroen C5	10.00	1030.0	10.0	30.0	10.0
20 - 0000 000 - Citroen C5	10.00	1030.0	10.0	30.0	10.0

Hi Demo

Back

Print

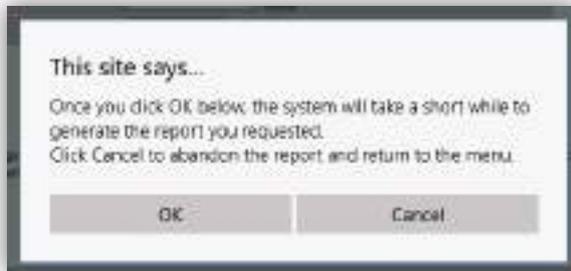
Export

Menu

The Monthly Speed Report allows the user to generate a report that highlights all the times that a vehicle has travelled over a defined speed.

For this report, the system does not consider the speed limits of the roads on which the vehicle has travelled, but just if the unit has recorded a speed over the set parameter for the report.

The Monthly Speed Report is generated using the standard Quartix search screens. The user has the option to select the group that they wish to run the report for or run it for all vehicles.



Once they have selected the vehicles, they need to define the speed parameter. The report will then show any speeds over this limit recorded by the vehicles selected. They also need to select the month for the report. This can either be done using the "last month" button or using the calendar control to select the last day of a different month.

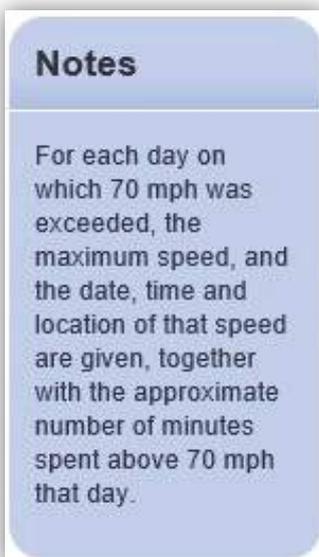
Clicking on OK will generate the message below. It advises the user that the report is being generated, but will take a short while. Clicking "OK" will bring up the report when it has compiled.

On the right hand side are the standard menu controls.

BACK—takes the user back to the previous page.

PRINT—prints the selected report.

Menu— takes the user back to the menu/search form for the report.



The report also has a "Notes" section. The box confirms that the report is showing speeds that have exceeded the speed limit that the user entered, along with the date/time and location that the speed was recorded. It also includes the approximate time the vehicle travelled over that speed limit.



At the top of the report, there is a header which reminds the user which report they are currently viewing and includes their account name and the date period for which the report has been run.

The Monthly Speed Report displays the following information in the main body of the report.

Reg. No. & Description: The registration and description of the vehicle.

Max Speed (mph): The maximum speed recorded on each day of the report time period above the set speed threshold.

Date: The date that the speed was recorded.

Time: The time the speed was recorded.

Mins in Day above Speed limit: The total minutes in the day that the vehicle went above the speed threshold.

Reg No. & Description	Max Speed (mph)	Date	Time	Mins in Day above Speed Limit
2000 BLS - 2000 BLS	85.0	04/01/2014	18:00	0:00
2001 BLS - 2001 BLS	85.0	04/01/2014	18:00	0:00
2002 BLS - 2002 BLS	85.0	04/01/2014	18:00	0:00
2003 BLS - 2003 BLS	85.0	04/01/2014	18:00	0:00
2004 BLS - 2004 BLS	85.0	04/01/2014	18:00	0:00
2005 BLS - 2005 BLS	85.0	04/01/2014	18:00	0:00
2006 BLS - 2006 BLS	85.0	04/01/2014	18:00	0:00
2007 BLS - 2007 BLS	85.0	04/01/2014	18:00	0:00
2008 BLS - 2008 BLS	85.0	04/01/2014	18:00	0:00
2009 BLS - 2009 BLS	85.0	04/01/2014	18:00	0:00
2010 BLS - 2010 BLS	85.0	04/01/2014	18:00	0:00
2011 BLS - 2011 BLS	85.0	04/01/2014	18:00	0:00
2012 BLS - 2012 BLS	85.0	04/01/2014	18:00	0:00
2013 BLS - 2013 BLS	85.0	04/01/2014	18:00	0:00
2014 BLS - 2014 BLS	85.0	04/01/2014	18:00	0:00
2015 BLS - 2015 BLS	85.0	04/01/2014	18:00	0:00
2016 BLS - 2016 BLS	85.0	04/01/2014	18:00	0:00
2017 BLS - 2017 BLS	85.0	04/01/2014	18:00	0:00
2018 BLS - 2018 BLS	85.0	04/01/2014	18:00	0:00
2019 BLS - 2019 BLS	85.0	04/01/2014	18:00	0:00
2020 BLS - 2020 BLS	85.0	04/01/2014	18:00	0:00

Reg No. & Description	Max Speed (mph)	Date	Time	Mins in Day above Speed Limit
2000 BLS - 2000 BLS	85.0	04/01/2014	18:00	0:00
2001 BLS - 2001 BLS	85.0	04/01/2014	18:00	0:00
2002 BLS - 2002 BLS	85.0	04/01/2014	18:00	0:00
2003 BLS - 2003 BLS	85.0	04/01/2014	18:00	0:00
2004 BLS - 2004 BLS	85.0	04/01/2014	18:00	0:00
2005 BLS - 2005 BLS	85.0	04/01/2014	18:00	0:00
2006 BLS - 2006 BLS	85.0	04/01/2014	18:00	0:00
2007 BLS - 2007 BLS	85.0	04/01/2014	18:00	0:00
2008 BLS - 2008 BLS	85.0	04/01/2014	18:00	0:00
2009 BLS - 2009 BLS	85.0	04/01/2014	18:00	0:00
2010 BLS - 2010 BLS	85.0	04/01/2014	18:00	0:00
2011 BLS - 2011 BLS	85.0	04/01/2014	18:00	0:00
2012 BLS - 2012 BLS	85.0	04/01/2014	18:00	0:00
2013 BLS - 2013 BLS	85.0	04/01/2014	18:00	0:00
2014 BLS - 2014 BLS	85.0	04/01/2014	18:00	0:00
2015 BLS - 2015 BLS	85.0	04/01/2014	18:00	0:00
2016 BLS - 2016 BLS	85.0	04/01/2014	18:00	0:00
2017 BLS - 2017 BLS	85.0	04/01/2014	18:00	0:00
2018 BLS - 2018 BLS	85.0	04/01/2014	18:00	0:00
2019 BLS - 2019 BLS	85.0	04/01/2014	18:00	0:00
2020 BLS - 2020 BLS	85.0	04/01/2014	18:00	0:00

Clicking on the plus symbol next to the vehicle registration expands that date and displays the speeds recorded above the speed threshold and the times that they were recorded.

Clicking on the minus symbol hides the expanded information.



The Monthly Speed Report also allows the user to see where any high speeds have been recorded.

The user can either click on the speed or the time to see the location of the maximum speed recorded. It's also possible to do this if the user has expanded the daily information.



Clicking on the "back" button will take the user back to the Monthly Speed Report.



Clicking on the "Print" button allows the user to print the Monthly Speed Report.

Printing is controlled by the printing attributes of the web browser being used, so Internet Explorer and Google Chrome will operate slightly differently.

Whatever is visible on the online report when the user prints is what will show on the printed version, so if the user has expanded some of the days, then this expanded information will be included.

There is no way to expand all the information at once and have it all print out.



11/10/2016 Monthly Speed Report for Demo

Notes
For each day on which 65 mph was exceeded, the maximum speed, and the date, time and location of that speed are given, together with the approximate minutes spent above 65 mph that day.

Monthly Speed Report for Demo Report Period: 01/09/2016 - 30/09/2016

Reg No. & Description	Max Speed (mph)	Date	Time	Mins in day above 65 mph
AC 555 CA - Peugeot Expert	77.1	07/09/2016	16:47	17 mins
AC 555 CA - Peugeot Expert	72.1	11/09/2016	22:37	49 mins
AC 555 CA - Peugeot Expert	72.1	12/09/2016	11:27	120 mins
AC 555 CA - Peugeot Expert	72.1	16/09/2016	17:38	121 mins
AC 555 CA - Peugeot Expert	71.5	23/09/2016	22:56	45 mins
AC 555 CA - Peugeot Expert	72.1	25/09/2016	21:49	54 mins
AC 599 DA - Nissan Primastar	65.9	02/09/2016	18:01	1 mins
AC 599 DA - Nissan Primastar	65.3	08/09/2016	15:26	1 mins
AC 599 DA - Nissan Primastar	85.8	10/09/2016	15:34	12 mins
AC 599 DA - Nissan Primastar	68.4	12/09/2016	19:00	1 mins
AC 599 DA - Nissan Primastar	83.3	13/09/2016	09:06	100 mins
AC 599 DA - Nissan Primastar	69	16/09/2016	16:13	1 mins
AC 599 DA - Nissan Primastar	83.3	17/09/2016	11:58	29 mins
AC 599 DA - Nissan Primastar	87.6	19/09/2016	16:33	20 mins
AC 599 DA - Nissan Primastar	78.9	22/09/2016	08:35	33 mins
AC 599 DA - Nissan Primastar	81.4	24/09/2016	10:55	112 mins
AC 599 DA - Nissan Primastar	75.8	27/09/2016	08:02	31 mins
AC 599 DA - Nissan Primastar	75.8	28/09/2016	14:14	20 mins
AC 599 DA - Nissan Primastar	75.8	30/09/2016	14:52	12 mins
AC 698 BT - VW Passat	74.6	05/09/2016	09:08	12 mins
AC 698 BT - VW Passat	78.3	06/09/2016	13:36	4 mins
AC 698 BT - VW Passat	75.8	07/09/2016	06:40	1 mins
AC 698 BT - VW Passat	107.5	08/09/2016	20:59	126 mins
AC 698 BT - VW Passat	65.3	09/09/2016	19:16	1 mins
AC 698 BT - VW Passat	103.2	10/09/2016	22:58	88 mins
AC 698 BT - VW Passat	110	11/09/2016	00:04	51 mins
AC 698 BT - VW Passat	98.2	13/09/2016	10:38	27 mins
AC 698 BT - VW Passat	84.5	14/09/2016	08:01	63 mins
AC 698 BT - VW Passat	75.8	15/09/2016	23:19	5 mins
AC 698 BT - VW Passat	81.4	16/09/2016	09:56	55 mins

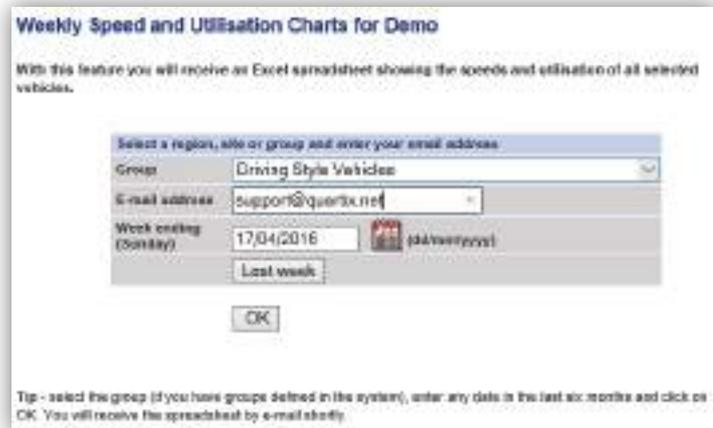
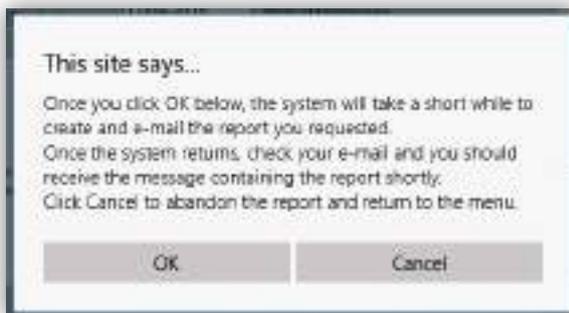
The Weekly Speed and Utilisation Chart provides a graphical representation of the speeds that the vehicles has recorded for the week. It also has a tab that shows the utilisation of the vehicle for the same time period.

The report is e-mailed to the user as an Excel spreadsheet.

The Weekly Speed and Utilisation Chart is generated using the standard Quartix search screens. The user has the option to run the report for a group or for all vehicles.

Once they have selected, they need to enter the email address to which they want the report sent.

The user needs to select a "week ending" for the report. This can either be done using the "last week" button or by using the calendar controls to select the last day of a different week.

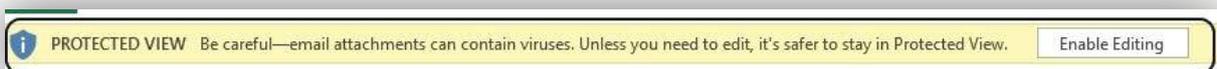
Clicking on "OK" brings up a message, advising the user that the report is being generated, but will take some time. Clicking on "OK" again will display the report when it has compiled.

When users receive the Weekly Speed and Utilisation Chart via email, Quartix advises that it be saved either locally to the user's PC or to a network share drive, before it is opened.

Being an Excel spreadsheet, the user will need the full version of Microsoft Excel in order to view the information within; it will not display correctly in an Excel Viewer.



When the user opens the spreadsheet, they may be prompted with a warning message about the spreadsheet, advising that it is being opened in protected view. The user must click on this message in order to open the spreadsheet and display all chart information.



Once the Weekly Speed and Utilisation chart is opened, it will, by default, be open on the "Speed Charts" tab.

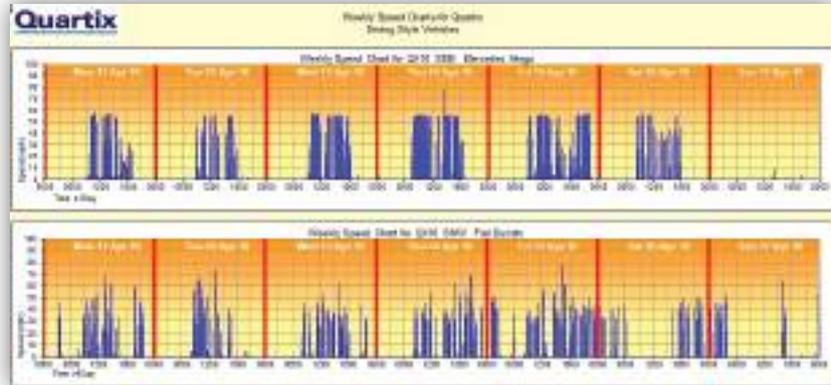
The other tab available at the bottom of the spreadsheet is the "Utilisations Charts" tab.



Under the “Speed Charts” tab, there will be a section for each vehicle in the group for which the report has been generated.

The chart is split into the days of the week and the speeds recorded are displayed in miles per hour across each day. These are the maximum speed events that have been recorded for a six minute time period.

This gives the user a visual indication of the speeds at which their vehicles are travelling and allows them to see any variations in speed across the vehicles in that group.



This report does not take into account the speed limits of the roads that the vehicles are travelling on. It is just a representation of the speeds that the units have recorded.

The vehicles are listed so that the user must scroll down the spreadsheet to see all information for the different vehicles in the group.

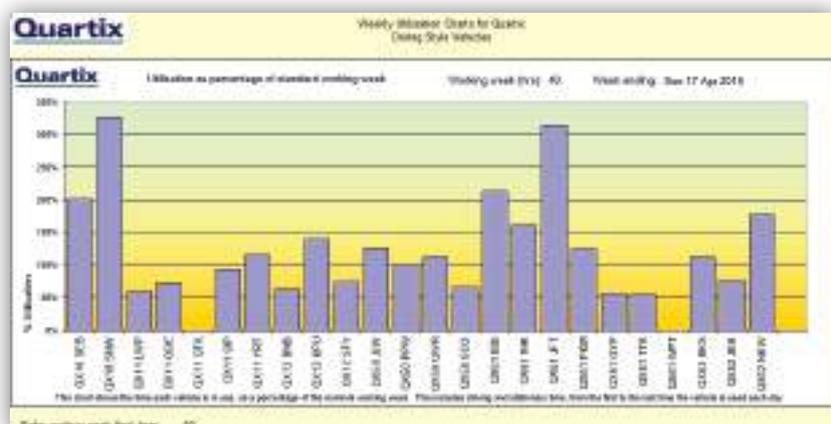
Under the “Utilisation Charts” section, there are three different charts:

- Utilisation as a percentage of the standard working week
- Travel time within a working day
- Travel time as a percentage of the total week

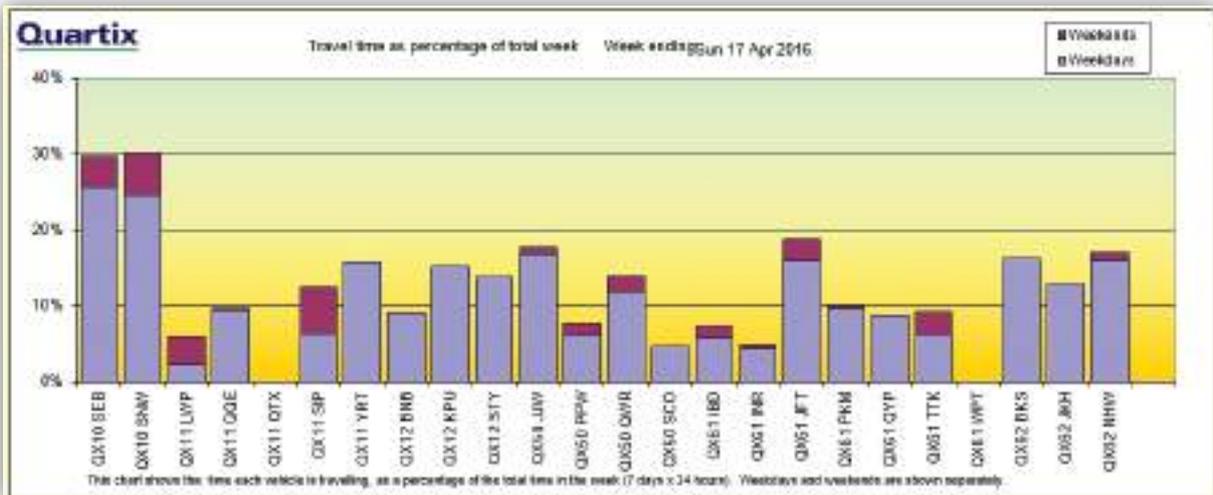
For the utilisation chart, users are able to change the hours in their working week. By default, this will be set to 40 hours, but this can be changed on the report as required.

Working week (hrs): 40

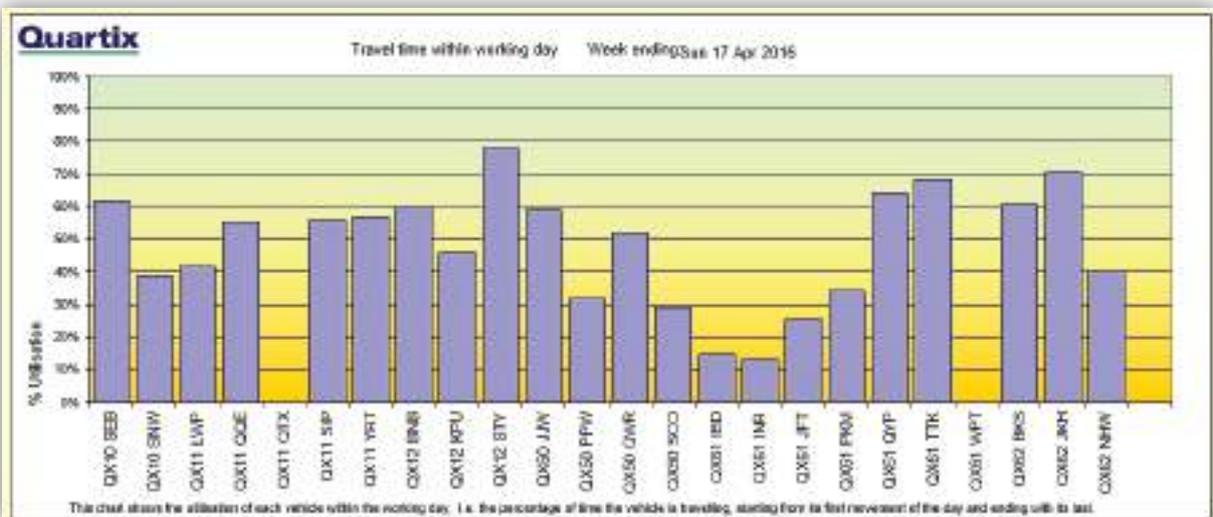
The utilisation chart gives the user a graphical representation of how much their vehicles are being utilised. In the example above some vehicles are being utilised often and others have a low rate of usage. The user can look into this further and investigate whether some of the tasks being carried out by the highly-utilised vehicles can be passed on to the under-utilised ones or determine if the vehicles with very low utilisation are actually needed.



This chart shows the utilisation of each vehicle within the working day, i.e. the percentage of time that the vehicle has spent travelling, starting from its first movement of the day and ending with its last.



This chart shows the time each vehicle has travelled, as a percentage of the total time in the week (7 days x 24 hours). Weekdays and weekends are shown separately.



Through the Edit Company Details menu option, users are able to amend some of the information that displays on the Quartix website when they log in.

It is important to note that this information only changes what the user sees when they first log on to the system. It does not make any changes to the sales and invoicing database. If the user changes their base address, they must contact Quartix directly to have these details adjusted for invoices and sales purposes.

Click on any row to select a report

> Edit Company Details

Notes

Please note - Changing your company details on this page changes the data that is displayed on the Quartix site, but it does not change our customer and invoicing database. Contact us directly if you change name, address or contact details.

This information is presented as a reminder in the Notes box on the "Edit Company Details" form.

Changes to the customer's base address should be advised in an e-mail to enquiries@quartix.net, to be certain that the Quartix sales and invoicing database is updated.

As with all forms on the Quartix website, there are the standard menu controls of "BACK", "PRINT" and "MENU" for this function.

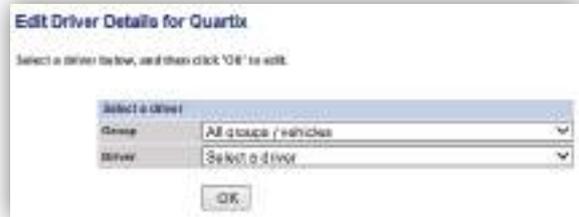
Edit company details for Quartix

Change the required details below and click 'Update' to save

Subscriber ID	Quartix
Company / Organisation	Quartix Limited
Address 1	Wellington House
Address 2	East Road
Town / City	CAMBRIDGE
County / State	
Postcode	CB1 1BH
Main telephone number	0870 013 6663
Main fax number	01223-213003
Main email address	enquiries@quartix.net

Once the user has made their desired changes, they must click on the "Update" button to confirm them. Clicking on "Cancel" will take the user out of the Edit Company Details page.

When the user clicks on the menu option "Edit Driver Details," they are presented with a selection menu. From there, they can filter for the driver whose details they wish to amend. If required (for example, if the company has a large number of drivers) the user can filter by "Group" first. The drivers listed will be those that are in the selected group. The driver can also be selected from the complete list of drivers using the "Driver" drop down box. Clicking on "OK" will display the form to edit driver details.



The usual menu controls can be found on the right hand side of the screen. These take the user "BACK" to the previous page, allow them to "PRINT" the current screen, or to return to the "MENU".

Once the user has made their changes, they must click on "Update" in order to commit those changes to the Quartix database. Clicking on "Cancel" or moving on to another Quartix menu option without clicking "Update" will prevent the changes from being saved.

If a user makes a mistake while editing, they can go back and correct it. If they want to revert back to the original settings, clicking on "Cancel" will do so.



Although many details can be changed by the user, the following three fields cannot be changed and are only there to give the user information about the Driver ID tag that is set up on the system.

- **Driver ID:** The ID number for the driver.
- **Tag Colour:** The actual colour of the physical tag.
- **Tag ID:** The tag's ID code (also known as "short tag ID"). This is the last 4 characters of the number/character list as outlined in red on the below image.



Below are the fields that can be changed by the user.

Driver Name	The name of the driver to whom the tag has been allocated.
Shift Start Time	The start time for the day on the reports. 00:00 means that day runs from midnight to midnight.
Group ID 1	The first group in which the driver is listed.
Group ID 2	The second group in which the driver is listed.
Group ID 3	The third group in which the driver is listed.
Weekly Spreadsheet Enabled	Turns the weekly Driver ID Report on or off.
Time of Day to Generate Report	The time that the weekly report is generated.
Receive Report Every	The day that the user will receive the weekly report. If set for a Monday, the report will be for the previous seven days.
Email To	The email address (or addresses) where the report will be sent.
Email CC	The email address (or addresses) that will be CC'ed on the report email.

The Edit Group Details form allows the user to move vehicles and drivers between groups. A vehicle or driver can be in up to three groups. Users should be aware that the grouping is not hierarchical in nature. Clicking on the drop down menu will list all the groups that are set up on the user's account. Clicking "OK" takes the user through to edit group details.



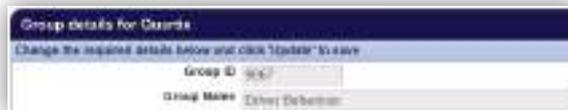
The standard menu controls are at the top right hand corner of the Edit Group Details screen.



BACK: Takes the user back to the previous page

PRINT: Prints the current page

MENU: Returns the user to the menu for that section



After selecting a group, the Edit Group Details screen will display some information at the top of the form.

This confirms the account and reminds the user to click "Update" in order to save any changes. The "Update" and "Cancel" buttons are found at the bottom of the form.

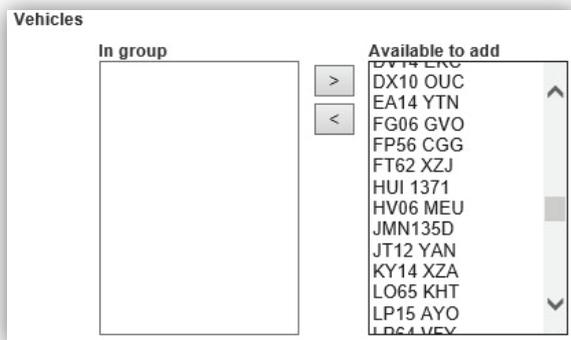
There will also be two fields that are greyed out, meaning that the user cannot change the following information:

- **Group ID:** The unique ID number for the selected group.
- **Group Name:** The name of the group that has been selected to be edited. This cannot be changed via this form but if it must be updated, the user will need to e-mail the Support team at support@quartix.net, advising them of the change.

The main body of the Edit Group Details form is split into three areas:

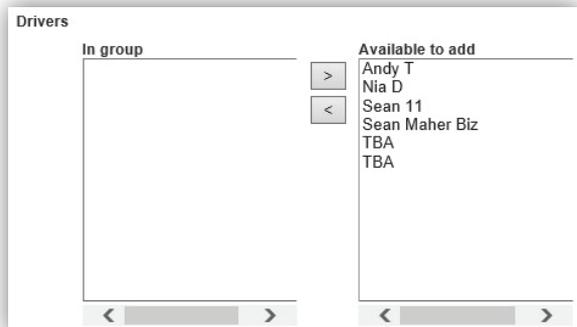
Vehicle

This section lets the user move drivers in and out of the group being edited. As with the vehicles section, this is done by clicking on the driver to be moved, then the left chevron to move them into the group or the right chevron to move them out of the group.



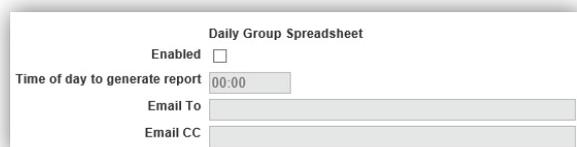
Drivers

This section lets the user move any drivers in and out of the group being edited. As with the vehicles section, this is done by clicking on the driver(s) to be moved and then clicking on the left chevron to move them into the group and the right chevron to move them out of the group.



Daily Group Spreadsheet

This is where the user can turn on the option to send out a daily Excel spreadsheet that contains trip information for the vehicles that are set up for the specific group. The spreadsheet also contains summary information for the group's vehicles.



The user will turn the report on and then set the time they wish to receive the spreadsheet and the e-mail address(es) where it will go in the "Email To" and "Email CC" fields.

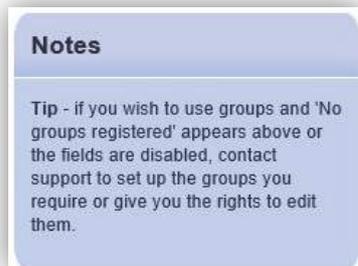
The Edit Standard Vehicle Details form allows users to customise the Quartix system so that it is more specific to their business. Once the user clicks on this option from the main Configuration menu list, they are presented with a form that lets them apply filters to find the vehicle they wish to amend. As with other selection forms, they can apply a "group" filter first and then select a vehicle from that list or they can go directly to the "vehicle" list.



The notes section gives the user a tip regarding what to do if there are no groups registered on their account.

If the user has any issues with the configuration page or anything else on the Quartix website, they should send an email to the Support team at support@quartix.net.

Once the user has selected the vehicle they wish to edit and clicked on "OK," they will be on the Edit Standard Vehicle Details form. At the top, there is a reminder to click "Update" after making any changes. There will also be the following two fields that cannot be changed:



- **Vehicle ID:** The unique ID number for the vehicle being edited.
- **Registration Number:** The registration for the vehicle. If changes are needed, the user must e-mail the Support team.



Description	Allows the user to change the vehicle's description such as the make/model.
Shift Start Time	The time at which the shift for each day starts. By default, this is set to run from midnight to midnight, but the user could, for example, set a shift to run from 07:00 through to 07:00 the following day.
New Trip Threshold	The distance in metres that a trip has to cover before it will show on the Daily Vehicle Log. This is typically set to 250m in order to filter out small movements for parking or loading. This can be adjusted if required.
Show Stops with Ignition On	This setting either turns on or off the option to show stops when the vehicle's engine is still running.
Estimated Fuel Consumption	This is set in mpg and is the average fuel consumption that the vehicle should be able to achieve. As a default, this will be 25 mpg, but can be adjusted.
Group ID 1	Allows the user to add a vehicle to a group.
Group ID 2	Allows the user to add a vehicle to a second group.
Group ID 3	Allows the user to add a vehicle to a third group.

Description	Mazda 5 Sport Venture Limited Edition
Shift Start Time	00:00
New Trip Threshold	0 metres
Show Stop Events	<input checked="" type="checkbox"/>
Estimated consumption	38.0 mpg
Group ID 1	12543: Ian Test
Group ID 2	0: Select a group
Group ID 3	0: Select a group

Live Tracking	
Initials	TCSV10
Symbol	Purple saloon
Text Colour	<input type="text"/> Restore Default Text Colour <input type="checkbox"/>
Text Size	1

Initials	Allows the user to add initials to overlay on the vehicle icon rather than a number. A limit of seven letters is recommended.
Symbol	The vehicle icon that is seen on the live tracking map and mobile app. This is selected from a pre-designed list, but customers can request their own bespoke icons.
Text Colour	The colour of the text that overlays the vehicle icon.
Restore Default Text Colour	Allows the user to reset the text colour back to the default setting.
Text Size	The size of the text that overlays the vehicle tracking icon.
Enabled	Turns the daily vehicle log on or off.
Time of Day to Generate	The time of the day that the report is generated.
Email To	The email recipients who will receive the daily logs.
Email CC	The email recipients who will be copied in on the emailed logs.

Daily Vehicle Log

Enabled

Time of day to generate report

Email To

Email CC

Weekly Spreadsheet

Enabled

Time of day to generate report

Receive report every

- Monday
- Tuesday
- Wednesday
- Thursday
- Friday
- Saturday
- Sunday

Email To

Email CC

Enabled	Turns the weekly spreadsheet on or off.
Time of Day to Generate Report	The time of the day that the report is generated.
Receive Report Every	The day the user wants the report to be sent. It will contain data for the previous seven days.
Email To	The email recipients who will receive the weekly logs.
Email CC	The email recipients who will be copied in on the emailed logs.

The Edit User Preferences configuration option allows the administrator of an account to make selective changes in order to customise their Quartix experience.

After clicking on Edit User Preferences from the main configuration menu, the user is presented with a drop down list where they can select the user name that they wish to change. The list will remind them of the type of user that they are; these have been listed below:

User Type	Description
SubscriberUser	Standard Quartix user. They have access to all vehicles and features as controlled by the customer's chosen tracking package.
SubscriberAdmin	Quartix Admin user. Access rights are controlled by the package the customer is set up on as per SubscriberUser account. The additional features for the admin account are the ability to add customised locations and also to access to the Configuration section of the website.
GroupManager	Standard user account for a group-specific user. These users have access to the Quartix features, but are limited to just specific groups of vehicles.
GroupAdmin	Same access rights as the GroupManager account, but can also access admin features under Configuration for the group or groups to which they have access.
GroupMember	This account is restricted in that it can only view one specific vehicle. Typically, there is only access to live tracking, daily logs and route maps. These accounts are commonly used by the driver of a vehicle.
SuperUser	These accounts are used typically for large corporate customers who have multiple accounts set up with Quartix. They may have a user at their head office who needs a single login to see all the vehicles across the whole fleet. This account also gives them access to all sites that are set up and all vehicles under each site.

The usual menu controls on in the top right hand corner of the "Edit User Preferences" screen are present here.

BACK: Takes the user back to the previous page.

PRINT: Prints the page the user is currently on.

MENU: Returns the user to the menu for the current section.



At the top of the Edit User Preferences form is the standard report header, confirming the customer account that is being accessed.



It includes a reminder that after any changes are made, the user must click on the “update” button, otherwise nothing will be saved to the database.

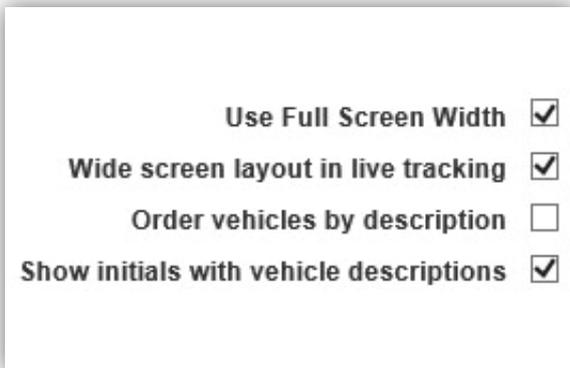


Just under the report header there are three fields that are greyed out and cannot be changed.

- Person ID:** The unique ID number for this user.
- User Name:** The user name that is entered in order to log on to the Quartix website.
- User Type:** The type of user, as outlined previously.



These are the parameters that the user is able to change.



Use Full Screen Width	Enabled by default and means that a large map is used on the live tracking screen and any other map screens.
Wide Screen Layout in Live Tracking	Rather than the table of live tracking information being under the live tracking map, it will be displayed on the right hand side of the live tracking map.
Order Vehicles by Description	By default the system displays vehicles in the drop down menus and live tracking in alphabetical registration order. This option changes that to be by description.
Show Initials with Vehicle Descriptions	By default, if the user sets up vehicle initials so they replace the numbers on the live tracking vehicle icons, they will only show on the vehicles. Checking this option means that they will also show in the detail table on live tracking in the vehicle description field.

The Edit Vehicle Management Data form allows users to customise the Quartix system so that it is more specific to their business.

Once the user clicks on this option from the main "Configuration" menu list, they are presented with a form that allows them to apply filters to find the vehicle they wish to amend.

As with other selection forms, they can apply a "group" filter first and then select a vehicle from the filtered list or go directly to the "vehicle" list without applying a group filter.

Edit vehicle management data for Quartix

Select a vehicle below, and then click 'OK' to edit its details.

Select a vehicle	
Group	All groups / vehicles
Vehicle	Select a vehicle

OK

The usual menu controls are in the top right hand corner of the "Edit Group Details" screen.

BACK: Takes the user back to the previous page.

PRINT: Prints the page the user is currently on.

MENU: Returns the user to the menu for the section they are viewing.

At the top of the Edit Vehicle Management Data form is the standard report header, this will confirm the customer account that is being accessed.

It includes a reminder that after the user makes any changes, they need to click on the "update" button otherwise nothing will be saved to the database.

The information that is entered on the Edit Vehicle Management Data form is shown on the MOT/Service Date report that is accessed from the Fleet Management section of the Quartix website. This information can also be found in the main body of the weekly Excel email that is sent out to users.



The Edit Vehicle Management Data form contains a number of parameters that can be amended and others that cannot. Those that cannot are shaded in grey.

Vehicle ID	The unique ID number for the vehicle.
Registration Number	The registration number of the vehicle being amended.
Quartix Odometer Estimate	The calculated Quartix odometer estimate.
Quartix Estimate Date and Time	The date and time that estimate was calculated.

The screenshot shows the following form fields and values:

- Vehicle ID: 477483
- Registration Number: DV14
- Units for odometer readings: Miles, Kms
- Quartix odometer estimate: 16451 Miles
- Quartix estimate date and time: 13/03/2016 05:22
- Manual odometer reading: 175 Miles
- Manual reading taken (date and time): 12/04/2014 00:00 (Today button)
- Next service due (date): [Empty]
- Next service due (odometer): 1500 Miles
- Insurance renewal (date): 05/04/2015
- Road tax renewal (date): 28/02/2015
- Next MOT due (date): 28/02/2017
- Milestone 1 Name: [Empty]
- Milestone 1 (date): [Empty]
- Milestone 2 Name: [Empty]
- Milestone 2 (odometer): 0 Miles

Units for Odometer Readings	By default, all units of distance are recorded in miles, but this option allows the user to change this setting as required.
Manual Odometer Reading	The odometer reading that the user enters. This should be reviewed and updated every few months.
Manual Reading Taken	The date and time that the odometer reading from the vehicle was entered. Clicking on the "Today" button enters the current date.
Next Service (Date)	The date that the vehicle's next service is due.
Next Service Due (odometer)	The odometer reading at which the vehicle's next service is due.
Insurance Renewal (Date)	The insurance renewal date for the vehicle.
Road Tax Renewal	The road tax renewal date for the vehicle.
Next MOT Due	The MOT due date for the vehicle.
Milestone 1 Name	The name of the first customisable milestone that is triggered by a date.
Milestone 1 (Date)	The due date of the first milestone.
Milestone 2 Name	The name of the second customisable milestone that is triggered by odometer reading.
Milestone 2 (Odometer)	The odometer reading that triggers this milestone.

The Edit Vehicle Privacy Details form allows users to change how and when their units report. This feature is typically used when the driver of the vehicle has use of it for private trips. Setting the privacy controls means that during the monitoring period all trip information is recorded, but outside the monitoring period only the distance that the vehicle has travelled and the location names (not positional information) of any "stop" or "ignition-off" events are recorded.

Once the user clicks on this option from the main "Configuration" menu list, they are presented with a form that allows them to apply filters to find the vehicle they wish to amend.

As with other selection forms, the user can apply a "group" filter first and then select a vehicle from the filtered list or go directly to the "vehicle" list without applying a group filter.

Edit vehicle privacy data for Quartix

Select a vehicle below, and then click 'OK' to edit its details.

Select a vehicle	
Group	All groups / vehicles
Vehicle	DV14 , Mazda 5 Sport Venture Limited Edition

OK

The usual menu controls are in the top right hand corner of the Edit Vehicle Privacy Details screen.

BACK: Takes the user back to the previous page.

PRINT: Prints the page the user is currently viewing.

MENU: Returns the user to the menu for the section they are viewing.

Hi Quartix

- Back
- Print
- Menu

At the top of the Edit Vehicle Privacy Details form, there is the standard report header, confirming the customer account that is being accessed.

It will include a reminder that after the user makes any changes, they must click on the "update" button otherwise nothing will be saved to the database.

Edit vehicle privacy details for Quartix
Change the required details below and click 'Update' to save

Update Cancel

At the top of the Edit Vehicle Privacy Details form, there will be two greyed-out boxes. As on other forms, the information in these fields cannot be changed.

Vehicle ID: The unique ID number for the vehicle.
Registration Number: The vehicle's registration number. If the registration number is incorrect, the user should email support@quartix.net.

Vehicle ID	477483
Registration Number	DV14

There are three different types of vehicle monitoring that can be adjusted with the privacy controls.

Standard 24 hour monitoring:	The default for all vehicles. At this setting, the system will record all vehicle movements 24 hours a day, seven days a week.
Privacy - Defined working hours only:	This option allows the user to define the core hours that the vehicle is monitored. Outside of these hours, only the vehicle's mileage and the location names for the stops and ignition off points are recorded. The user will not be able to live track the vehicle during the privacy period.
No monitoring - holidays, etc:	If this option is selected, the only information that will ever be recorded is the vehicle's mileage and the location names for any ignition-off and stop events. You will not be able to live track the vehicle in this mode.

The user can select the kind of monitoring they want for a specific vehicle with these controls. If the user selects Privacy, they need to define the core working hours for the vehicle.

These will be the hours of operation for weekdays, Saturdays and Sundays.

For weekdays, the same hours will apply for all five days. The user will define when the monitoring starts and ends. Anything recorded outside those hours will be classified as private.

Monitoring Mode	<input type="radio"/> Standard - 24 hour monitoring <input checked="" type="radio"/> Privacy - defined working hours only <input type="radio"/> No monitoring - holidays etc.
Start monitoring (weekdays)	08:00
End monitoring (weekdays)	17:00
Start monitoring (Saturdays)	09:00
End monitoring (Saturdays)	13:00
Start monitoring (Sundays)	00:00
End monitoring (Sundays)	00:00

In the above example, monitoring is active between 08:00 and 17:00 on weekdays, 09:00 and 13:00 on Saturdays and all of Sunday is in privacy mode.

Quartix **GEOFENCING POLYGON DRAWING TOOL**

One of the many features of the Quartix system is the ability to create a geofencing polygon, which can be set up so that an alert is sent when vehicles move in and out of that defined area. These polygons can either be zones that a vehicle must be in at certain times or zones they cannot go in during certain times. These are called “mandatory” and “prohibited” zones.

Polygons are used to define larger areas or areas that are not a standard shape. Geofencing alerts can also be triggered in a customised location. These tend to be smaller, more specific areas which are used to replace the street name on a report or in live tracking. Polygons do not do this, as they are typically a larger area.

When the user clicks on the Draw Geofencing Polygon Tool from the main configuration menu, they are presented with an option screen that includes a map. The map's default setting centres it on London. The user can zoom in or out by using either the Google controls in the bottom right hand corner or their mouse, as well as clicking and dragging the map about to display their desired area.



The usual menu controls are in the top right hand corner of the “Geofencing Polygon Drawing Tool” screen.

BACK: Takes the user back to the previous page.

PRINT: Prints the page currently being viewed.

MENU: Returns the user to the menu for the current section.



Notes

This tool allows the creation of new polygons for geofencing and to view or edit polygons that have been created previously.

To view a polygon, please use the drop-down box. The 'Reset' button clears the map and restarts the process.

To edit a polygon, select from the drop-down menu, amend as required and save.

If several similar polygons are required, please select the polygon that has the closest desired shape and size. Enter a new name for that polygon, amend as necessary and save.

On the right hand side of the map, there is a “Notes” section that gives the user some detailed information on how to use the “Geofencing Polygon Drawing Tool”.

To create a new polygon, the user should navigate to the required location and click the desired start point. A marker will appear. They will draw their polygon by clicking around the area it should cover. The “Remove Point” button will remove the last marker created. To edit a marker’s position, the user will click and drag to the correct location. Before saving, the user should enter a name for the polygon in the appropriate field. This tool will then clear and await the next polygon.

Quartix GEOFENCING POLYGON DRAWING TOOL

If the user wishes to edit an existing polygon, they need to load that polygon onto the map first. This is done by selecting the polygon from the "Load Polygon" drop down list. Once they have clicked on it, the points will display on the map. The user can then implement the changes.

Reset

Clears anything that is currently selected and sets the form back to its default state.

Remove point

Removes the last point that the user created. There is no option to click on a specific point and remove it. Users can see which number a point is by hovering over the point.

When clicking on the map to add extra points to the polygon, they will be listed in the order they were added. If the user needs to add a point, they must move all the points after the point they wish to add, create it and then add the extra point to the end.

Saving

The user must always remember to save their polygons, as it is not possible to retrieve them if not saved.

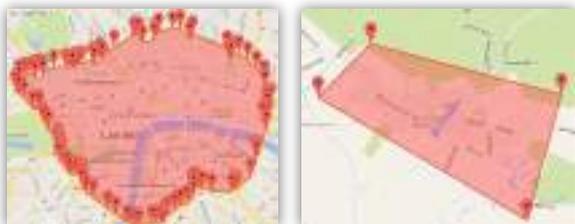
The "Reset," "Save," and "Remove Point" buttons are under the header and above the notes. The fields for giving the polygon a name or selecting an existing polygon for editing are next to them.

This site says...

Please add a polygon name

OK

Once the user has given their polygon a name and clicked on "save," they will see a message confirming that it has been successfully saved.



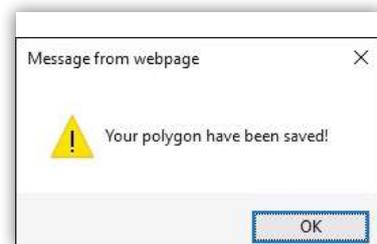
As seen here, polygons can be simple or complex.

When the polygon has been saved, the user must email support@quartix.net to set up the geofencing parameters for that particular area. The following information must be provided:

- The name of the polygon
- Type of zone: mandatory or prohibited
- Hours of operation
- Mobile numbers to receive alerts
- E-mail address to receive alerts
- Which vehicles fall under the zone's parameters



Once the user has finished creating their polygon, it must be saved. Before doing so, it must be given a name. If the user does not name the polygon, they will receive a prompt to do so before proceeding.



The Manage Custom Locations feature allows the user to add and maintain large numbers of custom locations. This gives the user greater flexibility to customise sites that are routinely visited by their fleet on the Quartix system.

After clicking on the "Manage Custom Locations" button from the main configuration menu, there are the usual menu controls on the right hand side, with an additional option of "upload."

BACK: Takes the user back to the previous page.

PRINT: Prints the page currently being viewed.

UPLOAD: Takes the user to the upload section of "Manage Custom Locations."

MENU: Returns the user to the menu for the current section.



In the main body of the page, the user will see all existing customised locations.

Manage Custom Locations for Quartix							
Select a location below to open the edit location screen							
Show Expiry		Date Selected					
<input type="checkbox"/>	Location Name	Postcode	Latitude	Longitude	Expiry Date	Risk (points)	Delete
<input type="checkbox"/>	AM Service		53.3543	-3.2157		100	✗
<input type="checkbox"/>	Andy Home Office		53.5212	-2.6858		100	✗
<input type="checkbox"/>	ANDY OFFICE		53.5704	-2.9485		250	✗
<input type="checkbox"/>	Aragon Racing Circuit		41.8803	-0.2126		300	✗
<input type="checkbox"/>	Ashford hospital		51.4448	-0.4758		100	✗
<input type="checkbox"/>	Ashlea Home		52.5766	-3.1826		50	✗
<input type="checkbox"/>	Barnett Home		52.9366	-3.5581		100	✗
<input type="checkbox"/>	Bay 1		51.5105	-0.1381		100	✗
<input type="checkbox"/>	Becker		52.5236	-1.0082		100	✗
<input type="checkbox"/>	BP		53.8744	-2.9835		100	✗
<input type="checkbox"/>	Can Du Cawpella, Tywyn		52.8124	-4.1180		300	✗
<input type="checkbox"/>	Churchlake School		52.5384	-3.0738		100	✗
<input type="checkbox"/>	G.F. Grigg		52.9090	-3.3753		100	✗

On the main page, the customer can manage their existing customised locations.

At the top, there are buttons that perform specific actions:

Show Expired: Shows all locations that have passed an expiration date.

Delete Selected: Deletes any of the customised locations that have been ticked in the boxes on the left hand side of the location names.

If the user does not click on the "Delete Selected" button or if they click on any other method to delete a location, the system will issue a warning to make certain the user actually does want to delete the location.

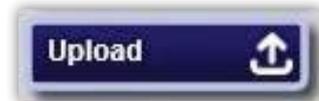
Hovering over the location's name (in this example, AM Service) changes the mouse's icon to a small hand with a finger pointing up. The location's name will become underlined and this means that the user can click on it.

Doing so will bring up a form that allows the user to change information about that customised location. If changes are made, the user must click on "save".



Location ID	Greyed-out and cannot be changed.
Location Name	Able to be changed and can be up to 100 alphanumeric characters.
Latitude	Latitude value for the location. To change this, the user could look at Google maps. Right clicking on the location and selecting "what's here" will give Latitude and Longitude information.
Longitude	Longitude value for the location. See above for finding new values.
Postcode	The location's postcode.
Maximum Radius	The radius around the latitude and longitude that will still be considered as the location.
Expiry Date	Date that the location should expire.

If the user wishes to upload a batch of new customised locations that are located on their own company database, the Quartix system allows for this.



The user must click on the “upload” button from the main menu controls on the right hand side of the form.

This will change the form to display the following information.

Notes

The spreadsheet you upload should always contain a column headed “address”.

Additionally, it can also contain columns headed: name, postcode, radius, latitude & longitude.

The Expiry Date is used only to determine when locations can be deleted. Expired locations will still be used for the start and end of trips until they are deleted.

There will be notes on the right hand side giving instructions on what needs to be in the Excel spreadsheet that will be used to upload the customised locations.

There is also information explaining how the “expiry date” is currently used.

In the simplest format, the Excel spreadsheet that will be used to upload the customised locations needs two columns:

Name: The customised location name as the user wants it to show on the system.

Address: The full address for the location including the house/building number and postcode.

Name	Address
TESCO5 NEWTOWN	Pool Rd. Newtown SY16 1DW
MORRISONS NEWTOWN	Pool Rd. Newtown SY16 1AH
LIDL NEWTOWN	Liasidlos Rd. Newtown SY16 1ET
SPAR NEWTOWN	41 Broad St, Newtown SY16 2AY

Once the user has uploaded their Excel spreadsheet in the correct format, they must click on the “browse” button. This will bring up another window that allows them to search their computer for the spreadsheet file. Once found, they must click “open.”



If there is any issue with the uploaded spreadsheet such as invalid columns, the user will see a warning message as shown below. These will need to be corrected before the user can continue with the upload.

Once there are no errors, the user must enter the “expiry date” and then click the “upload” button.

After the spreadsheet has been read, there will be a change to the notes. This will confirm that the uploaded spreadsheet has been read and that the user can complete the import.

Notes

The uploaded spreadsheet has now been read & it's contents displayed on the left. Please click "import" if you wish to continue.

Before the user completes the import, they should review the locations. They may wish to adjust the maximum radius. By default, it is set to 100m. There may be some locations that are very close together and it would be worth reducing the radius, so that the wrong location is not read. Other sites may be much larger and have, for example, a large car park. There, it would be better to increase the radius, as to cover the larger area.

When the user is happy with the locations, they need to click on "import." This will import their locations into the Quartix database.

Name	Address	Postcode	Radius	Status
TEBOOR HEWTO WA	Footed, Heaton, STYR 50W			100
MEWRODME RTYEM	Footed, Heaton, STYR 50W			100
LES BERTOPW	Launston Rd, New York, STYR 50W			100
EMW MEYTONW	ST BRUCE ST, Launston, STYR 50W			100



If there are no other errors and no ambiguous locations, the user will receive a message display that confirms the import has been completed.

If there are ambiguous addresses, it may be because no house/building number was included. The system will display the possible options that it has found for those locations.

Unambiguous addresses will be imported, leaving the user to select the locations for the ambiguous locations.

At the right hand side of the list, there are notes on what actions need to be taken with the ambiguous locations.

Notes

All unambiguous addresses have been imported.

For ambiguous addresses please choose the correct address from the list provided.

At any time you can download the remaining ambiguous address as well as any that could not be found. You can then edit them in your spreadsheet software and submit them as a new list.

Name	Uploaded Addresses	Postcode	Radius	Ambiguous
Address4	Brickfields Park		100	<input type="button" value="Select"/> Brickfields, Heron Ct, Lower Halstow, Sittingbourne, Kent ME9 7EF, UK <input type="button" value="Select"/> Brickfields, Saint Helens, Merseyside W4B, UK <input type="button" value="Select"/> Brickfields Park, Warrington, Warrington, Warrington W42, UK <input type="button" value="Select"/> Brickfields Park, Crumlin, Dublin, Co. Dublin, Ireland <input type="button" value="Select"/> Brickfields, Launceston TAS 7250, Australia
Address6	Delves Lane, CONSETT, County Durham	DH8 7BH	230	<input type="button" value="Select"/> Village Store, Delves Ln, Consett, County Durham DH8 7BH, UK <input type="button" value="Select"/> Delves Lane, Consett, Consett, County Durham DH8, UK <input type="button" value="Select"/> Delves, Consett, Consett, County Durham DH8, UK <input type="button" value="Select"/> Delves Lane Roundabout, Consett, County Durham DH8 7JN, UK <input type="button" value="Select"/> Delves Lane Community School, Delves Lane, Consett, County Durham DH8 7ES, UK <input type="button" value="Select"/> Delves Lane Junior School, Delves Ln, Consett, County Durham DH8 7ES, UK <input type="button" value="Select"/> Delves Lane Methodist Church, Consett, Consett, County Durham DH8, UK <input type="button" value="Select"/> Delves Lane (NW-bound), Consett, Consett, County Durham DH8, UK

The user clicks on the "select" button next to the location that they want to be used as the point for the customised location. This will then be added to the database.

Any locations that are not found or any ambiguous locations that the user wants to double check can be downloaded to a spreadsheet by clicking on the "Download Ambiguous Addresses" button.

The user can then double check these, correct them as required and re-upload them for processing.

Any customised location that is added to the system will only be used going forwards. No data is updated retrospectively.

With the Quartix system, there is a mixture of online and off-line reports. Some of the reports that can be accessed via the online application are only available online, unless they have the option to "Export." Others will have to be emailed to the user.

There are currently five reports that can be set up to be automatically e-mailed to the user.

These reports can go to any number of e-mail recipients, but Quartix suggests that if the user wants large numbers of people to receive the reports, it may be better to set up distribution groups on their e-mail servers. This will give them control over the management of e-mailed reports.

Daily Vehicle Log	A copy of the Daily Vehicle Log that is available on the Quartix website.
Daily Group	An Excel spreadsheet that is run against a group of vehicles. It contains a summary tab for the previous day and then tabs for each vehicle that is part of the group.
Weekly Vehicle Log	An Excel spreadsheet that is run for a specific vehicle. It contains a summary tab for the previous week and then a detailed tab for each date of the previous seven days.
Weekly Driver Log	An Excel spreadsheet similar to the Weekly Vehicle Log, but run against the Driver ID tag information rather than the vehicle.
Bi-Weekly Driver Log	The same as the Weekly Driver Log, but containing two weeks worth of information rather than seven days.

Daily Vehicle Log

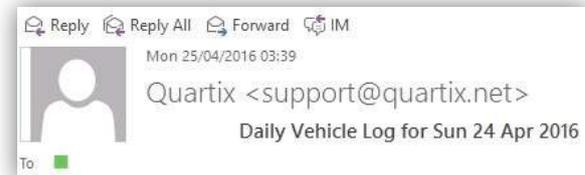
The Daily Vehicle Log is a mainstay of the Quartix system and has been around since day one. Over the years, it has gone through some revisions, but the core information that it contains has remained the same.

The Daily Vehicle Log can be set up to be e-mailed to any number of e-mail addresses. By default, when an account is set up, the log is sent to the main company contacts, unless advised otherwise. The recipient e-mail address(es) can be changed using the administrator account, or the user can send an e-mail to support@quartix.net and advise the Support team of the changes needed.

As the Daily Vehicle Log is presented by vehicle, the user can send different vehicles logs to different e-mail addresses.

When the user receives the Daily Vehicle Log by e-mail it will have some notes at the bottom, confirming what some of the information in the report means.

While some of the parameters can be changed, such as the "new trip threshold," others cannot. They provide the user with the same information as they would see if they were looking at the Daily Vehicle Log online.



Notes

1. Asterisk (*) after departure time indicates previous day/shift.
2. New trip threshold 0 metres
3. Stops with ignition on are displayed.
4. Travel time excludes idling, average speed calculation includes idling.

The new trip threshold and whether stops with ignition on are displayed can be changed by your administrator or Quartix Technical Support.

Daily Vehicle Log

The Daily Vehicle Log that is received via e-mail is just a copy of what is shown on the Quartix website.

Trip	Depart	Arrive	Travel Time	Idling Time	Distance (in km)	Average Speed (mph)	Max Speed (mph)	Time on site	Fuel
1	11:22 HOME	12:05 Keele Farm Close, SHREWSBURY, SY3 9LZ	0:42		29.0	41.4	76.8	0:25	-
2	12:30 Keele Farm Close, SHREWSBURY, SY3 9LZ	12:34 Mole Drive Retail Park, Healdrod Road, SHREWSBURY, SY3 9AB	0:03		0.2	4.8	16.8	1:00	-
3	13:43 Mole Drive Retail Park, Healdrod Road, SHREWSBURY, SY3 9AB	13:48 Healdrod Road, SHREWSBURY, SY3 9LB	0:05		0.1	6.8	12.4	0:10	-
4	13:57 Healdrod Road, SHREWSBURY, SY3 9LB	14:44 HOME	0:47		28.2	37.3	72.7		-
Total			1:37	0:00	57.5	37.7	72.7	1:35	

It contains the same key information, such as:

- Ignition-on and off times and locations
- Travel time
- Idling time
- Distance travelled
- Average speed
- Maximum speed (This is not turned on by default on the online report.)
- Time on site (Must be ticked upon first going into the report online.)
- Driver (Will only show if Driver ID is enabled and a Driver ID tag was used.)

The information is broken down by each trip, with a total for the whole day.

Daily Group Report

The Daily Group Report is an Excel report that contains information for a group of vehicles.

The report is broken down into a “summary” tab that gives totals and information for all the vehicles that make up the group, and a “details” tab with the registration of the vehicle that gives detailed information on the trips that the vehicle has made on the date of the report.

When the Daily Group Report arrives, it will have an attachment that bears name of the group and the date for which it has been generated. There is also a note in the main body of the e-mail confirming this.

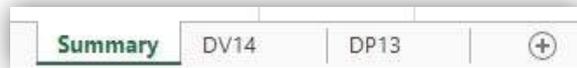
It is important to note that there are some complex macros in this spreadsheet that will require the full version of Microsoft Excel in order for them to run. Users cannot run them in an Excel viewer. If they do, they will only see zeros in all of the fields.



Daily Group Report

The Daily Group Report contains a summary tab and tabs for each vehicle that make up the group.

At the top of the report there is also a header, confirming the report name, the group for which it is being run, and the date on the data.



On the summary tab and the detail tabs, there is a disclaimer at the bottom referring to the information that is included in the report.

The contents of this report are supplied for information only. While every attempt is made to ensure accuracy, Quartix Limited cannot accept liability for any errors or omissions

	DV14		
	Daily Total	Sport Venture Limited Edition	DP13 Vauxhall
Number of Trips	5	5	0
Total Travel Time	3:32	3:32	-
Total Idling Time	0:23	0:23	.
Total Distance (miles)	104.1	104.1	0.0
Average Speed (mph)	29.4	29.4	.
Maximum Speed (mph)	61.5	61.5	0.0
Fuel consumption (mpg)	.	38.0	.
Expected fuel used (gals)	2.7	2.7	0.0
(litres)	12.3	12.3	0.0
CO2 emissions (kg)	33.0	33.0	0.0
Start of first trip	.	09:22	.
End of last trip	.	15:48	-
Total shift duration	6:26	6:26	.
Arrival at first location	.	10:23	.
Departure from last location	.	14:03	-
On-site shift duration	3:40	3:40	.

The body of the spreadsheet contains summary information in the form of a "Daily Total" and also totals for each vehicle registration.

There is information on the number of trips recorded, total travel time, total distance, average speed, and more.

If the user has entered a nominal fuel usage for their vehicles (25mpg is the default), then the report will calculate the expected fuel usage in gallons and litres. This is in addition to a calculated CO2 emission value.

The system also calculates the "total shift duration" and "on-site shift duration", again for each vehicle and as a combined "Daily Total".

Daily Group Report

After clicking on the "registration" tab on the "Daily Group Report," the user is taken through to a sheet that provides a more detailed breakdown of what the vehicle has done on the specific date of the report.

The information can be broken down into four key areas.

At the top is the "Daily Summary." This displays the information that is also shown on the "summary" tab of the spreadsheet.

Daily Summary		Number of Trips	5
DV11	Limited Edition	Total Travel Time	3:32
Sun 11 May, 2015		Total Idling Time	0:23
Shift start: midnight		Total Distance (miles)	104.1
		Average Speed (mph)	29.4
		Maximum Speed (mph)	61.5
		Fuel consumption (mpg)	38.0
		Expected fuel used (gals)	2.7
		(litres)	12.3

The user can change the "Fuel Consumption" for a vehicle and the system will adjust the "Expected Fuel Used," but it will only do so on this report. If the user wants this change on all future reports, they need to log in on their administrator account, go to "Configuration," then "Edit Standard Vehicle Details" for the registration they want to change and then change the "Estimated Consumption" value.

Time on Site Breakdown	
Location	Time at Location
Upper Corris, MACHYNLLETH, Powys, SY209RF	2:01
Upper Corris, MACHYNLLETH, Powys, SY209RF	0:42
TYWYN, Gwynedd, LL369RT	0:06
Marine Parade, TYWYN, Gwynedd, LL360DE	0:03
Total on-site shift duration	2:53

The "Time on Site Breakdown" lists the time that the vehicle spent at each location (i.e.: the time between an ignition-off and the next ignition-on).

This is then totaled to give an "On-site shift duration" for the day.

The "Total Shift Time" contains information from the first ignition-on to the last ignition-off; the total time between the two events makes up the "Total Shift Duration".

The "Time on Site" is the arrival at the first location, the departure from its last location. The "On-site shift duration" is the time between the two.

Total Shift Time	
Start of first trip	09:22
End of last trip	15:48
Total shift duration	6:26
Time on site	
Arrival at first location	10:23
Departure from last location	14:03
On-site shift duration	3:40

Daily Group Report

The Trip Breakdown shows the trips that the vehicle has made on a given day. Generally, the information will be the same as what is included on the Daily Vehicle Log or on the website, apart from two things.

Max Speed: This is the maximum speed that the unit recorded for each trip. The maximum for the day is also included in the summary sections. By default, this is not displayed on the Daily Vehicle Log that is online or e-mailed.

Stop Events: "Idling time" can be seen if it has been recorded during a trip. However, unlike the daily vehicle log, the report will not display the stop locations (stops with the ignition still on) that the unit has recorded.

Trip Number	Start Location	Departure Time	End Location	Arrive Time	Fuel Cons	Avg Spd	Max Spd	Total Miles
1	HQHQ	09:25	Upper Centre, MACHINISTS, Perth, EX388	10:05	0.15	0.00	0.0	0.0
2	Upper Centre, MACHINISTS, Perth, EX388	10:25	Upper Centre, MACHINISTS, Perth, EX388	11:05	0.15	0.00	0.0	0.0
3	Upper Centre, MACHINISTS, Perth, EX388	11:25	Upper Centre, MACHINISTS, Perth, EX388	12:05	0.15	0.00	0.0	0.0
4	Upper Centre, MACHINISTS, Perth, EX388	13:05	Upper Centre, MACHINISTS, Perth, EX388	14:05	0.15	0.00	0.0	0.0
5	Upper Centre, MACHINISTS, Perth, EX388	15:05	Upper Centre, MACHINISTS, Perth, EX388	16:05	0.15	0.00	0.0	0.0

The rest of the information will be the same as what shows on the Daily Vehicle Log:

- Trip Number
- Start Location
- Departure Time
- End Location
- Arrival Time
- Travel Time
- Distance (miles)
- Average Speed

With the Daily Group Report being an Excel spreadsheet, data can be reformatted to give additional information.

One feature that is built in to the report is the ability to mark whether a trip was a private. In other words, if the vehicle was used for non-business reasons.

Daily Summary		Number of Trips	
DV14		5	
Edition		Total Travel Time	
Sun 01 May, 2016		3:32	
Shift start: midnight		Total Idling Time	
Business mileage in monitored hours		0:23	
Private mileage in monitored hours		Total Distance (miles)	
89.6		104.1	
14.5		Average Speed (mph)	
Overall total		29.4	
104.1		Maximum Speed (mph)	
		61.5	
		Fuel consumption (mpg)	
		10.0	
		Expected fuel used (gals)	
		10.4	
		(litres)	
		47.3	

This is done by putting a "P" in column "L" on the registration tab next to the trip that was private. Column "L" is just between the "Max Speed" and "Location" fields.

Trip Number	Start Location	Departure Time	End Location	Arrive Time	Fuel Cons	Avg Spd	Max Spd	Total Miles	L
1	HQHQ	09:25	Upper Centre, MACHINISTS, Perth, EX388	10:05	0.15	0.00	0.0	0.0	
2	Upper Centre, MACHINISTS, Perth, EX388	10:25	Upper Centre, MACHINISTS, Perth, EX388	11:05	0.15	0.00	0.0	0.0	P
3	Upper Centre, MACHINISTS, Perth, EX388	11:25	Upper Centre, MACHINISTS, Perth, EX388	12:05	0.15	0.00	0.0	0.0	
4	Upper Centre, MACHINISTS, Perth, EX388	13:05	Upper Centre, MACHINISTS, Perth, EX388	14:05	0.15	0.00	0.0	0.0	
5	Upper Centre, MACHINISTS, Perth, EX388	15:05	Upper Centre, MACHINISTS, Perth, EX388	16:05	0.15	0.00	0.0	0.0	

Marking trips as "private" will then display additional information on the "Daily Summary" section of the registration tab on the report.

It will also display additional information on the Summary tab of the report, giving the user information on the "Business" and "Private" miles that have been recorded for the vehicle. This will also be factored into the "Daily Total," if the user marks trips as private for multiple vehicles.

Daily Summary		Business Mileage		Private Mileage	
Number of Trips		5		0	
Total Travel Time		3:32		0:00	
Total Idling Time		0:23		0:00	
Total Distance (miles)		104.1		0.0	
Average Speed (mph)		29.4		0.0	
Maximum Speed (mph)		61.5		0.0	
Fuel consumption (mpg)		10.0		0.0	
Expected fuel used (gals)		10.4		0.0	
(litres)		47.3		0.0	
Business mileage in monitored hours		89.6		0.0	
Private mileage in monitored hours		14.5		0.0	
Overall total		104.1		0.0	

Weekly Vehicle Log

The Weekly Vehicle Log is a report that gives both summary and detailed trip information for a vehicle over the period of a week. The report is e-mailed automatically on a day of the user's choosing. For example, if a company's working week runs from Monday to Sunday, the report would be set up so it was received on the Monday morning. It would contain data for the previous seven days.

The report can be e-mailed to any number of recipients, and the logs for different vehicles can be sent to different users. Quartix suggests that if the logs need to go to a large number of people, it may be more practical for the user to set up a distribution list on their e-mail servers. They can then make changes to recipients without having to notify Quartix.

When the user receives the "Weekly Vehicle Log" by e-mail, there is a header that shows the report that has been sent and confirms the attachment name.



Quartix advises that this attachment be saved to a PC or a networked location for storage. The user should open this attachment not from the email, but from the folder to which they saved it.

It is important to note that there are some complex macros in this spreadsheet that will require the full version of Microsoft Excel in order for them to run. The log cannot be run in an Excel viewer. If it is, the user will only see zeros in all of the information fields. In the main body of the Weekly Vehicle Log e-mail, there will be information on the Vehicle Management settings for this specific vehicle. This will be information that has been set up under Vehicle Management in the Configuration section, that is also visible on the MOT/Service Date Report.

The generation of the Weekly Vehicle Log is the trigger for this information to be updated. As the date or odometer readings approach, the colour of the text will change from black to amber. If the date or odometer reading passes the set limit, then the text colour changes to red and the words will be bolded.

This information can be updated with new dates and odometer values using an administrator account.



Notes:

1. The above status report is based on information entered into the Quartix system by the user.
2. The Quartix odometer estimate is based on distances monitored since the last manual reading.
3. To ensure consistency with the vehicle's odometer, the manual reading should be updated on a monthly basis.
4. While every attempt is made to ensure accuracy, Quartix Limited cannot accept liability for any errors or omissions.
5. Excel 2010 has a new "Protected View" which is used if you open a file from sources such as the Internet or an e-mail attachment. You can set Excel 2010 to open files from trusted sources but we do not advise the complete disabling of this feature. When protected view is displayed there is an option to "Enable Editing". If you click this, the Quartix spreadsheet will open normally so you can view the data. Alternatively you will get a "Security Alert - Office File Validation" pop box. Please click on "Open" and again the Quartix spreadsheet will open normally so you can view the data.

The message above is included in the main body of the Weekly Vehicle Log e-mail. It gives information that relates to the vehicle management data above the message. It also has a section in green warning the user that, ever since Microsoft Office 2010, the way that Microsoft deals with attachments has changed and that they may have some additional steps to follow when they first open the spreadsheet attachment.

Weekly Vehicle Log

When the user opens the Excel attachment, there is a warning advising that the spreadsheet is being opened in Protected View. Although the warning says the system has detected a problem, there is no issue with the spreadsheet. The reason this message is being generated is because the spreadsheet contains macros.



Click on "Click for more details" to bring up the following warning message.



Click on "Edit Anyway" and the spreadsheet will open to give the user summary and trip information for the vehicle for the previous week.

If there are any issues with opening this spreadsheet or any others, or if the user has any queries with the data on them, they should send an e-mail, with the spreadsheet attached, to support@quartix.net.

Weekly Spreadsheet DV14 Limited Edition Sun 24 Apr 2016 - Sat 30 Apr 2016

Once through the Microsoft warning messages, the user will have access to the Weekly Vehicle Log data. This report is set up in the same way as the Daily Group Log. It has a "Summary" tab and then "detail" tabs, but instead of the details tabs being vehicle registrations, they are the dates for the previous seven days.

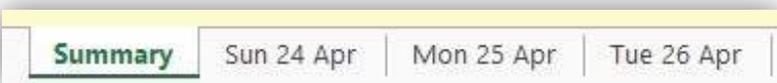
The report opens by default on the summary tab, and at the top of the summary information is the report header. It confirms the report that has been run, the vehicle registration and description, and the dates that the report covers.

Under this is the summary information.

The summary information gives the user a weekly total and totals for each date of that week.

	Weekly Total	Sun 24 Apr	Mon 25 Apr	Tue 26 Apr	Wed 27 Apr	Thu 28 Apr	Fri 29 Apr	Sat 30 Apr
Number of trips	21	4	4	3	3	4	2	1
Total travel time	0:33	01:26	01:50	00:28	00:35	00:48	00:18	01:34
Total distance (miles)	171.5	58.5	59.7	9.9	9.6	26.2	8.1	39.4
Idling time	0:13	0:08	0:01	0:08	0:00	0:06	0:00	0:12
Average speed (mpg)	28.3	35.8	23.2	19.6	22.5	32.2	29.3	25.6
Maximum speed (mpg)	72.7	72.7	57.2	59.7	57.8	68.5	80.3	65.3
Normal fuel consumption (mpg)	-	38.8	38.0	38.6	38.0	38.6	39.0	38.6
Expected fuel used (gals)	4.5	1.5	8.5	0.3	0.3	0.7	6.2	1.0
CO2 emissions (gals)	20.5	7.0	2.4	1.2	1.1	3.1	1.8	4.7
CO2 emissions (gals)	66.0	19.7	6.3	3.1	3.1	0.4	2.7	12.6
Start of first trip	-	11:23	07:43	07:47	07:43	07:41	07:48	09:09
End of last trip	-	14:44	11:37	11:54	17:27	15:42	18:52	17:06
Total shift duration	04:09	3:22	13:43	10:07	9:42	8:06	18:16	8:58
Arrival at first location	-	12:06	07:54	07:59	07:58	07:52	07:18	09:31
Departure from last location	-	13:07	21:19	17:48	17:15	16:33	17:13	16:52
On-site shift duration	08:15	1:52	13:19	9:46	9:17	7:41	8:57	9:21

It contains the same information that is included on the Daily Group Log.



At the bottom of the spreadsheet, there are tabs for the summary information and then tabs for each day/date that makes up the previous seven days worth of data.

Weekly Vehicle Log

Clicking on the "Day/Date" tabs on the Weekly Vehicle Log takes the user to a sheet that gives them a more detailed breakdown of what the vehicle has done on that specific date.

The information can be broken down into four key areas.

At the top, there is the Daily Summary. This shows the information that is also on the "Summary" tab of the spreadsheet.

The user can change the "Fuel Consumption" for this vehicle and it will adjust the "Expected Fuel Used," but it will only do so on this report. If the user wants to change this on all future reports, they must log in on their administrator account, go to "Configuration," then "Edit Standard Vehicle Details" for the registration they wish to change, and change the "Estimated Consumption" value.

Daily Summary	
Mazda 5 Sport Venture Limited Edition	Number of trips: 4
DV34 ENC	Total travel time: 01:28
Sun 24 Apr 2010	Total distance (miles): 58.5
	Average speed (mph): 36.8
	Maximum speed (mph): 72.7
	Normal fuel consumption (mpg): 30.8
	Expected daily fuel used (gall): 1.9
	(litres): 7.0
	Overall total: 58.5

Total shift time	
Start of first trip:	11:22
End of last trip:	14:44
Total shift duration:	3:22
Time on site	
Arrival at first location:	12:05
Departure from last location:	13:57
'On-site' shift duration:	1:52

The "Total Shift Time" is from the first ignition-on to the last ignition-off and the time between the two is the "Total Shift Duration".

The "Time on Site" is from the vehicle's arrival at the first location to its departure from its last location. The "On-site shift duration" is the time between the two.

The "Time on Site" breakdown lists the time that the vehicle spent at each location. This is the time between an ignition-off and the next ignition-on.

This is then totaled to give the user an "On-site shift duration" for the day.

Time On Site	
Location	Time at Location
Knolls Farm Close, SHREWSBURY, SY3 9LZ	00:25
Meole Brace Retail Park, Hereford Road, SHREWSBURY, SY3 9NB	01:09
Hereford Road, SHREWSBURY, SY3 9LB	00:12
IAN HOME	00:00
Total time on site:	01:46

The "Trip Breakdown" section shows the trips that the vehicle has made on the given day. In general, this information will be the same as what is included on the Daily Vehicle Log or what is available on the website, apart from two things.

Max Speed: The maximum speed that the unit recorded for each trip. The maximum for the day is also included in the summary sections. By default, this is not turned on for the Daily Vehicle Log that is online or e-mailed.

Stop Events: "Idling time" will be visible, if it has been recorded during a trip. However, unlike the Daily Vehicle Log the user will not see the stop locations (stops with the ignition still on) that the unit has recorded.

The rest of the information will be the same as what shows on the Daily Vehicle Log:

- Trip Number
- Start Location
- Departure Time
- End Location
- Arrival Time
- Travel Time
- Distance (miles)
- Average Speed

Trip Breakdown									
Trip Number	Start Location	Departure Time	End Location	Arrival Time	Travel Time	Idling Time	Distance (miles)	Average Speed (mph)	Max Speed (mph)
1	IAN HOME	11:22	Knolls Farm Close, SHREWSBURY, SY3 9LZ	12:05	00:42	00:00	28	40.7	78.9
2	Knolls Farm Close, SHREWSBURY, SY3 9LZ	12:38	Meole Brace Retail Park, Hereford Road, SHREWSBURY, SY3 9NB	12:34	00:03	00:00	0.2	3.4	16.8
3	Meole Brace Retail Park, Hereford Road, SHREWSBURY, SY3 9NB	13:43	Hereford Road, SHREWSBURY, SY3 9LB	13:41	00:01	00:00	0.1	4.8	12.4
4	Hereford Road, SHREWSBURY, SY3 9LB	13:57	IAN HOME	14:44	00:47	00:00	29.2	35.9	72.7

Weekly Vehicle Log

With the Weekly Vehicle Log being an Excel spreadsheet, the user is able to reformat the data to provide additional information.

One feature that is built into the report is the ability to mark whether a trip is a private. In other words, to say that the driver used the vehicle for private use.

This is done by putting a "P" in column "L" on the registration tab next to the trip that should be marked as private. Column "L" is just between the "Max Speed" and "Location" fields.

Trip	Date	Description	Start Time	End Time	Mileage	Fuel
1	2016/04/24	WARR	11:00	11:45	45.00	1.5
2	2016/04/24	WARR	12:30	13:15	45.00	1.5
3	2016/04/24	WARR	14:00	14:45	45.00	1.5
4	2016/04/24	WARR	15:30	16:15	45.00	1.5

It will also display additional information on the Summary tab of the report. This gives the user information on the "Business" and "Private" miles that have been recorded for the vehicle and gives a "Daily Total" (if trips are marked as private for multiple vehicles).

Daily Summary	
DV14	Number of trips: 4
Sun 24 Apr 2016	Total travel time: 01:35
	Total mileage in monitored hours: 58.5
	Average speed (mph): 36.8
	Maximum speed (mph): 72.7
	Nominal fuel consumption (mpg): 38.0
	Expected daily fuel used (gals): 1.5
	(litres): 7.0
	Business mileage in monitored hours: 58.3
	Private mileage in monitored hours: .2
	Overall total: 58.5

Marking the trips as private brings up additional information on the Daily Summary section of the report's registration tab.

Category	Mon 24	Tue 25	Wed 26	Thu 27	Fri 28	Sat 29	Sun 30	Total
Number of trips	4	0	0	0	0	0	0	4
Total mileage	58.5	0	0	0	0	0	0	58.5
Total fuel used	1.5	0	0	0	0	0	0	1.5
Average speed (mph)	36.8	0	0	0	0	0	0	36.8
Maximum speed (mph)	72.7	0	0	0	0	0	0	72.7
Nominal fuel consumption (mpg)	38.0	0	0	0	0	0	0	38.0
Expected daily fuel used (gals)	1.5	0	0	0	0	0	0	1.5
(litres)	7.0	0	0	0	0	0	0	7.0
Business mileage in monitored hours	58.3	0	0	0	0	0	0	58.3
Private mileage in monitored hours	.2	0	0	0	0	0	0	.2
Overall total	58.5	0	0	0	0	0	0	58.5

The Weekly Vehicle Log is an Excel spreadsheet and the information contained within it can be reformatted to suit the user's needs.

With this report, Quartix can provide the user with a template they can use to amend the log and have it become their standard Weekly Vehicle Log.

The user will need to be an experienced user of Excel (or have someone who is) to make the amendments that are required. Quartix is unable to make this type of change for their customers. The user must send them the updated template. Quartix will run a test report using the template and have it sent to the user, so they can double check the data and formatting.

Once the user is happy with the set up, they should inform Quartix and the system will be amended for that customer, so their template is used for all of their future Weekly Vehicle Logs.

Customising the Weekly Vehicle Log

The template itself is a master Excel spreadsheet, containing all formulae, formats, etc. It can be edited to change the location of fields, the calculations in the formulae or the format of the data.

The only exceptions are the fields containing >>\$ or \$\$, which are the standard fields waiting to be populated with data - they should not be changed. To edit this data, the user must have an advanced knowledge of Excel.

The version number should be recorded in cell A1 on the first page.

Before saving the spreadsheet, move the cursor to A1 on each page, ending on the first page. This is where the cursor will appear when the spreadsheet generator has produced the final report.

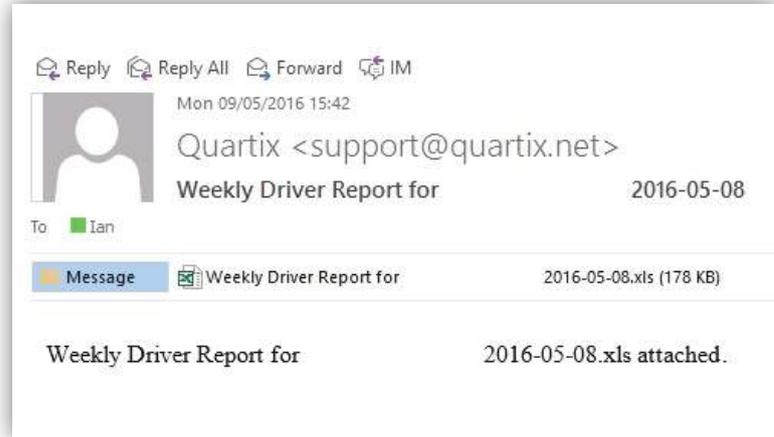
Weekly Driver Log

The Weekly Driver Log is a report that gives the user both summary and detailed trip information for a driver over the period of a week.

The report is e-mailed automatically on a day of the user's choosing. For example if the user's working week ran from Monday to Sunday, the report would be set up so it was received on the Monday morning and would contain data for the previous seven days.

The report can be e-mailed to any number of recipients and the reports for certain vehicles can be sent to different users. Quartix suggests that if the report must go to a large number of people with numerous changes, it may be more practical for the user to set up a distribution list on their e-mail server. They can then make changes to recipients without having to notify Quartix.

When the user receives the Weekly Driver Log by e-mail, there will be a header that confirms which report has been received, as well as the attachment name.



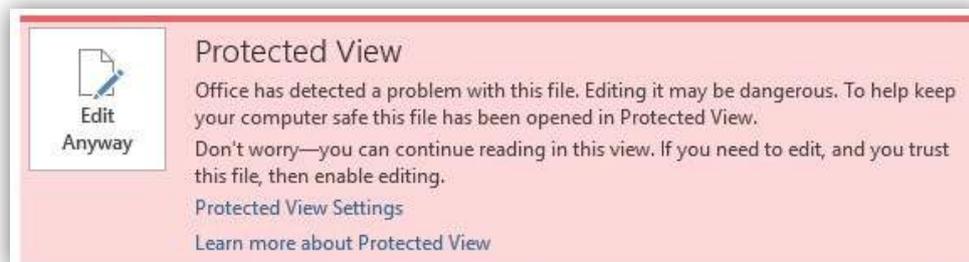
Quartix advises that this attachment be saved to a PC or a network location for storage and that the user open and use the saved file.

It is important to note that there are some complex macros in this spreadsheet that will require the full version of Microsoft Excel in order for them to run. They cannot be run in an Excel viewer or else the user will only see zeros for all the information.

When the user opens the Excel attachment, there will be a warning saying that the spreadsheet is being opened in Protected View. Although it tells the user that it has detected a problem, there is no issue with the spreadsheet. The reason this message is being generated is because it contains macros.



Click on "Click for more details" to bring up the following warning message.



Click on "Edit Anyway" and the spreadsheet opens to give the user the summary and trip information for the driver for the previous week.

If there are any issues with opening this spreadsheet or any others, or if the user has any queries with the data on them, they should send an e-mail, with the spreadsheet attached, to support@quartix.net.

Weekly Driver Log

Once past the warning messages, the user is presented with an Excel spreadsheet that is very similar to the Weekly Vehicle Log. The main difference is that the Weekly Driver Log shows the trip information that has been recorded when a Driver ID tag has been read by the Quartix unit.

When the system is first set up, the user will receive instructions on allocating a Driver ID tag to a specific driver. Quartix will update the system with the driver's name. The user will be e-mailed an Excel spreadsheet with details on all the Driver ID tags they have been shipped. They will add in the names of the drivers as they are issued with a tag and send the list back to support@quartix.net, for their account to be updated.

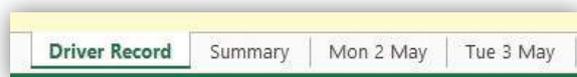
Weekly Driver Report for Steve							
Mon 2 May - Sun 8 May							
Date	Vehicle Details	Start Time	Finish Time	Opening Mileage	Closing Mileage	Distance (miles)	Tag ID
Mon 2 May							
Tue 3 May	C161 Ford Transit SWD	07:26	21:16				
Wed 4 May	C161 Ford Transit SWD	07:26	21:07				
Thu 5 May	C161 Ford Transit SWD	07:28	16:58				
Fr 6 May							
Sat 7 May							
Sun 8 May							

It's possible for the user to amend Driver ID information through their administrator account, by going to the "Edit Driver Details" section.

The other key difference is that there is an additional tab in this report called "Driver Record".

This gives summary information on the first ignition-on and off for each day. The driver can manually input opening and closing mileages along with the total for each day. These figures are not calculated automatically.

The rest of the Weekly Driver Log has the same layout as the Weekly Vehicle Log. There is a "Summary" tab after the "Driver Record" tab, and then a separate tab for each day of the previous week.



Weekly Driver Report for Steve								
Mon 2 May - Sun 8 May								
	Weekly Total	Mon 2 May	Tue 3 May	Wed 4 May	Thu 5 May	Fr 6 May	Sat 7 May	Sun 8 May
Number of trips	41	1	12	13	14	0	8	1
Total travel time	4:34	00:18	04:24	01:24	01:24	00:00	00:00	00:00
Total distance (miles)	26.0	3.1	21.1	32.2	25.7	0.0	0.0	2.7
Average speed (mph)	21.2	19.3	22.0	33.5	30.3	0.0	0.0	21.8
Maximum speed (mph)	69.0	38.8	68.8	88.0	67.1	0.0	0.0	28.8
Normal fuel used (gallons)	-	35.8	27.1	27.4	35.9	0.0	0.0	28.8
Expected fuel used (gallons)	3.5	0.1	1.1	1.2	1.0	-	-	0.3
Excess fuel used (gallons)	16.5	0.5	5.2	5.8	4.3	-	-	0.7
Start of first trip	-	00:00	07:26	07:26	07:28	00:00	00:00	00:00
End of last trip	-	00:00	21:16	21:07	16:58	00:00	00:00	00:00
Total shift duration	31:42	4:00	15:49	13:11	9:29	0:00	0:00	0:00
Arrived at first location	-	00:00	07:27	07:29	07:28	00:00	00:00	00:00
Departure from last location	-	00:00	21:16	21:06	16:58	00:00	00:00	00:00
Overall shift duration	31:11	-	13:38	13:35	9:14	-	-	-

The "Summary" tab contains the same core information as the "Daily Group Log" and the "Weekly Vehicle Log."

- Number of Trips
- Total Travel Time
- Total Distance
- Average Speed
- Max Speed
- Start of First Trip
- End of Last Trip

If required, this information can be reformatted as desired, to help the user get the most out of the information available.

Weekly Driver Log

When the user clicks on the "Day/Date" tabs on the Weekly Driver Log, they are taken through to a sheet with a more detailed breakdown of what the vehicle has done on that specific date.

The information can be broken down into four key areas.

At the top, the "Daily Summary" displays information that is also shown on the "Summary" tab of the spreadsheet.

The user can change the "Fuel Consumption" for this vehicle and it will adjust the "Expected Fuel Used," but only on this report. If it must be changed on all future reports, the user must log on with their administrator account, go to "Configuration" then "Edit Standard Vehicle Details" for the vehicle's registration, and then change the "Estimated Consumption" value. This will change the information for the vehicle, not the driver.

Daily Summary	
Weekly Driver Report for Steve	Number of trips: 17
Tue 3 May	Total shift time: 01:24
	Total distance (miles): 21.1
	Average speed (mph): 25.0
	Maximum speed (mph): 25.0
	Normal fuel consumption (mpg): 27.0
	Expected daily fuel used (gall): 1.1
	(litres): 4.2

Time On Site	
Location	Time at Location
Click here to view vehicle location	00:07
East Street, PORT TALBOT, West Glamorgan, SA132YG	00:36
Dyffryn Road, PORT TALBOT, West Glamorgan, SA131TE	00:17
Click here to view vehicle location	00:01
Cathedral Way, PORT TALBOT, West Glamorgan, SA127DZ	00:22
Brunei Way, Baglan Energy Park, Driaf Ferry, NEATH, West Glamorgan, SA112FP	00:10
Heal Cwng, NEATH West Glamorgan, SA107SN	00:38
Click here to view vehicle location	00:01
Heal y Urynuw, Tretomas, Postarlwae, SWANSEA, SA8 4DD	00:52
Llwy Noddi / Pae Y Dre Neath	00:02
Maes y Deri, Cilfrew, NEATH, West Glamorgan, SA10BLT	00:14
Total time on site: 12:27	

The "Total Shift Time" is from the first ignition-on to the last ignition-off and the total time between the two is the "Total Shift Duration".

The "Time on Site" is the vehicle's arrival at its first location and the departure from its last location. The "On-site shift duration" is the time between the two.

The "Time on Site" breakdown lists the time that the vehicle spent at each location. This is the time between an ignition-off and the next ignition-on.

This is then totaled to give the user an "On-site shift duration" for the day.

Total shift time	
Start of first trip:	07:25
End of last trip:	21:15
Total shift duration:	13:49
'Time on site'	
Arrival at first location:	07:37
Departure from last location:	21:14
'On-site' shift duration:	13:36

		Trip Breakdown									
TRIP	Vehicle	Start Location	Destination	Start Location	Start Time	End Time	Duration	Distance	Speed	Fuel Used	Max Speed
1	SW01	East Street, Port Talbot, SW01	East Street, Port Talbot, SW01	SW01	07:25	07:37	00:12	0.0	0.0	0.0	0.0
2	SW01	East Street, Port Talbot, SW01	East Street, Port Talbot, SW01	SW01	07:37	07:52	00:15	0.0	0.0	0.0	0.0
3	SW01	East Street, Port Talbot, SW01	Dyffryn Road, Port Talbot, SW01	SW01	07:52	08:09	00:17	0.0	0.0	0.0	0.0
4	SW01	East Street, Port Talbot, SW01	Cathedral Way, Port Talbot, SW01	SW01	08:09	08:31	00:22	0.0	0.0	0.0	0.0
5	SW01	East Street, Port Talbot, SW01	Brunei Way, Baglan Energy Park, Driaf Ferry, NEATH, West Glamorgan, SA112FP	SW01	08:31	08:41	00:10	0.0	0.0	0.0	0.0
6	SW01	East Street, Port Talbot, SW01	Heal Cwng, NEATH West Glamorgan, SA107SN	SW01	08:41	09:19	00:38	0.0	0.0	0.0	0.0
7	SW01	East Street, Port Talbot, SW01	Heal y Urynuw, Tretomas, Postarlwae, SWANSEA, SA8 4DD	SW01	09:19	09:51	00:32	0.0	0.0	0.0	0.0
8	SW01	East Street, Port Talbot, SW01	Llwy Noddi / Pae Y Dre Neath	SW01	09:51	09:53	00:02	0.0	0.0	0.0	0.0
9	SW01	East Street, Port Talbot, SW01	Maes y Deri, Cilfrew, NEATH, West Glamorgan, SA10BLT	SW01	09:53	10:07	00:14	0.0	0.0	0.0	0.0
10	SW01	East Street, Port Talbot, SW01	Heal Cwng, NEATH West Glamorgan, SA107SN	SW01	10:07	10:08	00:01	0.0	0.0	0.0	0.0
11	SW01	East Street, Port Talbot, SW01	Heal y Urynuw, Tretomas, Postarlwae, SWANSEA, SA8 4DD	SW01	10:08	10:40	00:32	0.0	0.0	0.0	0.0
12	SW01	East Street, Port Talbot, SW01	Llwy Noddi / Pae Y Dre Neath	SW01	10:40	10:42	00:02	0.0	0.0	0.0	0.0
13	SW01	East Street, Port Talbot, SW01	Maes y Deri, Cilfrew, NEATH, West Glamorgan, SA10BLT	SW01	10:42	10:56	00:14	0.0	0.0	0.0	0.0
14	SW01	East Street, Port Talbot, SW01	Heal Cwng, NEATH West Glamorgan, SA107SN	SW01	10:56	11:11	00:15	0.0	0.0	0.0	0.0
15	SW01	East Street, Port Talbot, SW01	Heal y Urynuw, Tretomas, Postarlwae, SWANSEA, SA8 4DD	SW01	11:11	11:26	00:15	0.0	0.0	0.0	0.0
16	SW01	East Street, Port Talbot, SW01	Llwy Noddi / Pae Y Dre Neath	SW01	11:26	11:27	00:01	0.0	0.0	0.0	0.0
17	SW01	East Street, Port Talbot, SW01	Maes y Deri, Cilfrew, NEATH, West Glamorgan, SA10BLT	SW01	11:27	11:44	00:17	0.0	0.0	0.0	0.0

The "Trip Breakdown" section shows the trips that the vehicle has made on the given day.

In general, the information will be the same as what is included on the Weekly Vehicle Log, but it will have been generated for the Driver ID tag being recorded.

It will show the vehicle information for the vehicle the driver used. If they moved between vehicles over the course of the day, there will be different vehicle registrations in this column.

The remaining information is as per the Daily and Weekly Vehicle Logs and gives the important trip information that has been recorded.

Weekly Driver Log

With the Weekly Driver Log being an Excel spreadsheet, the data can be reformatted to provide additional information. One feature built into the report is the ability to mark if a trip is private. In other words, if the vehicle has been driven for private use.

This is done by putting a "P" in column "L" on the registration tab next to the trip that should be marked as private. Column "L" is just between the "Max Speed" and "Location" fields.

Daily Summary	
Weekly Driver Report for Steve	
Wed 4 May	
Number of trips:	13
Total travel time:	01:24
Total distance (miles):	33.2
Average speed (mph):	23.5
Maximum speed (mph):	59.0
Nominal fuel consumption (mpg):	27.1
Expected daily fuel used (gals):	1.2
	(litres): 5.6
Private mileage:	11.5

Trip Number	Vehicle	Start Location	Trip Breakdown				Distance (miles)	Average Speed (mph)	Max Speed (mph)
			Departure Time	End Location	Arrival Time	Travel Time			
1	CVS1 YUR Ford Transit SWB	Unity Hall / Pee Y Dre Heath	07:35	Powell Street, NEATH, West Glamorgan, SA11 1BW	07:39	08:04	1.1	14.7	29.2
2	CVS1 YUR Ford Transit SWB	Pedwell Street, NEATH, West Glamorgan, SA11 1BW	07:48	Heath Abbey Road, NEATH, West Glamorgan, SA11 1DF	07:52	08:03	0.8	18.0	28.6
3	CVS1 YUR Ford Transit SWB	Heath Abbey Road, NEATH, West Glamorgan, SA11 1DF	08:08	Heath Cefn, NEATH, West Glamorgan, SA11 1SW	08:08	08:05	1.5	15.1	31.1
4	CVS1 YUR Ford Transit SWB	Heath Cefn, NEATH, West Glamorgan, SA11 1SW	08:53	Alice Street, NEATH, West Glamorgan, SA11 1BN	09:57	08:04	1.5	18.2	28.8
5	CVS1 YUR Ford Transit SWB	Alice Street, NEATH, West Glamorgan, SA11 1BN	10:00	Heath y Llynnau, Trebanos, Porthkerry, SWANSEA, SA8 4DD	10:26	08:17	7.7	25.0	51.6
6	CVS1 YUR Ford Transit SWB	Heath y Llynnau, Trebanos, Porthkerry, SWANSEA, SA8 4DD	12:15	Gwyns Cefn, Abertawe, Porthkerry, SWANSEA, SA8 3AZ	12:20	08:05	2.1	24.2	34.2
7	CVS1 YUR Ford Transit SWB	Gwyns Cefn, Abertawe, Porthkerry, SWANSEA, SA8 3AZ	12:28	Gallewch, Yctalyfa, SWANSEA, SA8 2JH	12:38	08:18	4.7	27.3	47.9

Marking trips as private will bring up additional information on the "Daily Summary" section of the report's registration tab.

It will also display additional information on the "Summary" tab of the report. This will give information on the "Business" and "Private" miles that have been recorded for the vehicle and a "Daily Total," if trips are marked as private for multiple vehicles.

Weekly Driver Report for Steve		Mon 2 May - Sun 8 May						
	Weekly Total	Mon 2 May	Tue 3 May	Wed 4 May	Thu 5 May	Fri 6 May	Sat 7 May	Sun 8 May
Number of trips	41	1	12	15	14	8	8	1
Total travel time	4:34	00:18	01:24	01:24	01:24	00:08	00:00	00:00
Total distance (miles)	96.8	3.1	31.1	33.2	25.7	8.0	8.8	3.7
Average speed (mph)	21.2	18.3	23.8	23.5	18.3	8.0	8.8	21.6
Maximum speed (mph)	63.8	38.8	55.5	59.0	67.1	8.0	8.8	39.0
Nominal fuel consumption (mpg)	-	25.8	27.3	27.1	25.9	8.0	8.8	25.0
Expected fuel used (gals)	3.5	0.1	1.1	1.2	1.0	-	-	0.1
	(litres)	16.3	0.6	5.2	5.8	4.3	-	0.7
Start of last trip	-	00:00	07:25	07:35	07:38	08:08	06:00	00:00
End of last trip	-	00:00	21:15	21:07	15:55	08:08	06:00	00:00
Total shift duration	35:42	0:00	13:49	13:31	8:23	0:08	8:00	8:00
Arrival at last location	-	00:00	07:37	07:39	07:44	08:08	06:00	00:00
Departure from last location	-	00:00	21:14	21:05	15:58	08:08	06:00	00:00
On-site shift duration	35:17	-	13:28	13:26	8:14	-	-	-
Total mileage recorded	96.8	3.1	31.1	33.2	25.7	8.0	8.8	3.7
Private mileage entered	11.5	-	-	11.5	-	-	-	-
Business mileage	85.3	3.1	31.1	21.7	25.7	8.0	8.8	3.7

In addition to the five batched reports that can be sent out to customers, there are also three “scheduled” reports. These are sometimes called “scheduled alerts”.

The three scheduled reports, all generated daily, are as follows:

Non Movement	Shows any vehicles that have not moved on the previous day, from midnight to midnight.
Non Tagging	Shows any vehicle that has recorded trip movement without a Driver ID tag being read. Again, this is normally for the previous 24 hours, from midnight to midnight.
High Driving	Looks at high driving and long trips. It will list any driver that has been driving for more than a defined time over the previous 24 hours. It can also list any driver who has recorded any trip over a defined length in that same time period.

Non Movement

The “Non Movement” scheduled report looks at those vehicles that have not been used in the previous 24 hours. This could be adjusted if the user wanted to extend the time period, but it cannot be made shorter than one day. The report will list all vehicles that have not recorded any trip information over the time period defined. It will also give the date and time that the unit last recorded vehicle movement.

This report is e-mailed only and can go to any number of e-mail addresses. Currently, it runs for all of a customer’s vehicles.

Registration Number	Description	Last Movement
1	FP96 Renault Espace	24/02/15 15:07
2	JUN702 Ford Transit	24/02/15 11:31
3	L800 Mark - Citroen Xsara	26/02/15 15:27
4	LP64 Silver - Citroen Xsara	26/02/15 11:01
5	L713 Aulis - Citroen Xsara (2)	26/02/15 16:47
6	M011 Aulis	26/02/15 16:51
7	M030 Ford Fiesta Van - Stagecoach	26/02/15 16:51
8	P3 Ford Mondeo Del. 2	26/02/15 16:50
9	UXJ JON Dodge Caravan	No movement recorded
10	UXJ DRY Ford Ranger	No movement recorded
11	UXJ RUMS Battery Tank	No movement recorded
12	UXJ90 Mercedes Sprinter	02/12/15 23:02
13	SNKJ20A Mercedes Sprinter	24/02/15 11:23

Registration Number	Description
1	VNS1 VW Passat
2	VNS100 VW Passat 2.0TD Matchless

Non Tagging

The “Non Tagging” scheduled report looks at those vehicles that have been used in the previous 24 hours, but a Driver ID tag has not been detected. This could be adjusted if the user wanted to extend the time period, but it cannot be made shorter than one day. A description of the vehicle will be included.

The report is e-mailed only and can go to any number of e-mail addresses. Currently it runs for all of a customer’s drivers.

High Driving

The "High Driving" scheduled report looks for two pieces of information:

- Drivers who have used the vehicle for longer than a set time period.
- Trips that are longer than a set time period.

As with the other scheduled reports, the time period for which this report is run can only be the previous 24 hours. This setting cannot be changed.

The configurable parameters are:

Hours in the Day: The threshold in hours at which the report looks. Any driver over this threshold will show on the report.

Longest Trip: The threshold for the longest trip. Any driver who drives over this limit will be included on the report.

These parameters work independently of each other, so if either is breached, then the driver will be included on the report.

This report is e-mailed only and can go to any number of e-mail addresses. Currently it runs for all of a customer's drivers.

High Driving Hours email for		Quartix		
The following 4 driver(s) had high driving hours on 02/05/2016 where driving hours were greater than 1 hour(s) or the longest trip was greater than 1 hour(s).				
	Driver	Driving Hours In Period	Longest Trip	First Trip
1	COMMUNITY	3.44	1.34	23:85 (01/05/2016)
2	Driver 1	1.25	0.23	08:44
3	Driver 2	1.11	0.28	08:35
4	Driver 3	1.05	0.28	14:14

For those Quartix users who are often out of the office, there are multiple ways in which they can access the Quartix system.

In the past it would have only been possible to log on to our full website via any internet based mobile device. This would have given the user full access to the Quartix system.

For those users who required a trimmed-down version of the Quartix system, designed specifically for mobile devices, the Quartix app was created.

The app is available across the three major mobile platforms. There are currently no plans for a Blackberry-based app.



The Quartix App is free and available to any Quartix customer, regardless of the package to which they are signed.

In order to be able to login, the user must be a registered Quartix customer with a valid set of login credentials.

In order to download the Quartix app, the user should go to the respective "App store" for their device and search for "Quartix".



For Apple devices, they may need to switch their search from "iPhone apps" to "iPad apps".

Once the app has been located, the user will install it as they would any other app on the relevant platform. The Quartix icon will appear on their mobile device's desktop.

The Quartix App is simple to use and gives the user key information about their fleet. They can see the locations of their vehicles in real-time, as per the live tracking feature on the website.

They can also see the routes that their vehicles have travelled on the current day or on previous days, as well as view logs of their activities.

After the user selects the Quartix icon on their mobile device there is one thing to check before logging in.

In most cases, this will not need to be changed, but the user should double check that in the bottom right hand corner of the app, it says "Europe." This needs to be set for all users based in the UK. If it is set to USA, then it will connect to a different database, to which UK users do not have access.



Once the user has confirmed their region, they need to enter their login details.

As a registered Quartix user, they should have received these via e-mail from the Support team. If the user needs the details resent, or wishes to have additional users set up for the mobile app, they must e-mail support@quartix.net.

To access the mobile app, users will need to enter their:

SUBSCRIBERID

USERNAME

PASSWORD



If there are any issues logging in, the user should contact the Quartix support team.

When the user logs on to the app, it will default to the list of vehicles on the user's account.

Each vehicle will have the same icon that it has on the main Quartix website. Custom icons are not currently available on the app, so if any are used on the website, they will not show on the app.

For each vehicle, the customer can see information on what the vehicle is currently doing.

If the vehicle is travelling, the user can see the heading, speed, time, and the road on which it is driving.

If the vehicle is stationary, the user can see its location, plus the date and time that it stopped.



Clicking on a vehicle will change the screen. The vehicle will show at the top of the screen and below there will be a map with a marked point at the current location of the vehicle.

If the vehicle is stopped, there will be a circle with a white square in it.

If the vehicle is travelling, the circle will have a white arrow in it, facing the direction in which the vehicle is travelling.

Tapping the map makes the vehicle disappear from the top of the screen; the user must tap on the arrow pointing down to get the vehicle back on screen.

If the user wants to view another vehicle, they need to tap the "Vehicles" icon in the bottom left hand corner of the app.



When the user is on the map, they are able to zoom in and out by having two fingers on the screen and either pinching inward to zoom in or sliding their fingers apart to zoom out.

As they zoom out, they will notice that other vehicles appear on the map. These are marked by red circles.

Tapping on any of the red circles changes the vehicle selection to that vehicle. The new vehicle that has been chosen will be visible at the top of the app.



If the user wants to view the trips that a vehicle has taken, they must tap on the "trips" icon that is in the bottom right hand corner of the app. This shows the first trip of the current day for the currently-selected vehicle.

At the top of the map there is information on the "depart" and "arrive" times and locations of the trip.

There are two dots just above the trip information. Users can slide the top section left and right depending on which dot is bolded.

Doing so gives the user extra information, such as:

- Time Travelled
- Idle Time
- Distance Travelled
- Average Speed



The black boxes with white chevrons at either side of the map allow the user to move between trips.

If the user taps on the map, the vehicle information and the black boxes disappear from the screen. Tapping again brings them back.

If the user taps on a specific data point, a pop-up appears giving them the time the data point was recorded, and what the vehicle was doing.

When the user is on the map, they are able to zoom in and out by having two fingers on the screen and either pinching inwards to zoom in or sliding their fingers apart to zoom out.



The app is not limited to viewing information for the current day.

When in the trips section for a vehicle, the user can tap on the calendar icon in the top right hand corner of the app. This will bring up a scrolling list of dates, as shown in the image to the right (iPhone version).

The user can then select the date they are looking for and tap on "Done".

If they wish to go back to the current day, they can tap on the calendar icon, then tap on "Today", and then "Done".



The user does not need to log out of the app when they have finished checking on a vehicle. However, if they do (and they might want to login as a group-specific user for this reason) then they must tap on the "vehicles" icon in the bottom left hand corner of the app and then tap on the cog icon in the top right hand corner.

This will bring up the option to "Sign Out".

The Quartix Dashboards feature can be accessed from the main application menu. When the Dashboard option has been selected, the user will be presented with a blank dashboard and a number of options for creating, selecting, saving and sharing dashboards.

Several options are available for creating and saving a new dashboard.

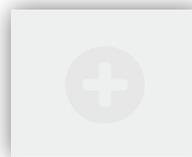


Create new

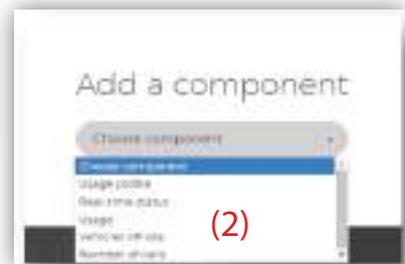
This option is selected when the user clicks the 'Create New' button. At this point the window below will be presented, allowing the user to enter a name for the dashboard and select one of the optional dashboard types: either the default dashboard or a completely blank dashboard.

As an alternative option, the user can simply start adding components to the blank dashboard and then select Save As in order to save the dashboard with a new name. To add a new component, click on the large plus sign in the dashboard screen (1), then select a component from the dropdown list (2).

When the components have been added, the dashboard can be saved by selecting Save As. At this point the user will be prompted to name the dashboard and Save or Cancel.



(1)

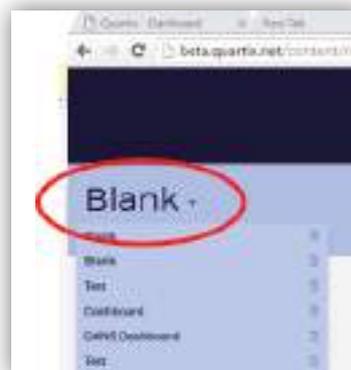


(2)



Selecting a Dashboard

An existing dashboard layout can be selected from those already saved. To do this, the user would click on the dashboard name in order to select the drop down list. This will be 'Blank' when opening the dashboard for the first time.



The dashboard can be displayed in full screen mode by selecting the double arrow option in the top left of the screen. This will minimise the banner section to allow a full screen dashboard view. Clicking the option button again will toggle the display back to normal view.



It may be necessary for a customer to share the standard dashboards between users. Besides saving the dashboard, there is also a feature to enable the user to do this. To share a dashboard, the user will click the "Share" button at the top and select the user(s) with whom the dashboard will be shared.

When a dashboard is shared with another user, it will appear in their drop down list of dashboards with a small curved arrow icon to indicate that it has been shared. Any changes to the configuration of the components or the layout of the dashboard will be shared by any users with whom the dashboard has been shared. In addition, if the dashboard is deleted (by clicking the bin icon next to the name), it will be deleted from the list of any users who also have access to it. However in this situation, a message will be displayed prior to deletion.



Saving Dashboards

Dashboards can be saved when they are new, or the layout or configuration of one of the components has changed. There are two ways to save a dashboard.

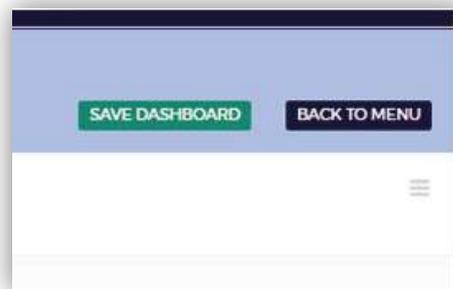
Save As

This feature will create a new version of the current dashboard and save it under a new name (input by the user). This option is on the top left of the dashboard screen.

Save Dashboard Button

This option is available when a dashboard has been already saved and given a name. The button on the top right of the dashboard display is normally greyed out unless there has been a change to the dashboard layout or configuration of one of the components. The Save Dashboard button is available after any change to the screen or layout.

When the user has clicked on the Save Dashboard button, the dashboard will be saved and the button will become greyed out again.



Dashboard components contain common features such as date range selection and vehicle/group selection. Some common features are not applicable to all dashboard components. For example, date range selection is not applicable to a component such as Real-time Status, because it only looks at the current data. The following section describes the common features which may be found on individual components.

Date range selection

For those components which are applicable for date range selection, the user can click on the date range options at the top left of the component and select from the options available, for example, today or this week. "Today" is the default for most of the components. Selecting one of the options will change the date range for the component. This configuration will be saved when the dashboard is saved.



Vehicle/Group Selection

By default, the components will display data for all vehicles. However, if the user clicks on the "All Vehicles" selection option, the list of vehicles/groups will be displayed. The appropriate vehicle/group can be selected in order to limit the view of this component to a specific vehicle or group.



Options Icon

At the top right hand side of each dashboard component is an icon composed of three horizontal lines. When this is selected, icons for additional options will be displayed. Select the X to hide the icons.

The icons are as follows:



Help: Provides helpful information about each component, its features, and configuration.



Configure: Provides access to the configuration settings for each dashboard component. It may be greyed out as configuration settings are not available for all dashboard components.



Drag to Move: Enables the user to move the dashboard component tile to a different position on the dashboard. The other dashboard components will be moved around automatically when this option is used.



Delete: Deletes the dashboard component and all its settings from the dashboard. Care must be taken when using this on a shared dashboard, as selecting it will delete the dashboard component and its settings for all users who share this dashboard.

Dashboard Components Terminology

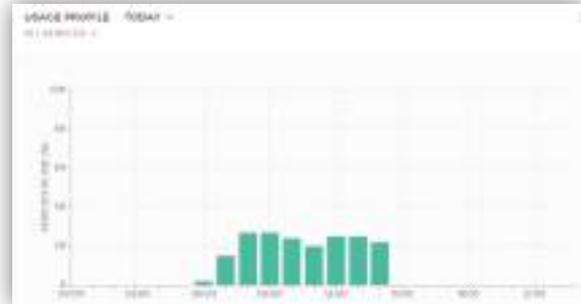
Term	Definition
Moving	Ignition on and non-zero speed
Stationary	Ignition on and zero speed
Overnight Location	Location where vehicle is parked overnight (ignition off)
Off-site	Location of event more than a customisable distance away from overnight location
Parked Off-site	Ignition off at a location which is off-site
Parked On-site	Ignition off at the overnight location

Usage Profile

This component shows the percentage of vehicles in use for each hour of the current day when used for the current live status, or each day of the week if selected. The user can select the Usage Profile for Today or This Week from the drop down option as well as selecting different vehicles/groups or All Vehicles.

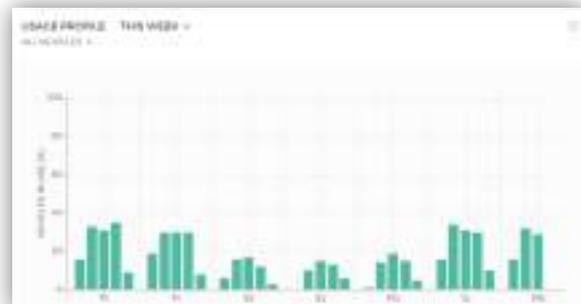
The charts show the usage profile either for today in each one hour period or for this week in each four hour period, depending on the option selected. Each chart will display the number of vehicles with any movement events, shown as percentage of selected vehicles in each period. A Trip event is one with an ignition-on, plus movement beyond the trip threshold value (default is 250m).

Clicking on any bar will list the vehicles in use and not in use during that period, in separate scrollable lists. The user will then be able to click on a vehicle to view the daily log (for used vehicles) or latest location (for unused vehicles).



Usage Profile – Today

This view shows the usage profile today in each one hour period.



Usage Profile – This Week

This view shows the usage profile for this week in each four hour period.

Number of Calls

This component is a speedometer/dial showing the number of calls (off-site stops) made compared to a target. The user can select the Number of Calls for Today or This Week from the drop down option as well as selecting different vehicles/groups or All Vehicles.

A 'Call' is deemed to be a stop at a different place from where the vehicle was kept at the start of its shift. For the required time period, count the number of stops that are not at the overnight location.

The user will need to define a target for the number of calls per vehicle, and the total calls will be calculated from that and the number of vehicles. The scale will be from 0 to twice the target level which will be displayed at the top of the chart.



Until the 'Alert Start Time' the dial will show neutral colours for the number of calls. Once the alert start time has been reached, the dial will show an alert colour below the target level, and a neutral colour above it. For example, the chart in green shows the situation when the number of calls is above the target, whilst the chart in red shows the alert situation when the number of calls is below the target.

If a vehicle is off the road due to maintenance then this will affect the group reporting for figures for this dashboard component. The administrator would have to either remove the vehicle from the group or change the reporting parameters to reflect the new target.

The Number of Calls component can be configured according to the user's needs.

Parameter	Description	Default
Earliest alert time	This is the earliest time at which the alert will be displayed. This will avoid having alerts at the start of the day when all vehicles will be below target.	12:00
Target level (calls per day per vehicle)	The target number of calls per vehicle in a day.	20
Calls Included <ul style="list-style-type: none"> ● Include stops with ignition on ● Ignition off only 		Ignition-off only

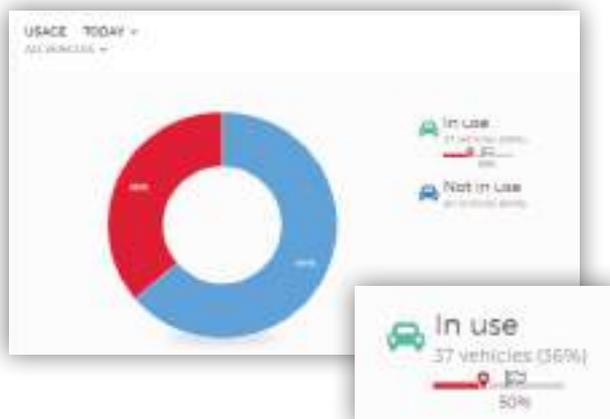


From the chart, the user can bring up a list of calls per vehicle, in ascending order of number of calls or a list containing links to the Daily Log and Route Map for each vehicle.

Usage

This component is a pie chart showing vehicles used and unused over a period of time. The user can select the Usage for Today or This Week from the dropdown option as well as selecting different vehicles/groups or All Vehicles. The component will show the percentage of vehicles in use/not in use on the dial, plus the actual number of vehicles in use/not in use on the legend.

Before the alert start time, both sectors will be a neutral colour. If the required target has not been met at or after the alert start time, the 'In use' vehicle sector will be displayed in red to indicate the alert, whilst the 'Not in use' sector will be displayed in blue.



For example, if the target utilisation is set to 50%, however the actual utilisation is 36%, then this sector will be displayed in red. The 'In use' sector will only be displayed in green when the utilisation target has been met (For a weekly chart, the alert condition will be based on the daily average for the week so far exceeding the target value).

This view shows the usage pie chart when there is an alert status. In other words, this shows that 36% of vehicles are in use, the target utilisation has been set to 50% and therefore an alert condition.

The small alert flag symbol shows the target flag at 50% and the relative position on the scale bar of the actual utilisation percentage, currently at 36%. This latter indicator provides a visual reference of the actual value to the target value.

The Usage component can be configured according to the user's needs.

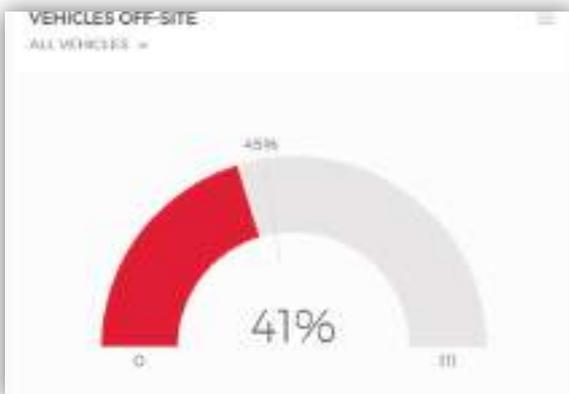
Parameter	Description	Default
Earliest alert time	The earliest time at which the alert will be displayed. This will avoid having alerts at the start of the day when all vehicles will be below target.	12:00
Utilisation target above	The target percentage of vehicles utilised	80%



Clicking on any sector will list the vehicles In Use and Not in Use during that period, in separate scrollable lists. The user will then be able to click on a vehicle to view the live tracking or daily log for that vehicle.

Vehicles Off-Site

This component is a speedo type dial showing the number of vehicles that are away from their overnight location, to give a measure of fleet activity. The user can select the Vehicles off-site for different vehicles/groups or All Vehicles by selecting the drop down option. For a vehicle to be considered 'Off-Site' its latest event must be at a different place from the overnight location. The scale will be from zero to the number of vehicles in the selected group. There are two sectors, above and below the number of vehicles defined as the target percentage.

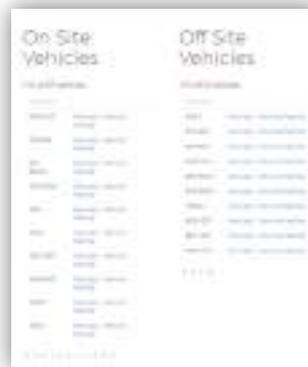


If the alert conditions are met within the alert period, the dial will show an alert colour below the target level, and a neutral colour above it.



Parameter	Description	Default
Alert start time	This is the earliest time at which the alert will be displayed. This will avoid having alerts at the start of the day when all vehicles will be below target.	10:00
Alert end time	This is the latest time at which the alert will be displayed. This will avoid having alerts at the end of the day when all vehicles will be returning to the depot.	16:00
Off-site Target	Target for % of vehicles offsite during the alert period	50%

Clicking on any bar will list the vehicles on-site and off-site during that period, in separate scrollable lists. The user will then be able to click on a vehicle to view the live tracking or daily log for that vehicle.



Real-Time Status

This component shows the current status of all vehicles in a selected set, derived from the latest event for each vehicle. If a vehicle is parked, then it will be deemed to be off-site if there has been a trip recorded that day. The user can select the Real-Time Status for different vehicles/groups or All Vehicles by selecting the drop down option.



The chart below shows the Real-Time Status with one of the alert conditions met – in this case, the Parked On Site alert. Note the small flag alert icon below the Parked On Site legend. This shows that the percentage of vehicles parked on site is 90%, however the maximum target for this is set to 80%. Therefore the icon below shows on a scaled view the target flag at 80% and the actual value in red, exceeding this slightly. This gives a visual indication of the actual value against the target.



Clicking on any sector will list the vehicles listed in that sector in a scrollable lists. The user will then be able to click on a vehicle to view the live tracking or daily log for that vehicle.



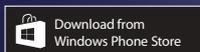
Parameter	Description	Default
Alert start time	The earliest time at which the alert will be displayed. This will avoid having alerts at the start of the day when all vehicles will be below target.	10:00
Alert end time	The latest time at which the alert will be displayed. This will avoid having alerts at the end of the day when all vehicles will be returning to the depot.	16:00
Moving above	Target % of vehicles to be considered moving at the current time. If actual percentage falls below this value then there will be an alert condition.	30%
Stationary below	Target % of stationary vehicles, if actual percentage value goes above this, then there will be an alert condition.	10%
Parked Off-Site below	Target % of vehicles Parked Off-Site, if actual percentage value goes above this, then there will be an alert condition.	20%
Parked On-Site below	Target % of vehicles Parked On-Site, if actual percentage value goes above this, then there will be an alert condition.	40%

Quartix

Award-Winning Vehicle Tracking

VEHICLE TRACKING APP

Available for **free** to all Quartix users



Quartix Ltd.
Chapel Offices
Park Street
Newtown, Powys
SY16 1EE

Quartix Ltd.
Wellington House
East Road
Cambridge
CB1 1BH



www.quartix.net



www.quartix.fr



www.quartix.com