SEVEN
TELEMATICS

QUICK START
WEBSITE GUIDE

Contents

Introduction

This Quick Start Guide gives a brief introduction to using the new Seven Telematics Seven Eye website. It describes how to view the whereabouts of tracked assets, together with associated information such as temperature, switch and CANbus data.

New management-oriented functionality is also described, including the Seven Eye Dashboard, the Fleet League Tables, the Reporting Suite and the custom reporting capability that's available via the powerful new SevenEye Report Writer.
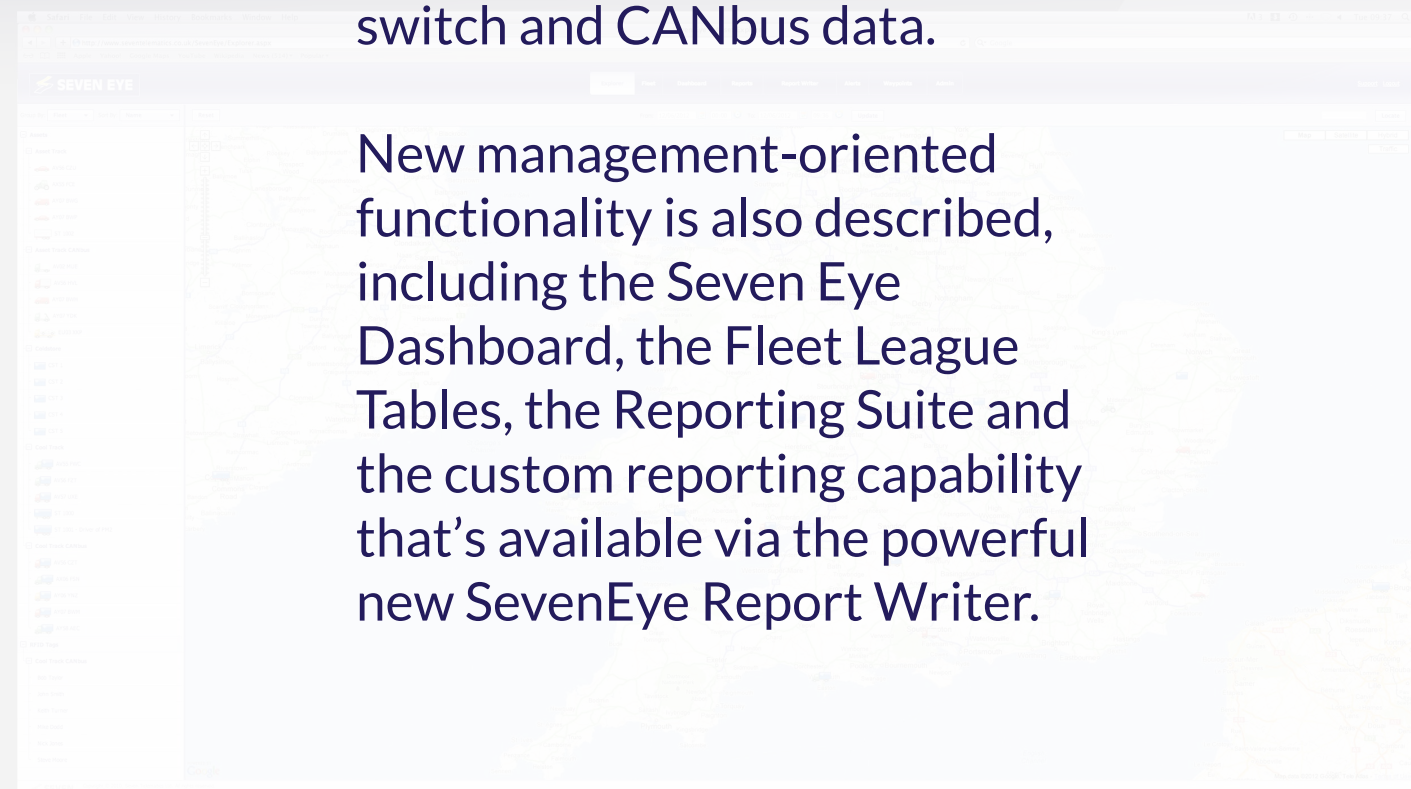
Logging In

The Seven Eye website is available at:

http://www.seven**telematics.co.uk/seveneye/**

Each customer has a super-user login whose user name and initial password is provided by Seven Telematics.

This super-user can create additional logins, where the fleets and functionality available to each login can be easily defined.

The super-user can also change the password of any of their logins, including their own.

User names and passwords are case-sensitive.
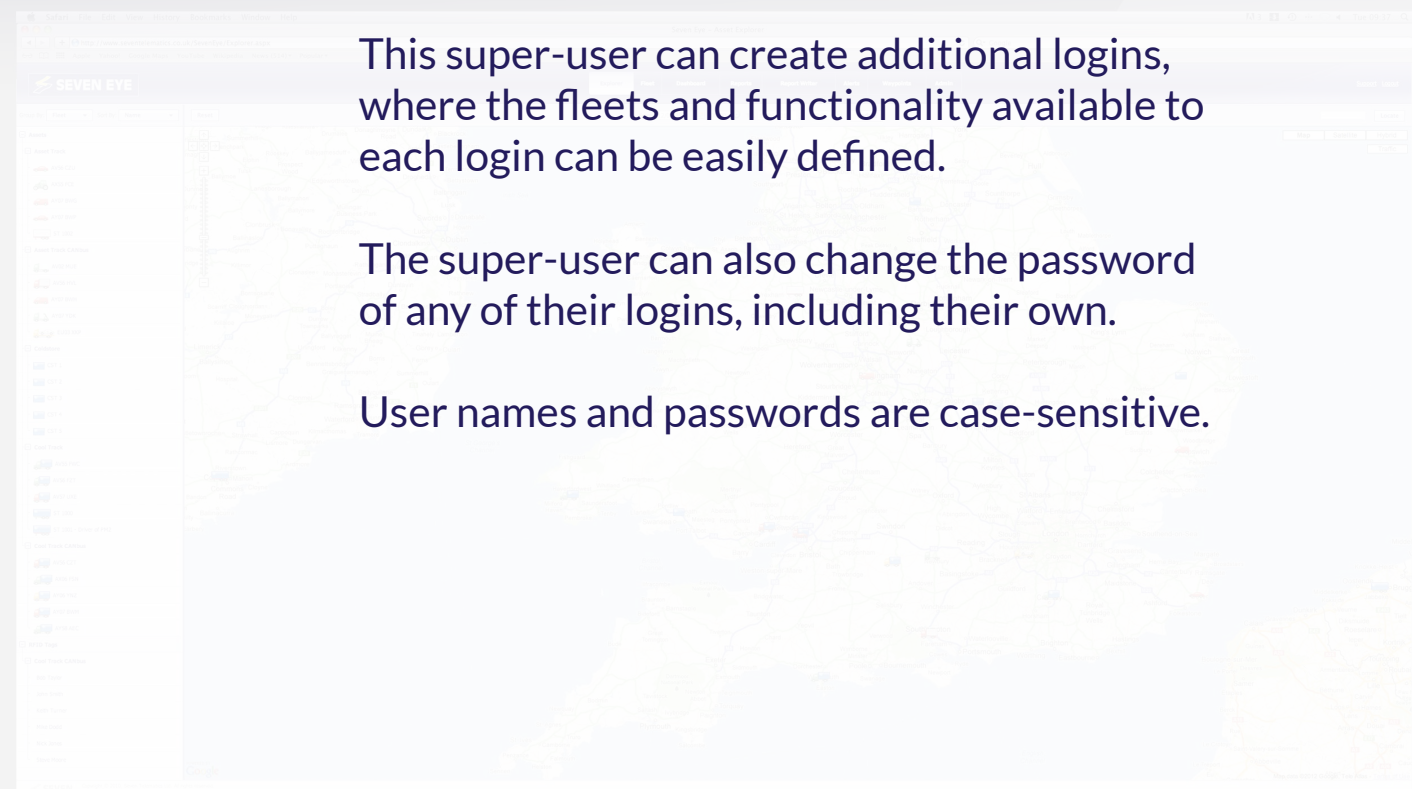
The new Seven Eye website incorporates world-class mapping technology from Google Maps. This provides frequently updated world-wide mapping coverage, together with standard Google Maps' features such as satellite photography, draggable panning and detail down to street level.

To switch between the map, satellite and hybrid (i.e. satellite imagery with labels) views, use these buttons at the top right of the map pane:
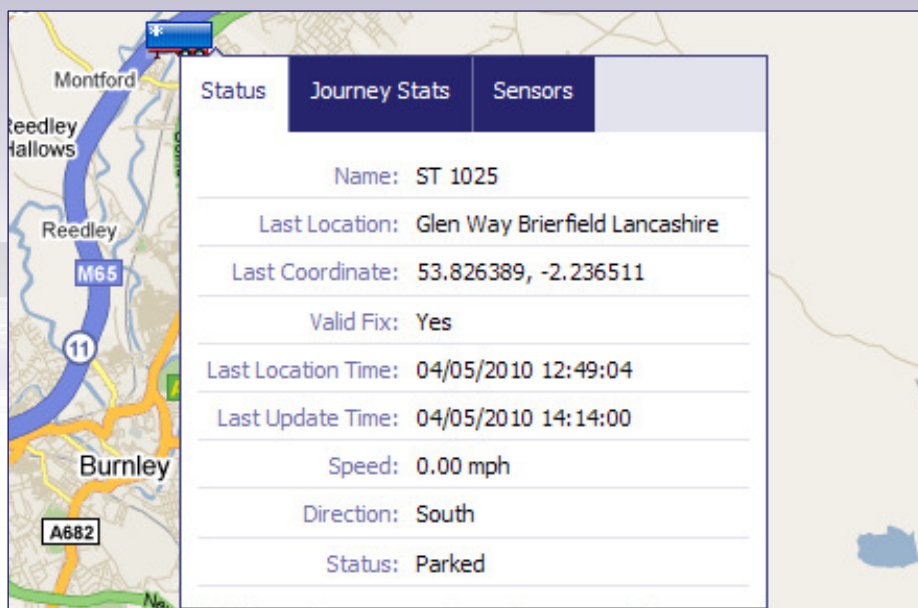

Above these in the map pane toolbar is the Locate edit box. This can be used to quickly position the map at street level at a specific place.
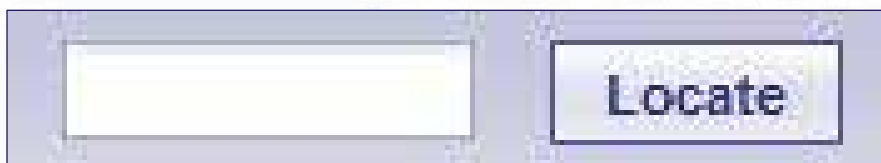
It will accept either a postcode, a latitude, longitude coordinate or a place name.

Pop-ups

Hovering over an asset icon on the map displays a pop-up with current journey status and temperature/switch status (for assets with TranScan temperature recorders attached):

Pop-ups also appear when hovering over waypoint icons:

Waypoint icons are indicated by a "C" for Customer waypoints, a "D" for Depot waypoints and a "W" for all other waypoint types. They are visible in street level map views only, in order to avoid clutter at higher levels in the case where customers have many hundreds or thousands ofwaypoints.

Asset Icon Context Menus

Using the mouse to right-click an asset icon on the map invokes a context menu that allows asset data such as snail trails, temperature charts and CANbus data to be viewed. Map operations such as zooming and centering can also be performed from here:
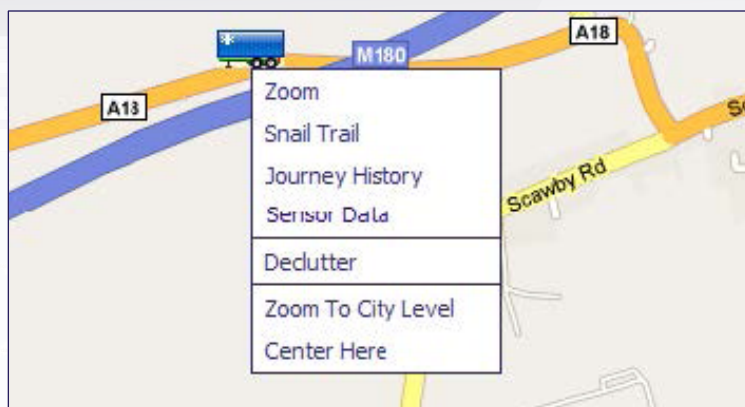

For example, selecting "Snail Trail" from the right-click context menu shows the positions of an asset over a period of time. This time period is user configurable and can be set using the date and time controls in the map pane toolbar:

Pressing the Reset button on the Map pane returns the map to its global view of all assets at the current point in time.
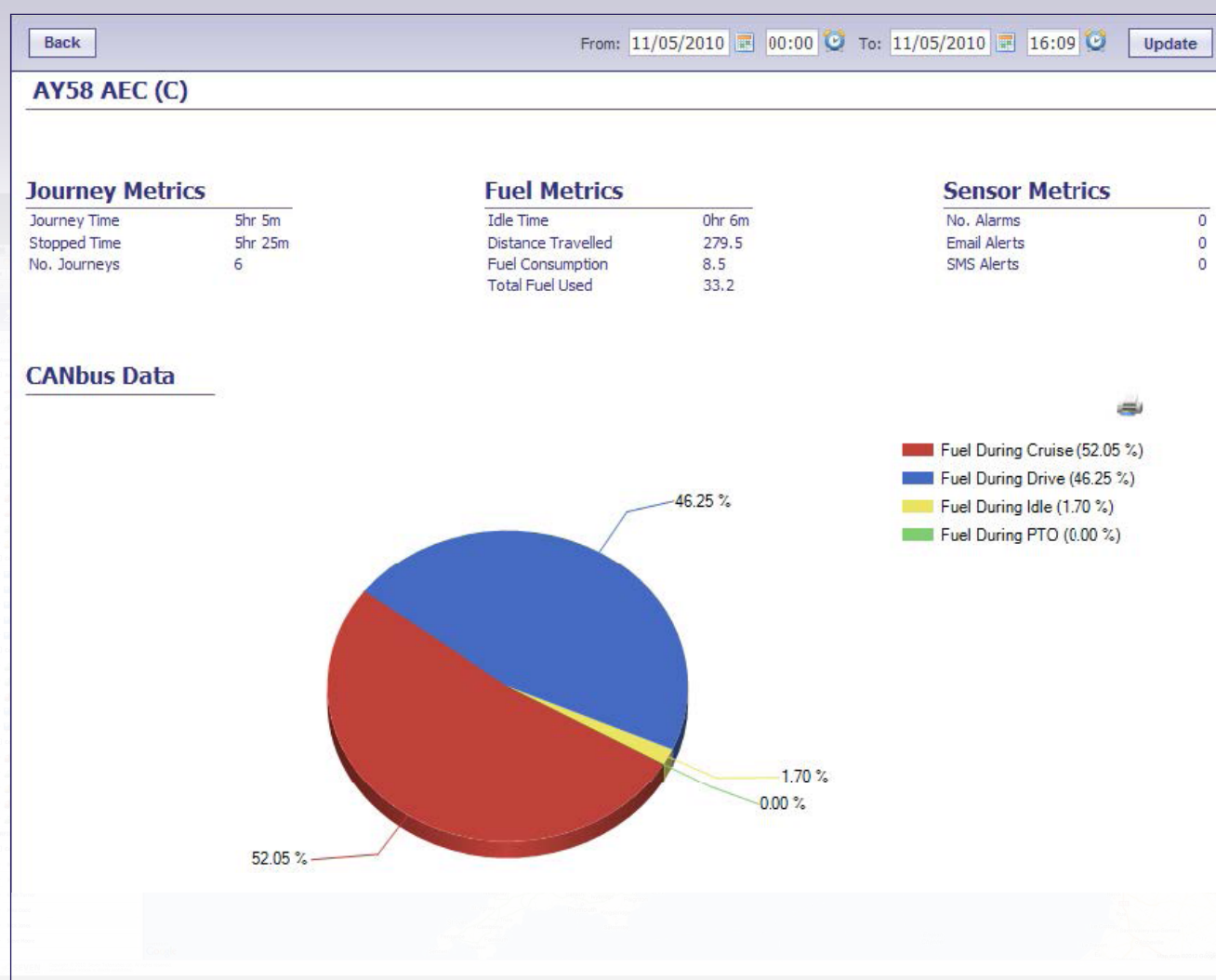
Asset Icon Context Menus

Selecting "Sensor Data" from the context menu shows any temperature, switch and/or CANbus data available, together with a summary of journey information for the selected asset. This example shows temperature data:
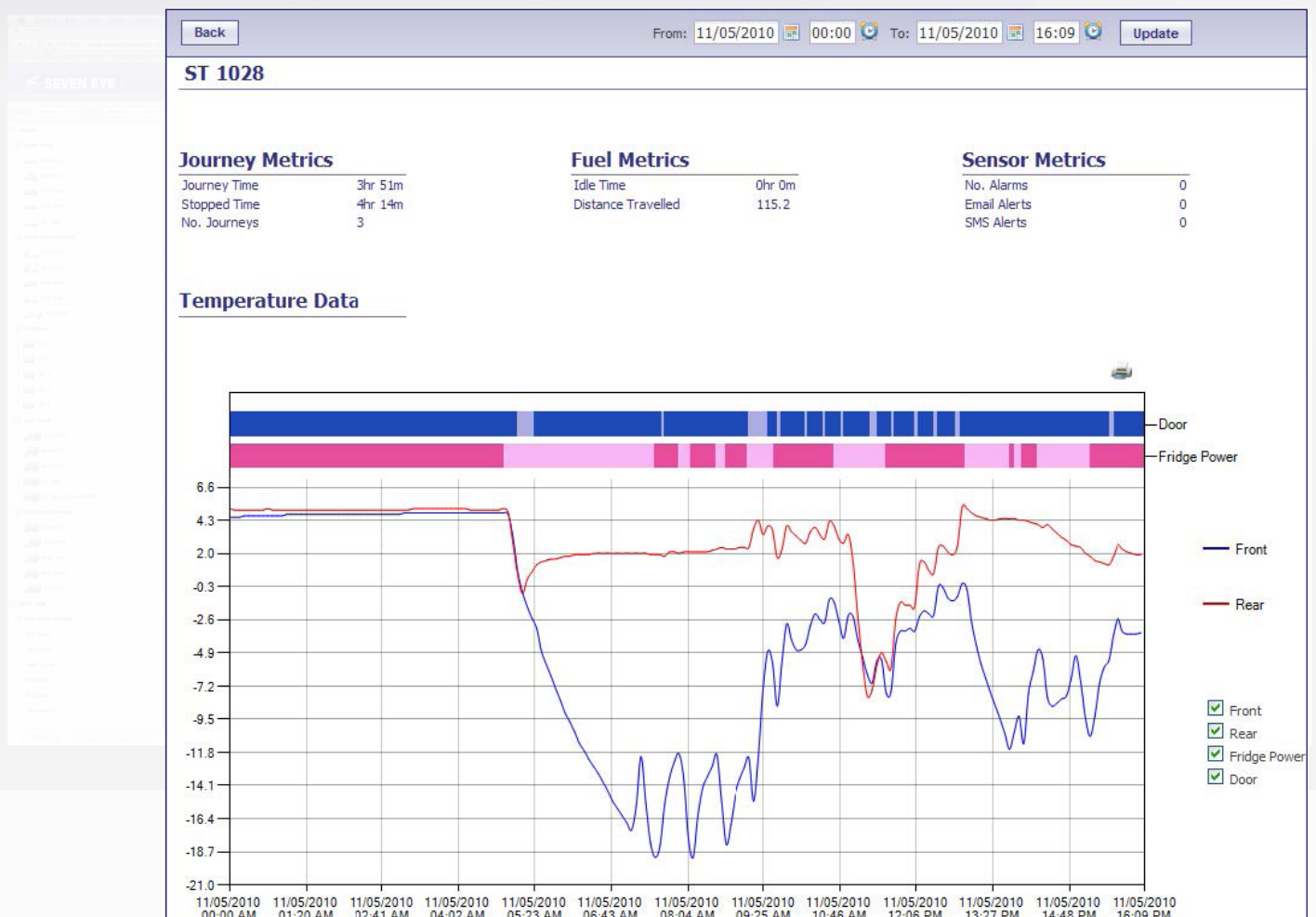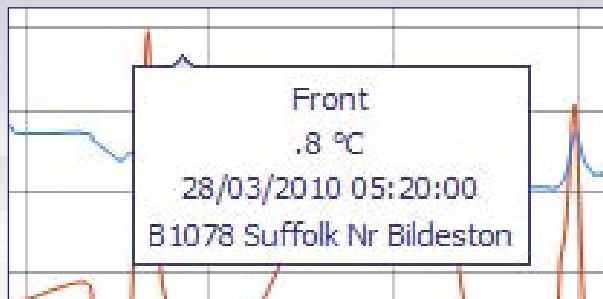
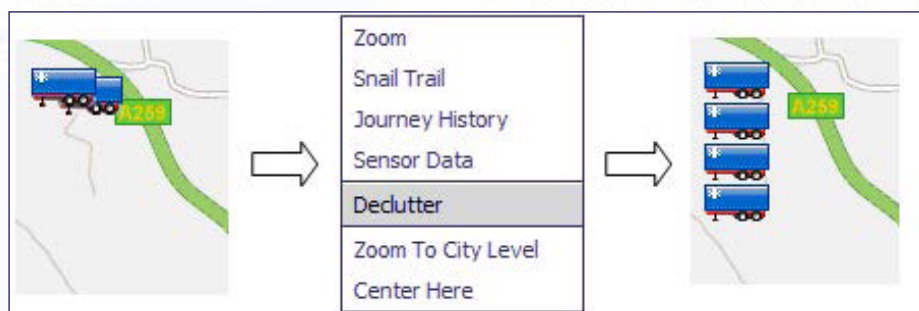# Asset Icon Context Menus

This shows CANbus data:

The time period over which this data is displayed is user configurable and can be set using the date and time controls in the Sensor Data toolbar at the top of that screen.

Asset Icon Context Menus

Using the mouse to hover over points on the temperature chart displays a pop-up containing detailed information:


Selecting "Declutter" from the context menu when right-clicking overlapping asset icons repositions them so that they don't overlap, such that each asset at that location can clearly be seen. Examples of asset icons before and after a declutter are:
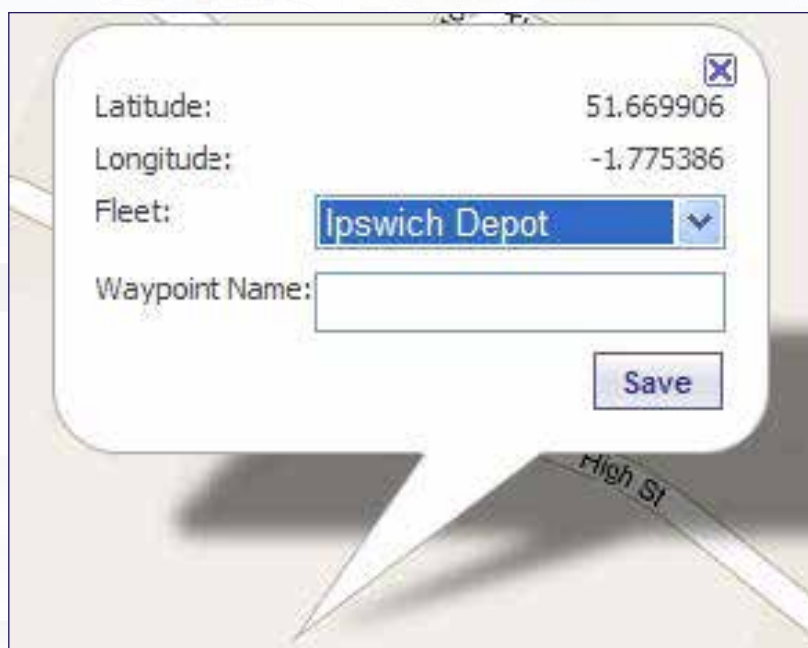
Map Context Menus

In addition to asset icon context menus, right-click context menus are available at any point on the map. These give fast map panning and zooming options, and at street level allow waypoints to be created:
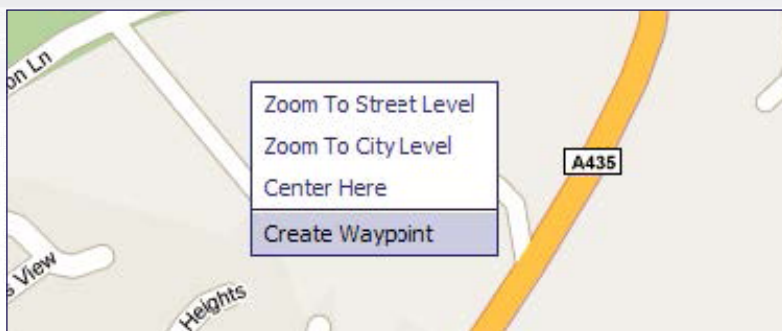
Selecting "Create Waypoint" allows the name of the waypoint to be entered, and also the fleet to which it should be assigned:

Asset List

The new asset list provides multiple grouping and sorting options to facilitate the management of large fleets:
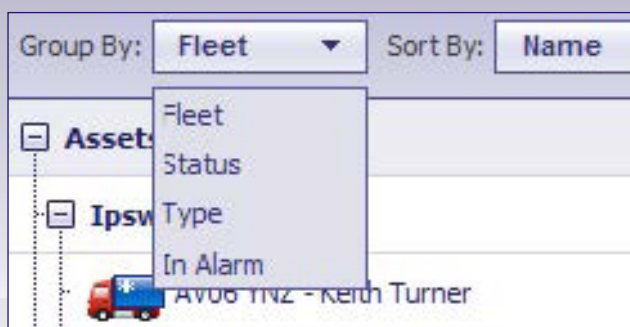
Assets with sensors that have alarm conditions and which are currently in alarm are highlighted in the asset list with a pink background, to help alert the user of their status.

Hovering over asset icons in the asset list invokes exactly the same pop-ups as can be seen on the map, e.g.

Asset List

and using the mouse to right-click icons in the list
also invokes context menus that can be used
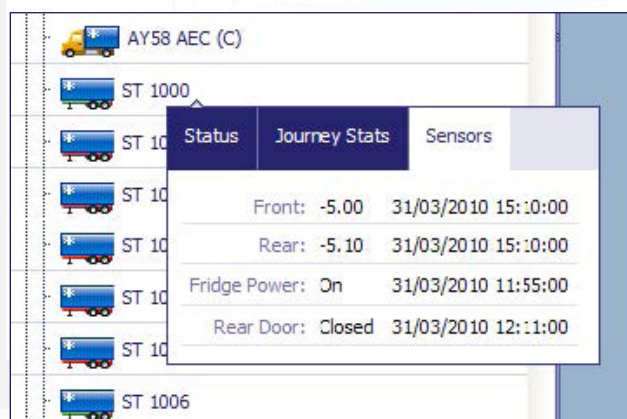to zoom into the map at street level and view snail
trails, temperature charts and CANbus data:
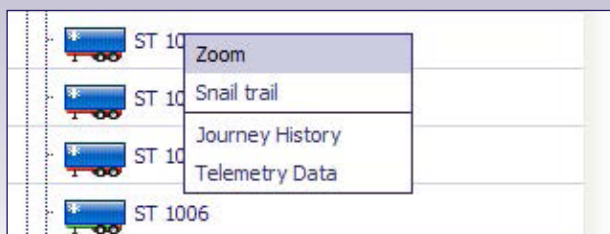
So selecting "Zoom" above will change the map to a street
level view of just the asset that has been right-clicked.

If a customer has RFID tags for their trackers, then the list
of tag names is displayed underneath the asset list, e.g.
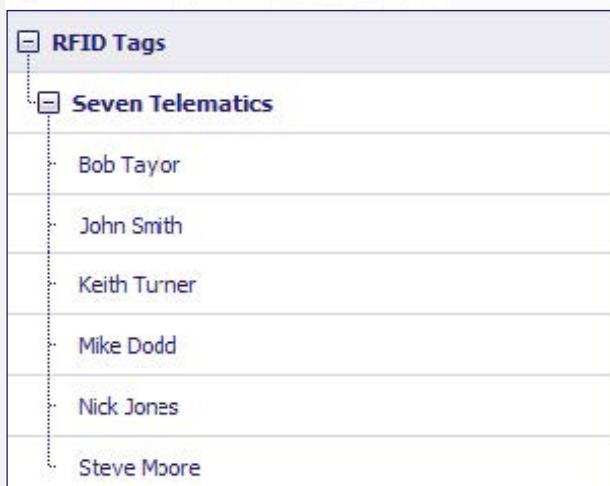
Whenever an RFID tag is detected by a tracker, the name of the
tag is appended to that tracker's asset name in the asset list.

Fleet Tables

The Fleet Status and Fleet Metrics screens
provide tabular views of a fleet's telemetry data.

Fleet Tables

The Fleet Status table is a point-in-time snapshot that
shows the latest telemetry data available for the fleet,
that can be filtered or sorted (by clicking on column
headers) to quickly identify vehicles in various states,
e.g. moving, stationary, parked or in alarm.

Additionally, assets with sensors can be expanded to
view current sensor information:

	Name	Icon^	Status	Fleet	Last Update	Location
+	ST 1010		Parked	Newark Depot	31/03/2010 14:26:00	Albion Street Newark Nottinghamshire
+	ST 1011		Parked	Newark Depot	31/03/2010 14:34:00	Waterworks Street Ipswich Suffolk
−	ST 1012		Moving	Newark Depot	31/03/2010 14:30:00	M1 Leicestershire Nr Whitwck

Name	Time	Reading	In Alarm
Front	31/03/2010 14:50:00	1	No
Rear	31/03/2010 14:50:00	1.4	No
Fridge Power	31/03/2010 14:24:00	Off	No
Door	31/03/2010 13:54:00	Open	No

	Name	Icon	Status	Fleet	Last Update	Location
+	ST 1013		Moving	Newark Depot	31/03/2010 14:26:00	A18 Lincolnshire Nr Scawby
+	ST 1014		Parked	Newark Depot	31/03/2010 14:30:00	Hamilton Way Stowmarket Suffolk

The last reported location for assets are shown and are hyperlinked.
Clicking on these hyperlinks changes the current screen to a street level
view of the asset's current location on the map.

Asset details can be edited here also, by clicking the edit
link in the Edit column, so customers can edit the names
of their assets, which icons are displayed for them and
which fleets they belong to:

Edit Asset

Name:

ST 1010

Fleet:

Newark Depot

Icon:

Fleet Tables

Fleet Metrics Table

The Fleet Metrics table contains data calculated over a user-defined time range for each asset in the fleet. It can be sorted on any column to provide a league table that shows cost saving data such as best and worst idle times and (for CANbus enabled trackers) best and worst MPG. The time and date range for these calculations are user-defined, via the metrics table toolbar:

The set of assets displayed in these league tables is determined by the selections in the "Filter" and "Selection" combo-boxes at the top of the screen:

An example Fleet Metrics table, sorted by Idle Time, is:

Asset	Jny Time (Hrs)	Stopped Time (Hrs)	No. Journeys	Idle Time (Hrs) ⌄	Distance
AV06 YNZ	23.40	12.80	16	5.30	780.84
AV56 CZT	13	18.10	39	4.20	207.27
AV56 HVL (C)	13.80	7.80	12	3	537.50
AV57 UXE	5.40	16.60	17	2.30	38.63
AX06 FSN (C)	6.70	3.90	17	1.40	30.30
AY58 AEC (C)	18.90	17.50	23	0.90	488.70
AV55 FWC	3.40	10.50	14	0.20	98.62
AX55 FCE (C)	4.80	1.50	4	0.10	169.30
AY07 YDK	2	4.90	9	0.10	47.42
AV56 FZT	0.30	1.80	5	-	4.31
ST 1000	4.70	5.30	10	-	226.45
ST 1001	2.30	16.50	6	-	99.23

Fleet Metrics tables can be printed, by pressing the print icon at the top-right of the screen.

Dashboard

The Seven Eye Dashboard provides a management level overview of current fleet status. All metrics are hyperlinked and so can be drilled into to analyse points of interest in more detail:

Status Snapshot			Whereabouts Snapshot			Journey Summary	
Moving	13		At Depot Waypoint	6		Distance Travelled	3493.70
Stationary	1		At Customer Waypoint	1		Journey Time	122hr 10m
Parked	34		At Other Waypoints	2		Idle Time	6hr 51m

Activity Summary			Exceptions			Alerts	
Vehicles Active	38		Longest Distance	ST 1027		In Alarm Now	1
Vehicles Inactive	10		Longest Journey Time	ST 1021		Email Alerts Sent	7
			Longest Idle Time	AV57 UXE		SMS Alerts Sent	0

An example of part of the detail table produced by drilling into the "Longest Idle Time" metric is:

|			
31/03/2010 12:21:51	Southampton Hampshire	Journey End	
31/03/2010 13::6:44	Southampton Hampshire	Journey Start	
31/03/2010 13:27:00	Southampton Hampshire	Location Update	
31/03/2010 13:30:59	.7 Mi South of 70 Parkside Ave, Southampton, Hampshire SO16 9	Over-Idle	7 nins
31/03/2010 13:37:04	Southampton Hampshire	Location Update	
31/03/2010 13:47:10	Western Avenue Southampton Hampshire	Location Update	
31/03/2010 13:57:15	Western Avenue Southampton Hampshire	Location Update	
31/03/2010 13:58:38	1.1 Mi South East of 70 Parkside Ave, Southampton, Hampshire SO16 9	Over-Idle	10 mins
31/03/2010 14:05:10	1.1 MI South East of 70 Parkside Ave, Southampton, Hampshire SO16 9	Over-Idle	6 nins
31/03/2010 14:07:21	Western Avenue Southampton Hampshire	Location Update	
31/03/2010 14::7:26	Halter & Co. Food Supplies	Location Update	
31/03/2010 14:27:17	1.2 Mi South East of Totland Close, Southampton, Hampshire SO16 9	Over-Idle	8 nins
31/03/2010 14:27:31	Halter & Co. Food Supplies	Location Update	
31/03/2010 14:39:22	Southampton Hampshire	Location Update	
31/03/2010 14:49:29	Southampton Hampshire	Location Update	
31/03/2010 14:59:33	Halter & Co. Food Supplies	Location Update	
		Idle Time Total	14) mins

All drilldown tables can be printed by pressing the print icon at the top right of the screen.

Dashboard

The Dashboard contains a mixture of point-in-time information (e.g. "Status Snapshot" and "Whereabouts Snapshot") and information that spans a date/time range (e.g. "Journey Summary" and "Exceptions"). The date/time range for the latter is configurable, by using the "Period Start" date and time controls.
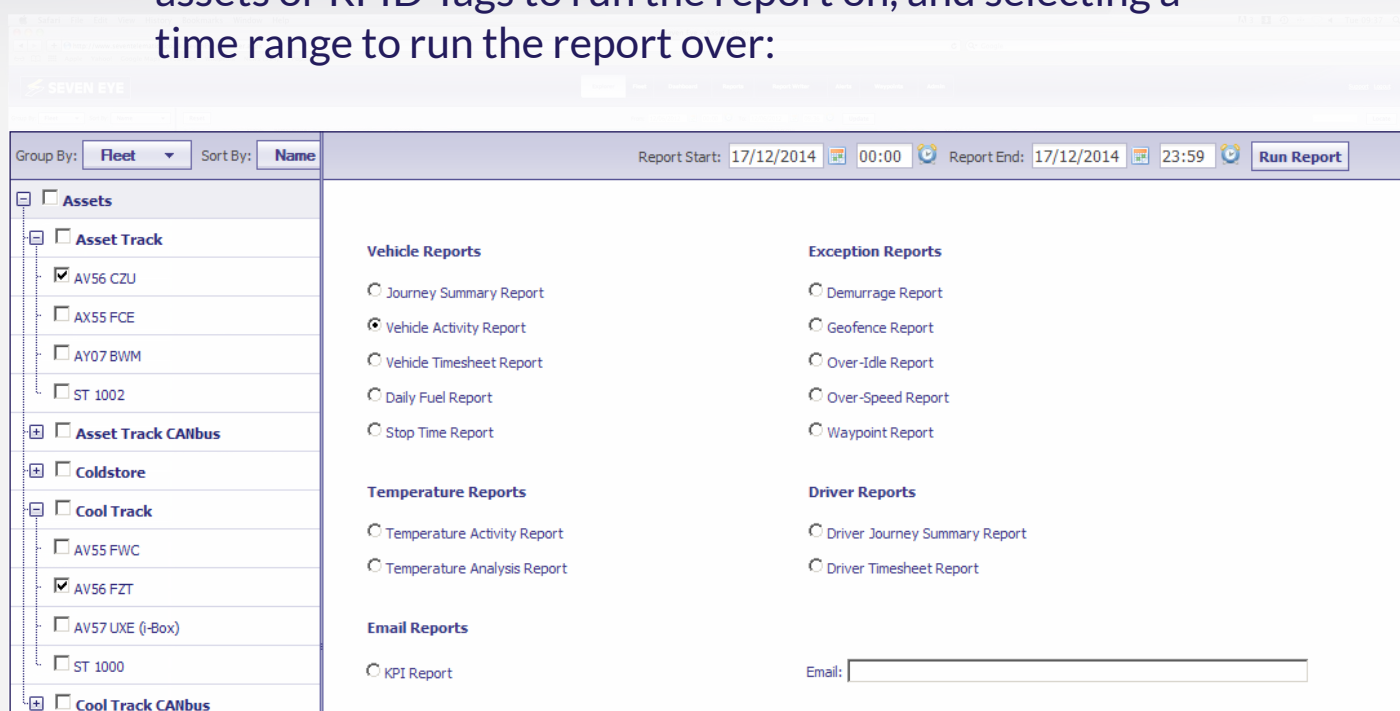
For customers with multiple fleets, the Dashboard can optionally be viewed per fleet, by changing the selection of the "Fleet" combo-box at the top left of the screen:
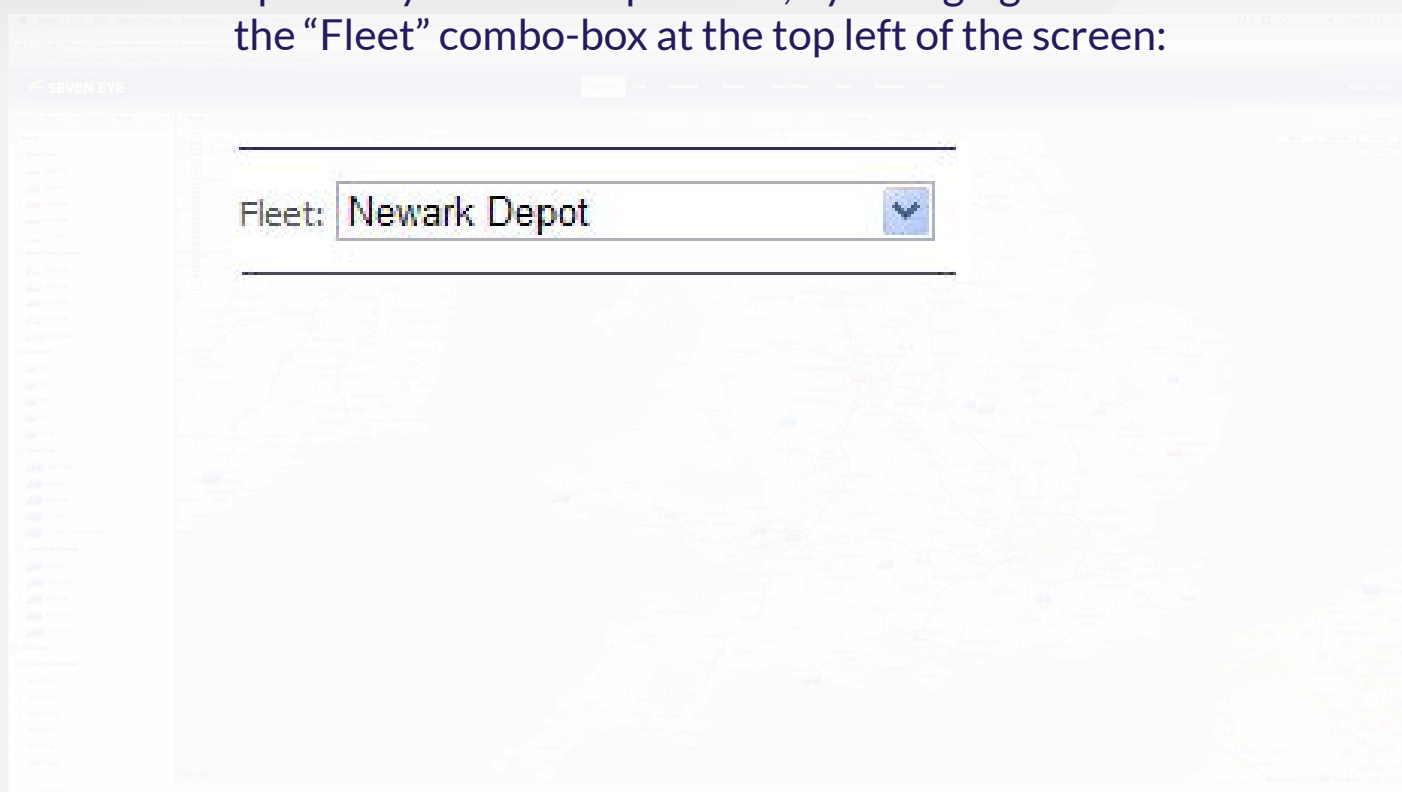
Reports

The Reports tab contains a set of standard reports offered to all customers. These reports have all been created using the new Seven Eye Report Writer and so can be customised by users if they wish, by editing the report definitions in the Report Writer. Brand new custom reports can also be created this way.

Reports are run by selecting a report name, selecting the assets or RFID Tags to run the report on, and selecting a time range to run the report over:

Reports are sortable on any column by clicking on column headers, and can be printed and exported to Excel and PDF.

Reports

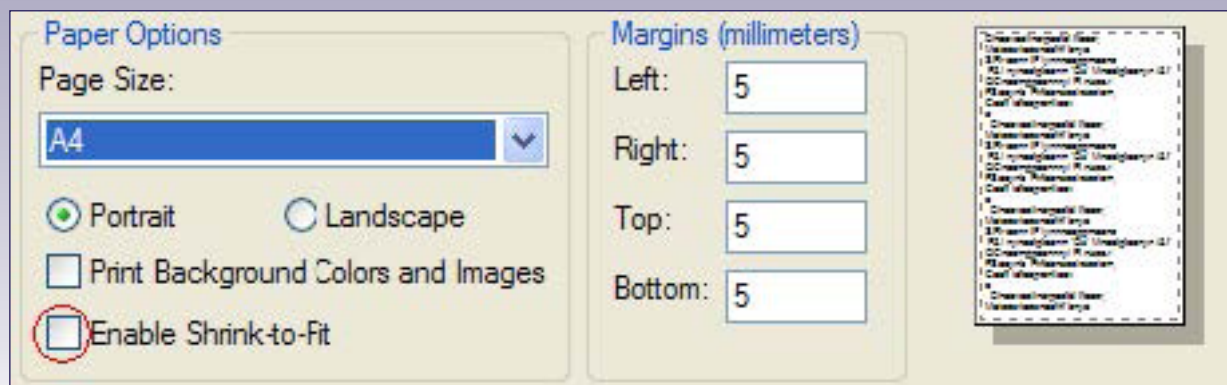An example of the Journey Summary Report is as follows.

All reports can be printed by clicking on the printer icon in the Reports tab toolbar.

Internet Explorer 8 configurations with the "Enable Shrink-to-Fit" feature enabled print the reports in a small font by default. To increase the font size, go to the Internet Explorer 8 "Page Setup…" dialog:
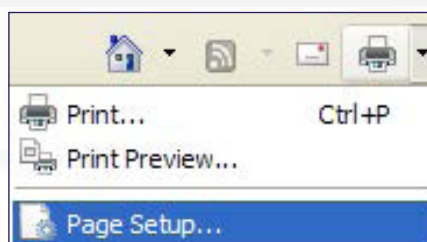
Reports

Ensure that the "Enable Shrink-to-Fit" checkbox is unchecked:

The standard reports Seven Eye currently offered are as follows:

Vehicle Journey Summary Report
- A list of journeys defined by journey start, journey end associated data such as distance

Vehicle Activity Report
- A list of all GPS events transmitted by an asset's tracker, including time and place

Vehicle Timesheet Report
- A summary of an asset's activity, in timesheet form

RFID Tag Journey Summary Report
- As per the Vehicle Journey Summary Report, but for an RFID Tag instead of a vehicle

RFID Tag Timesheet Report
- A summary of an RFID Tag's activity, in timesheet form

Reports

Temperature Activity Report
- All temperature and switch events sent by trackers with temperature recorders attached

Geofence Report
- A list of all occurrences of geofence boundaries being breached

Idle Time Report
- A list of all over-idle events sent by assets' trackers

Waypoint Report
- A list of all locations visited by assets that are defined by customers' waypoints

Demurrage Report
- A list of all demurrage events that have occurred

Overspeed Report
- A list of all occasions that trackers recorded GPS derived speed above 56 mph

Report Writer

The Report Writer tab contains a simple but powerful tool that is used to create all the reports used within the Seven Eye website. It provides a variety of templates upon which reports can be designed, where users can choose which columns are included, which order they appear in and whether to include any filtering criteria that restricts a report to particular items of interest.

The template selection is made here:

Report Template

Journey Reading

The column selections and ordering for the selected columns are made here:

Properties		Selected	
Time			
Location			
Waypoint Type	>		
Speed	>>		
Direction			
Status	<		
RFID Tag			
Valid Fix	<<		
Event Type			
Event Name			

Report Writer

And filtering is performed here:

Filtering can be used to restrict reports to specific events, for example ("Only journey starts and journey ends") or to only show sensor values above a user-defined threshold ("Temperature greater than 5 degrees") or to only show location reports containing certain place or road names ("Location contains A27").

Large numbers of reports can easily be managed by grouping them within the customer's own user-defined folder structure. All reports – including the standard ones – can also be renamed to further provide a reporting structure that is meaningful to each individual customer.

Within the Report Writer, reports and folders can be managed by using the mouse to right-click them in the Reports list:
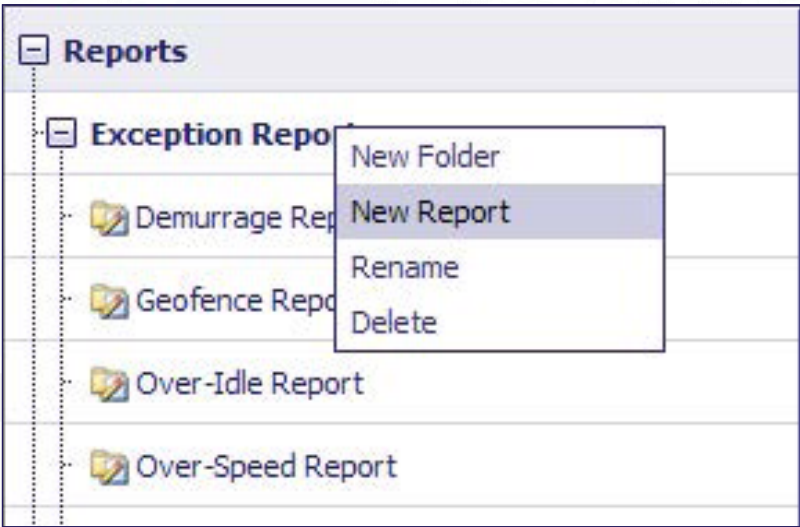
The full functionality of the Seven Eye Report Writer is described in detail in a separate SevenEye User Guide.

Alerts

The Seven Eye Alerts tab allows email and SMS alerts to be configured, that are sent to customers in the case of various alert conditions occurring.

Examples are: London Congestion Zone alerts, Temperature threshold alerts, Geofence alerts, Demurrage alerts, Power Loss/Restore alerts and Panic Alarm alerts.

In addition to allowing alerts to be defined, the Alerts tab also includes the Alerts History table, that gives details of prior alerts that have been sent to the customer.
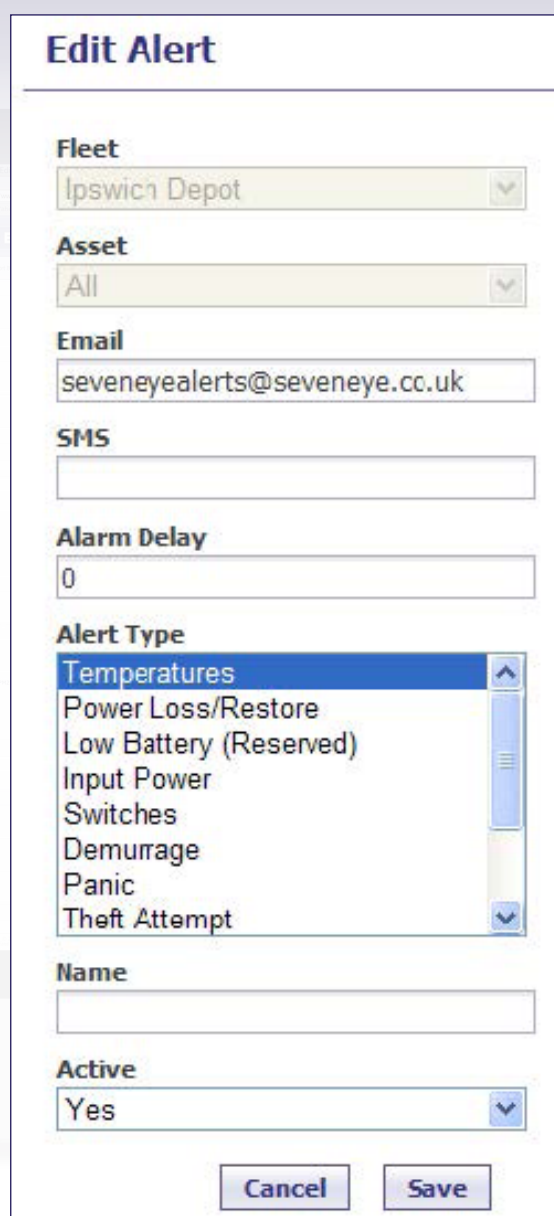
Alerts Management

Fleet ^	Asset	Email	Mobile	Alarm Delay	Alert Types
Ipswich Depot		seveneyealerts@seveneye.co.uk			Temperatures, Congestion Zone
Newark Depot		seveneyealerts@seveneye.co.uk			Temperatures, Congestion Zone
Operations		seveneyealerts@seveneye.co.uk			Congestion Zone
	BN08 YYV	seveneyealerts@seveneye.co.uk			Geofence IN/OUT

Alerts History

Time Sent ∨	Asset	Alert Type	Message
11/05/2010 16:27:23	ST 1017	Temperatures	Alarms cancelled on unit ST 1017
11/05/2010 08:45:55	BN08 YYV	Geofence IN/OUT	Geofence OUT for unit BN08 YYV at location Conner's Home at 11/05/2010 08:46
11/05/2010 07:40:07	ST 1017	Temperatures	Sensor Rear(1) alarm cancelled on unit ST 1017, value 2.10. - GA
11/05/2010 06:28:07	ST 1017	Temperatures	Sensor Rear(1) outside limits on unit ST 1017, value 0.60. - Southampton Hampshire

Alerts

Alerts can be configured for whole fleets or for individual assets and can be sent to either just email addresses, just mobile phone numbers or both.
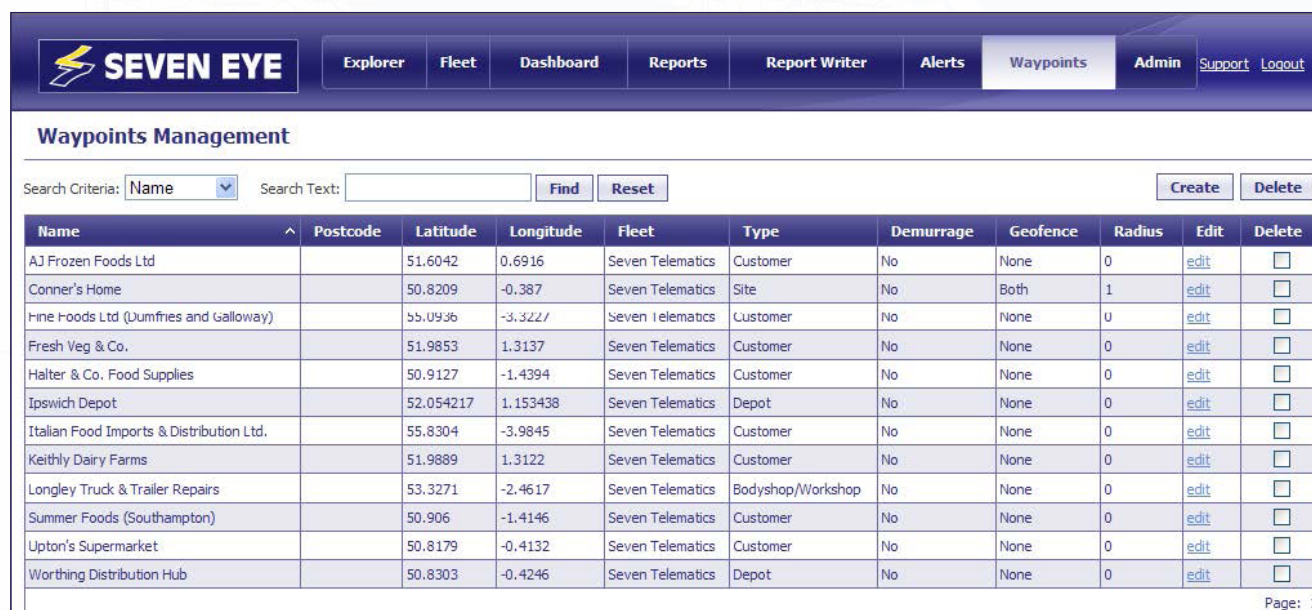
Waypoints

Waypoints are friendly names given to points on the map, and can be defined using either a postcode or latitude/longitude coordinates.

The Seven Eye Waypoints tab allows waypoints to be viewed and edited. They can also be created here, in addition to creating them directly on the map.

The Waypoints table can be filtered by entering search criteria in the search box at the top of the screen, e.g. to find only Demurrage waypoints or only Depot waypoints or waypoints whose name contains a specific search phrase.


Geofences can be set up for waypoints also, where just giving a radius and an In/Out/Both setting to a waypoint configures it as both a waypoint and a geofence. The In/Out/Both setting controls whether Geofence Reports and Geofence Alerts respond to only assets arriving at the geofence, only assets departing from the geofence, or both.

Waypoints

Waypoints should be configured with a Type setting that is relevant to each waypoint. Examples of Waypoint Types are: Customer, Depot, Site, Bodyshop/Workshop.
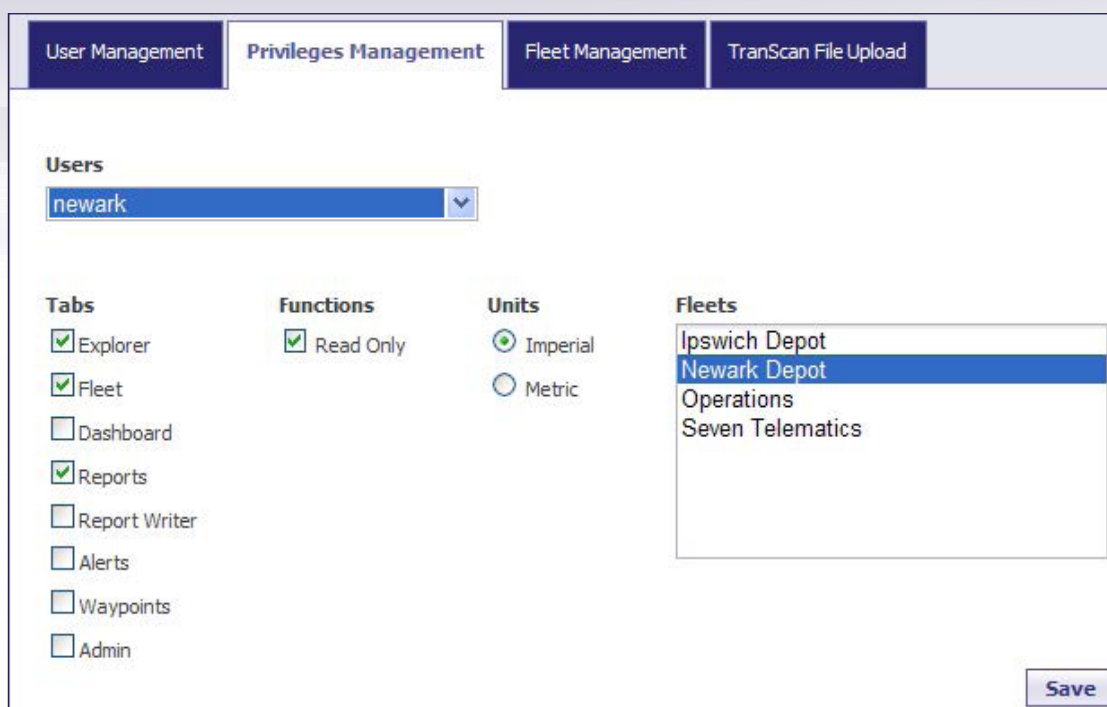
The Seven Eye Dashboard makes use of Waypoint Types to provide a high level view of where all assets are at a point in time, and the Seven Eye Report Writer can be used to create custom reports that make use of Waypoint Types (e.g. a "Depot Report" that shows which vehicles were parked up in depots over a certain time range).
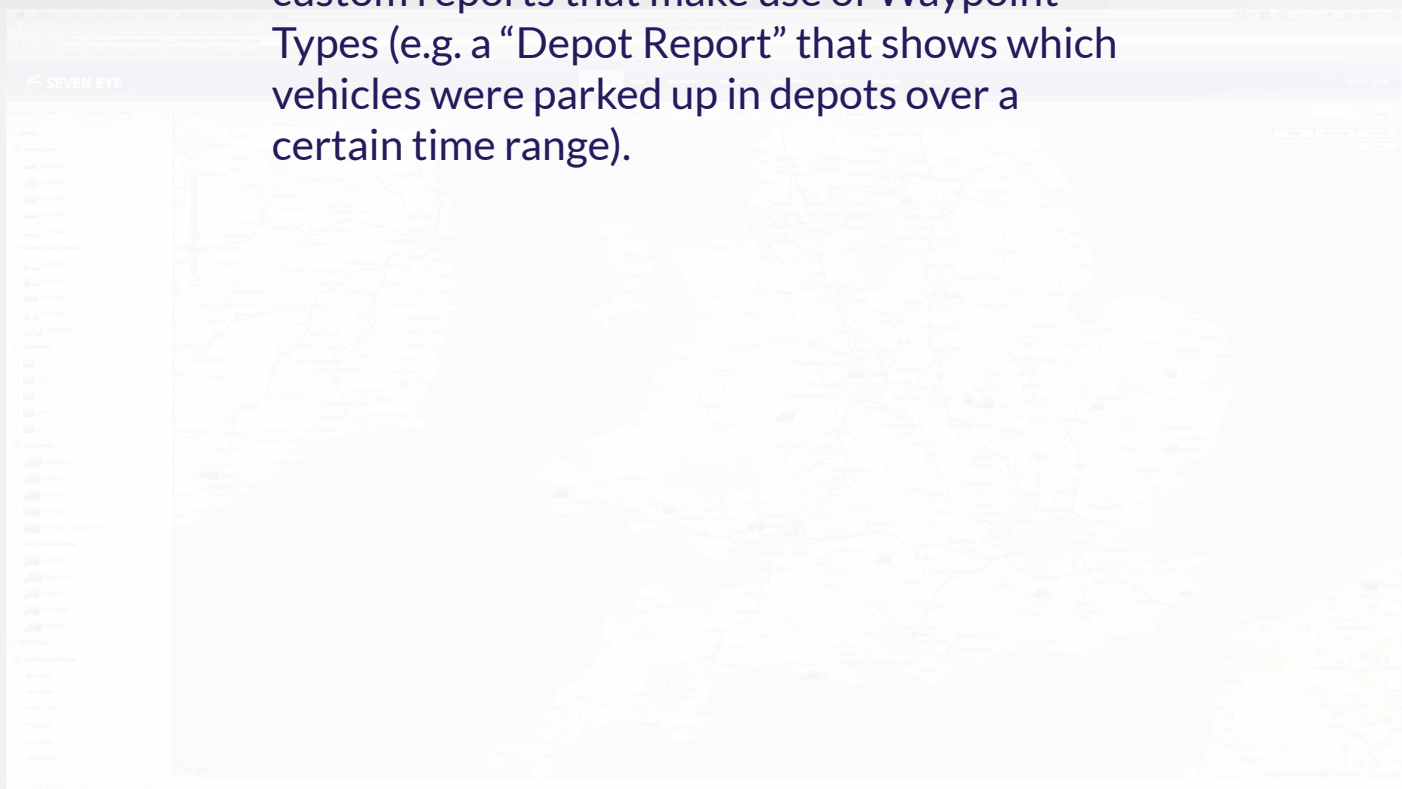
Administration

The Seven Eye Admin tab allows customers to create users and fleets, and more importantly, to specify which website functionality and which fleet(s) each user has access to.

Each customer has a super-user user login that allows them to access all their fleets and all website functionality. They may then wish to create new users that only have access to one or two fleets each, and where these users only have access to certain tabs, e.g.

The Tabs section above determines which tabs each user can see in their Seven Eye screen when they log in, and the Fleets section determines which assets each user can see. Multiple fleets can be selected by holding down the shift key, whilst left-clicking the desired fleets with the mouse.

A Read-Only option is also available that means users restricted in this way can have access to the Alerts tab and Waypoints tab (for example) and so can see alert definitions and waypoints definitions, but cannot create, delete or modify them.

The Imperial/Metric option is set per user, and affects the way all distance, fuel and fuel consumption data are shown in all parts of the Seven Eye website.

Notes

System Pre-Requisites

The Seven Eye website is supported on Microsoft Internet Explorer version 8 and Mozilla Firefox version 3.5 or 3.6. Cookies must be enabled. It is also supported on screens with a resolution of 1152 x 864 pixels or higher.

The website is implemented using only standard HTML and JavaScript web technologies and so only requires the standard HTTP Port 80 to be open on corporate firewalls. No applets are downloaded to the browser.

History Data

Whilst all location data, sensor data and CANbus data can be accessed within the Seven Eye website from as far back in time as customers' history exists for, functionality that is new for the latest Seven Eye website release has a more recent start date.

Specifically this means that alerts history data (i.e. emails and SMSs sent to customers) and 'last visited' waypoint data (i.e. the time a waypoint was last visited and which asset made that visit) is available from 01/12/2009 onwards.