

ibright® Enterprise User Guide

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From International Telematics

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Getting Help

This topic covers how to use this help guide, the formatting and text conventions used in the guide, and where you can find more help outside this guide.

Please check that you are using the latest version by looking at the version tracking table and the version number on the title page.

Types of Help:

PDF and HTML User Guides

Our guides are published in PDF format for printing, and in HTML format for online help accessible from the software. Press **F1** on your keyboard to access online help.

Technical Guides

Technical Guides are published in PDF format only. They are for limited distribution among technical personnel, and usually cover installation related technical information in detail.

Web Resources

Please see our [website](http://www.internationaltelematics.com) (<http://www.internationaltelematics.com>) for corporate information, product descriptions and media releases.

Multimedia Resources

A number of multimedia resources such as animations, videos and presentations are available on request. Please contact us (see "Contact Information" on page 8) for more information.

Conventions

Formatting	Convention
Bold	Items that can be clicked, emphasis.
KEY + KEY	A command key on the keyboard, such as CTRL, SHIFT, ALT, HOME, END or DELETE, used in combination with another key.
Step 1 > Step 2 > Step 3	This indicates a sequence that you should follow - for example a book > chapter > topic sequence, or a menu > submenu > submenu > item sequence.
Procedure	This heading indicates a procedure and series of steps (usually numbered).
[Variable]	Text enclosed in square brackets indicates a variable, to be replaced with the appropriate alternative according to the context.

Overview

This guide is intended for the user of the ibright® Enterprise software.

This Overview section contains a brief introduction to the ibright® Enterprise technology.

For more information, please [contact us](#) (see "Contact Information" on page 8).

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How Does the ibright® Solution Work?	10
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What is ibright® Enterprise?

ibright® Enterprise is a software application that allows you to manage your assets.

It is the software component of the ibright® Solution, a comprehensive asset management solution that uses telematic technology and a compact telematic computer device (the ibright® unit) installed in an asset (for example, a truck).

ibright® Enterprise includes a number of sophisticated tools that perform functions related to **locating, viewing, tracking, analyzing** and **reporting** on assets.

How Does the ibright® Solution Work?

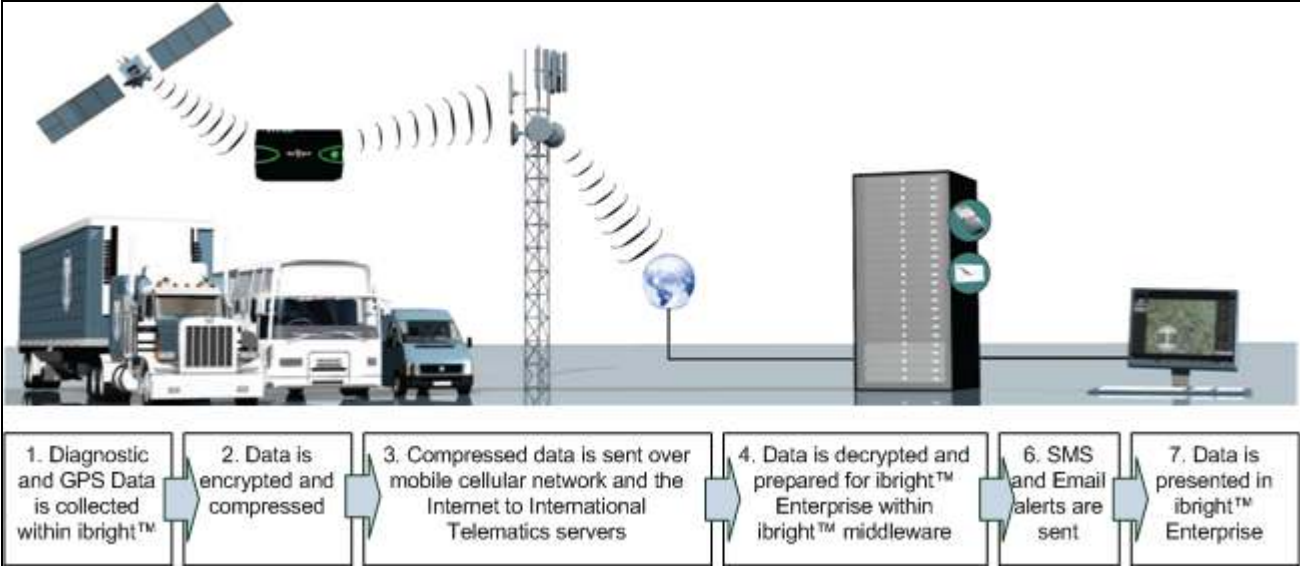
The ibright® Solution has three parts:

- ibright® telematic unit.
- Server.
- ibright® Enterprise software application.

The ibright® unit is an advanced telematic computer incorporating GPS, GSM and Bluetooth communications technology.



It collects OBD-II, J1587 and J1939 data from the asset's internal microcontrollers, combines the data with location information from GPS satellites, encrypts the data, and sends it over the Internet to the International Telematics servers.



The servers decrypt the information, send SMS and email alerts if required, and prepare the data for viewing in ibright® Enterprise within the ibright® middleware.

The information is then loaded into the ibright® Enterprise software for the customer to view.

Features

Satellite View / Map View with Asset Markers

Switch between a detailed satellite view and a map view with the F9 button on your keyboard – in both views, see color-coded, named markers for each vehicle. Click the marker or an alert for more information about the vehicle.

Asset Details Pop-up

Click a vehicle marker to bring up an Asset Details pop-up showing make, model, registration, speed, heading, location and more.

Asset List

Configure the assets you wish to view and display them in a list. Use the list to focus on a particular asset for more details, see its status, or follow the asset's progress along the route.

Breadcrumb Trail, Trip Playback

Select and playback trips for a comprehensive review of all alerts occurring along the route. You can control the playback speed.

Toggle a breadcrumb trail for a vehicle on or off, and click any alert to bring up details.

Geofences

Configure and save up to 10,000 Geofences into a single ibright® unit. Enhance the telematic information from the asset with trip and route data generated before, during and after passing through these 'virtual areas'.

Messaging

Advanced MDT (Mobile Data Terminal) based messaging to and from drivers for hours of service compliance and more efficient dispatching / scheduling.

Report List

Select from an extensive set of reports covering daily activity, fuel usage, all aspects of driving, route data including Geofences, messaging and more.

Setting Up and Launching ibright® Enterprise

This section covers setting up and launching the ibright® Enterprise application.

In This Section

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System Requirements

This topic describes the software, hardware and other requirements your system needs to run this application.

Software Requirements

- **Operating System.** One of the following operating systems is required on the target computer:
 - Microsoft Windows XP Home or Microsoft XP Professional, both with Service Pack 2 or later.
 - Microsoft Windows Vista family.
 - Microsoft Windows Server 2003 family with Service Pack 1 or later.
 - Microsoft Windows Server 2008.
- **.NET Framework.** Version 3.5 of the .NET Framework is required on the target computer. If this not already available then the ibright® Enterprise installer will install this pre-requisite.
- **Internet Browser.** Microsoft Internet Explorer 7 or better is recommended.

Hardware Requirements

- **CPU.** A Pentium class processor with a clock speed of 500 MHz is the minimum required, but 1 GHz or greater is recommended.
- **Memory.** 1 GB of RAM is required to run ibright® Enterprise.

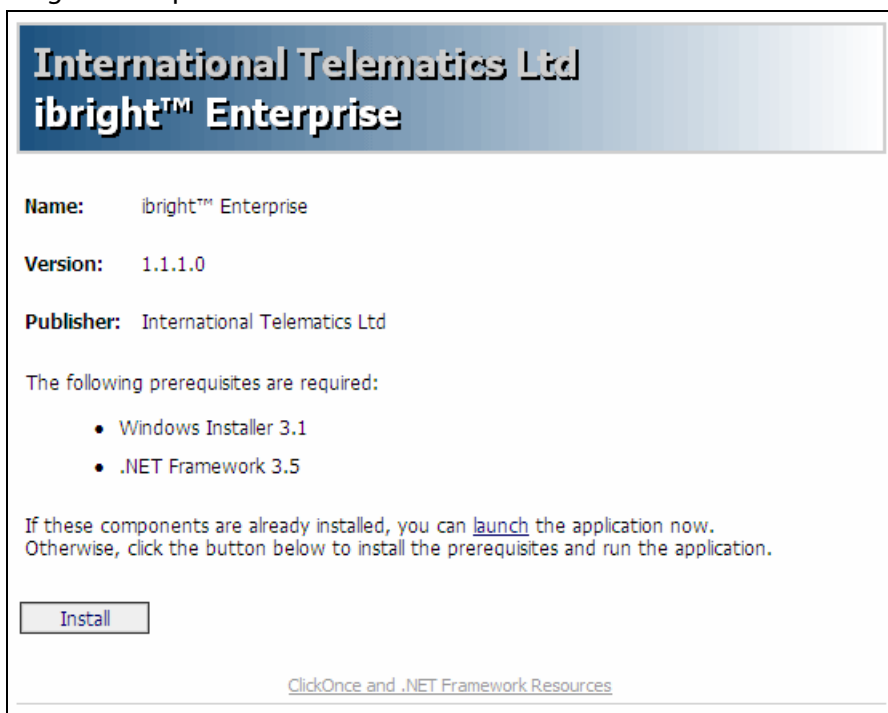
Other Requirements

- **Internet Access.** High speed internet access via DSL, Cable, or ISDN is required.

Microsoft .NET Framework and Application Setup

► To prepare your computer to run ibright® Enterprise

1. Go to the ibright® Enterprise Support site (<http://support.itelematic.com/download/us/ibrightenterprise>). This support page contains links to download and install a number of system components needed to run ibright® Enterprise.



International Telematics Ltd
ibright™ Enterprise

Name: ibright™ Enterprise

Version: 1.1.1.0

Publisher: International Telematics Ltd

The following prerequisites are required:

- Windows Installer 3.1
- .NET Framework 3.5

If these components are already installed, you can [launch](#) the application now. Otherwise, click the button below to install the prerequisites and run the application.

[Install](#)

[ClickOnce and .NET Framework Resources](#)

Note: Depending on your organization, you may need to download and install an **MSI** file instead of the one shown above. For more information, please [contact us](#) (see "Contact Information" on page 8).

2. Follow the instructions on the page.

Note: Click the **ClickOnce and .NET Framework Resources** link at the bottom of the page to download and install the Microsoft® .NET 3.5 framework.

You may need to reboot your system.

3. Click the **Install** button on the page above to begin installing the ibright® Enterprise client. Work through the steps in the installation wizard.

When the installation is concluded, you should now have an **International Telematics** program group in your **Start** menu. For more information, see [System Requirements](#) (on page 13).

Provisioning of Assets

Before you run ibright® Enterprise, an ibright® unit must be installed in every asset.

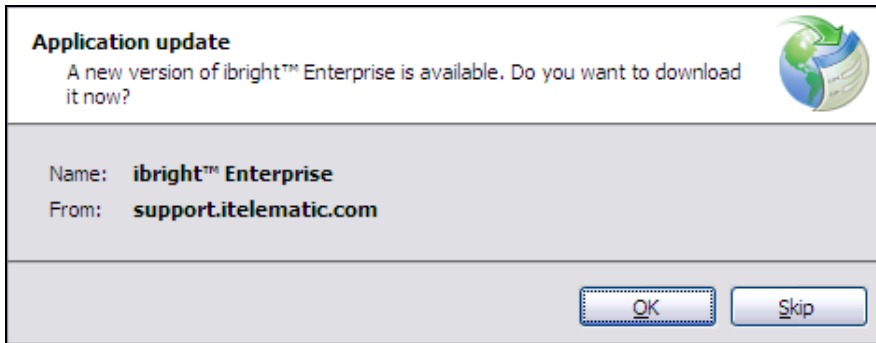
Contact us (see "Contact Information" on page 8) if you have any queries in this regard.

Launching ibright® Enterprise

This topic covers the steps to launch ibright® Enterprise and set up a desktop shortcut. For more information, see [System Requirements](#) (on page 13).

▶ **Launching ibright® Enterprise**

1. To launch ibright® Enterprise, select **Start > All Programs > International Telematics Ltd > ibright® Enterprise** or double-click a desktop shortcut (see below for instructions on setting this up).
2. If a newer version of the software is available, a dialog will prompt you to upgrade.



3. You'll be presented with a login dialog box.



Note: The software release version appears on the title bar (**v1.1.4.1**). This information is required when you contact International Telematics for support.

If you don't see the Enterprise Code field above, it's likely that you are using a computer that has already been configured to log in with your organization's Enterprise Code. If not, press F8 to bring it up and enter it. Contact your Administrator if you don't have the code, or [contact us](#) (see "Contact Information" on page 8). Next enter your username and password. Checking **Remember Password** is optional.

4. Click **Log On**, and ibright® Enterprise will start and open up the workspace below. By default, it will open in full-screen view.

▶ **Setting Up a Desktop Shortcut to ibright® Enterprise**

1. After the software has been installed as per the instructions above, click **Start > All Programs > International Telematics Ltd**, and **right-click** the ibright® Enterprise link in the program group.
2. Select **Send To > Desktop (Create Shortcut)**.
3. The shortcut will be created on your desktop, and you can launch ibright® Enterprise from there.

ibright® Enterprise Workspace

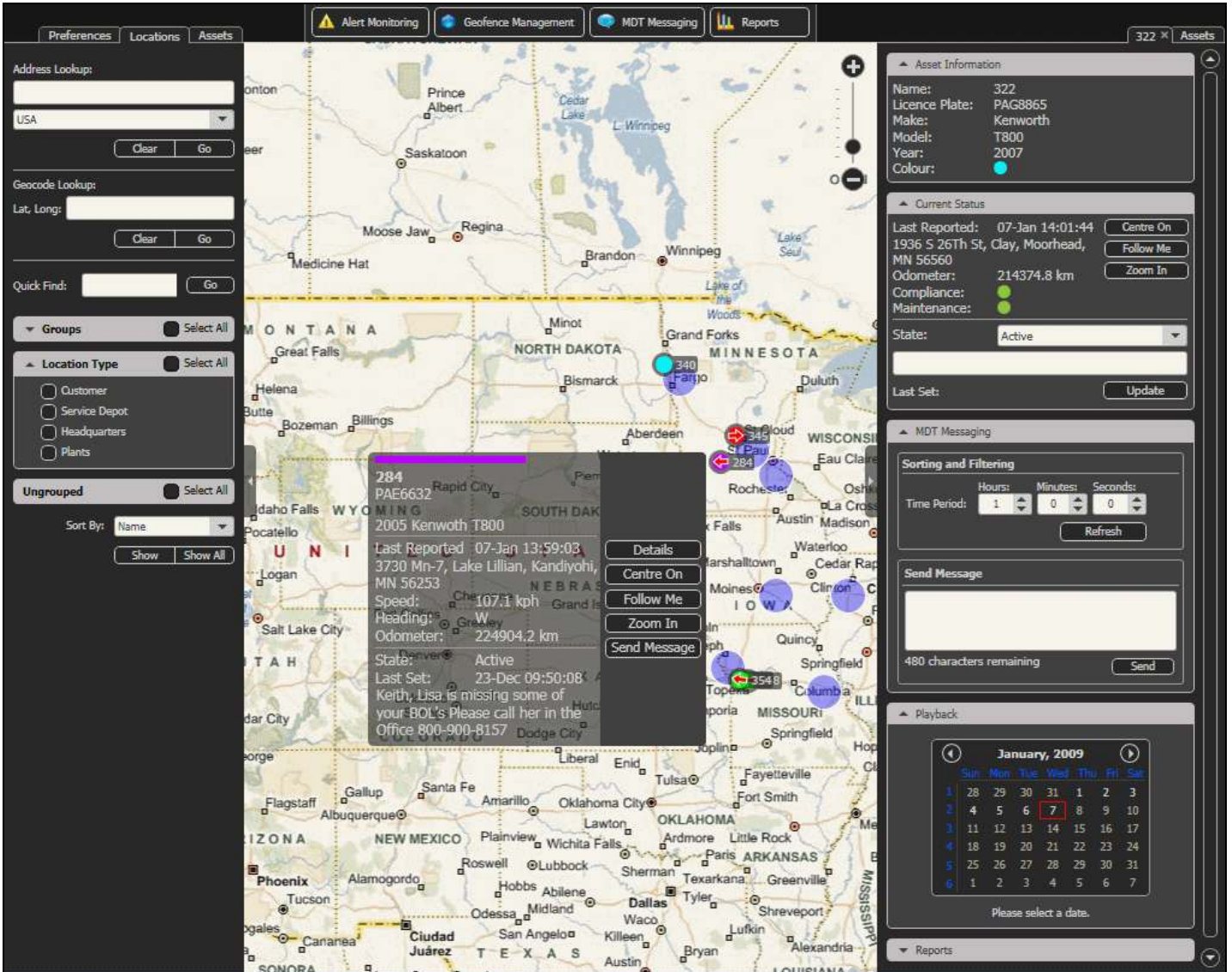
This section describes the ibright® Enterprise workspace, and main controls.

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Main Window

The ibright® Enterprise main window is logically arranged into three working areas.



The **Search Panel** on the left, allows you to configure a view. On initial launch this panel will be collapsed by default.

The main working area in the middle, the **Map Window**, shows the location of the assets you select. Above the Map window is the **Toolbar**, containing buttons to quickly access frequently used features in ibright® Enterprise.

The **Detail Panel** on the right contains a number of areas that expand on the information selected in the other panels.

The Search and Detail panels contain a number of sections that can be expanded or collapsed vertically by clicking the **Section Expander**:



The panels themselves can be expanded or collapsed laterally by clicking the **Panel Expander**:



The arrows show the direction in which the panel or section will move if clicked. Some view related actions will automatically collapse one or both panels to maximize screen real estate for essential information. You can also use function keys to expand and collapse panels (see "Function Keys" on page 28).

The topics below expand on the tabs and functions within each section.

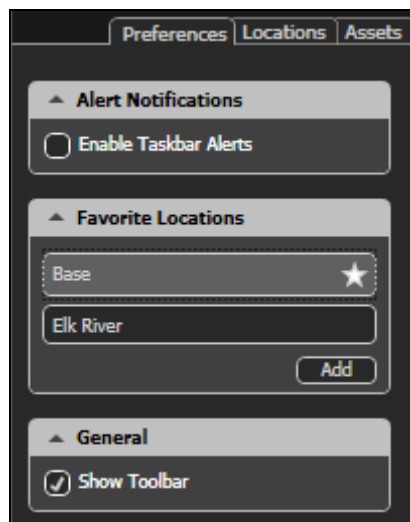
Note: The first time you launch ibright® Enterprise, the view will zoom to show **all assets**, unless configured otherwise. This setting is overridden when you enter a default favorite location on the Search panel **Favorites** tab (see "Favorite Locations" on page 38). If you remove the favorite location, the view will revert to show all assets.

Search Panel

The **Search** panel on the left of the ibright® Enterprise main window contains a number of tabs to configure a view and apply it to the Map window and the Detail panel.

Preferences Tab

This tab is intended to set your preferences for alerts, favorite locations and interface options in ibright® Enterprise.



- The Alert Notifications section works with [Alert Monitoring](#) (on page 41). Check the **Enable Taskbar Alerts** option to run a compact alert pop-up in your taskbar.
- The Favorite Locations section allows you to save map window views as a favorite locations, and recall them with a single click. You can also set one favorite location as default (it will be marked with a star), and ibright® Enterprise will zoom to this view when starting up. For more information, see [Favorite Locations](#) (on page 38).

Note: Favorite Locations are specific to the user, and will not change defaults for other users of the software.

- Check the **Show Toolbar** option in the General section to switch the [Toolbar](#) (on page 25) on and off.

Location Tab

This tab allows you to search for any location by street number, name, suburb, city, country, or Geofence / Point of Interest (POI) in the map database and display it in the Map window.

For more information, see Locations (on page 34).

Preferences Locations Assets

Address Lookup:
171st Ave, MN
USA
Clear Go

Geocode Lookup:
Lat, Long: 44.940945, -93.117185
Clear Go

Quick Find: Go

Activity Select All
 Bulk
 V - Bin
 Crane
 Dairy
 General

Ownership Select All
 SOCKBURN
 WASHDYKE
 HILLS
 DEFAULT

Ungrouped Select All

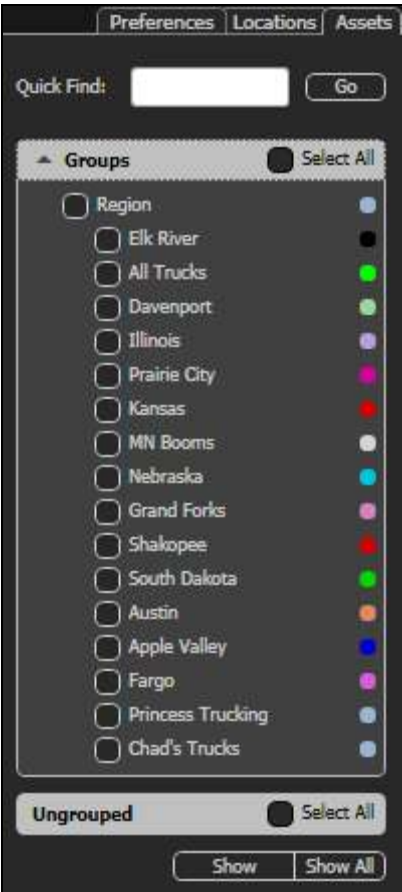
Sort By: Name
Show Show All

Tip: To quickly find a Geofence, enter the name into the **Quick Find** field and click **Go**. Your company administrator would have already set these up.

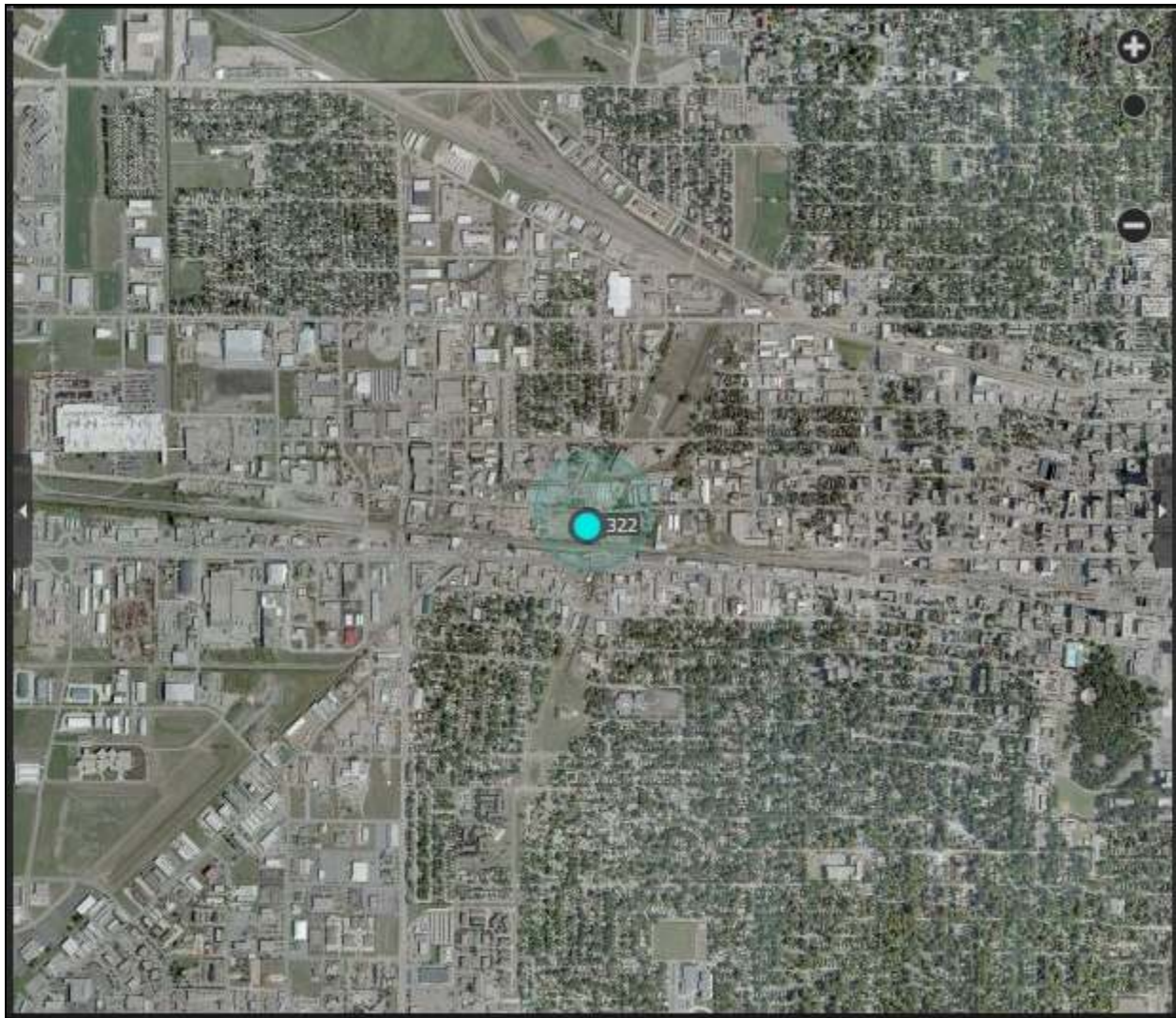
Asset Tab

This tab shows grouping information related to your company's assets. The sections on this tab are specifically configured for each customer organization, and will differ from the examples below.

For more information, see Assets (on page 30).



This is the satellite image of the same map graphic.



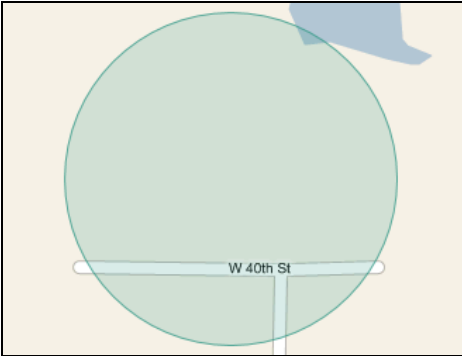
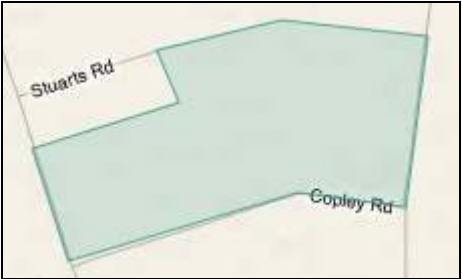
Location Icons

When you search for a location, the result of the search are loaded into a list in the Detail panel. Every item in the list will have a corresponding blue location marker in the Map window.



These markers are cleared when you close ibright® Enterprise, or when you click **Clear** in the Address Lookup section (see "Address / Geocode Lookup" on page 36).

Geofences and Points of Interest (POI) (see "Geofences" on page 46) are indicated with light blue semi-transparent polygons or circles.



You can click a POI to load its details into the Detail panel.

Note: To select a nested Geofence (Geofence within another Geofence) hold down CTRL on your keyboard when you click to select the Geofence.

Map Window Asset Icons and Pop-ups

A number of icons in the ibright® Enterprise Map window show asset related information.

- **Asset Icon.** Assets are indicated in the Map window with a colored circle and an asset name label. If the asset is stationary, it looks like this:



The color of the circle relates to the color of the asset. It can be edited in the **Asset Information** section of the asset details (on page 30).

If the asset is on the move, its direction and relative speed will be indicated with an arrow:

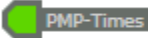


Other types of assets have different icon shapes.

Trailers (see "Trailer Management" on page 56), Refrigerated units (on page 57):



Compactors (see "Compactor Assets" on page 58):



- **Asset Speed.** The color of the arrow on a mobile asset indicates its relative speed.
Green: 0-31 mph.
Amber / Orange: 31-62 mph.
Red: Over 62 mph.

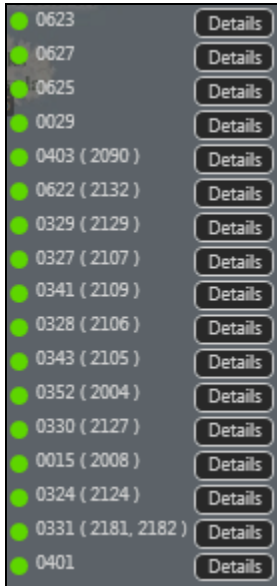
Note: The color of the arrow cannot be changed.

- **Cluster.** Multiple assets grouped together in a single location are marked by a **Cluster**, a semi-transparent violet circle.



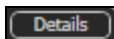
Clicking the cluster will expand its details into the Asset List Pop-up.

- **Asset List Pop-up.** Clicking the asset cluster will generate a list, from which individual assets can be selected to view their details.

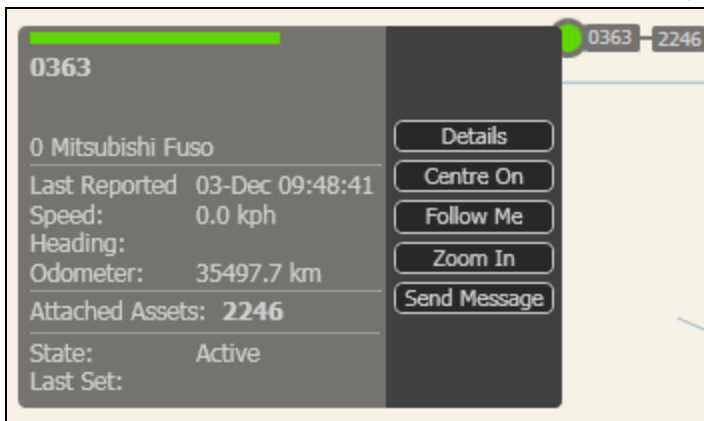


Asset names in brackets indicate linked assets (for example, trailers).

The information on each Asset Details pop-up mirrors the information that you will see in the Detail panel. You can view this information by clicking the **Details** button that's available on the Asset Details pop-up as well as on the asset bar in the Detail panel:

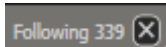


- **Asset Details Pop-up.** Clicking any individual asset in the Map window that is not part of a cluster will generate a gray Asset Details pop-up. This shows a summary of the information available for the selected asset, and a number of useful controls related to locating and viewing the asset.



For more information on the **Send Message** button, see [Communications and Messaging](#) (on page 52).

- **Following Tab.** If you click **Follow Me** on any Asset Details pop-up, a tab will appear in the upper left hand corner of the Map window as an indication.



You can click the **X** on the tab to stop following the asset.

For more information on asset icons and functions, see [Asset Details](#) (on page 30).

Zoom Functions

You can zoom into the map in a number of different ways.

Tip: Position the mouse arrow over the item you are zooming into, to ensure that the map view remains focused on it, or the item may slip off the map view as you zoom.

- Use the Zoom Slider on the Map window, at the top right hand corner.



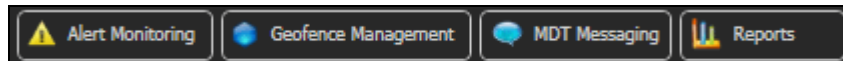
Click the + or - buttons to zoom in or out respectively, or drag the slider position marker up or down.

- If you are using a mouse with a central scroll wheel, scrolling **forward** will zoom in, and scrolling **backwards** will zoom out.
- You can use the **Page Up** button on your keyboard to zoom in, and the **Page Down** button to zoom out.
- You can right-click an asset bar in the Vehicles tab of the Detail panel and select **Zoom In** to center and zoom in on the asset.
- On any asset details tab, click **Zoom In**.

Note: After zooming, please allow a few seconds for the Map window to update itself.

Toolbar

The Toolbar gives you single-click access to frequently used functions.




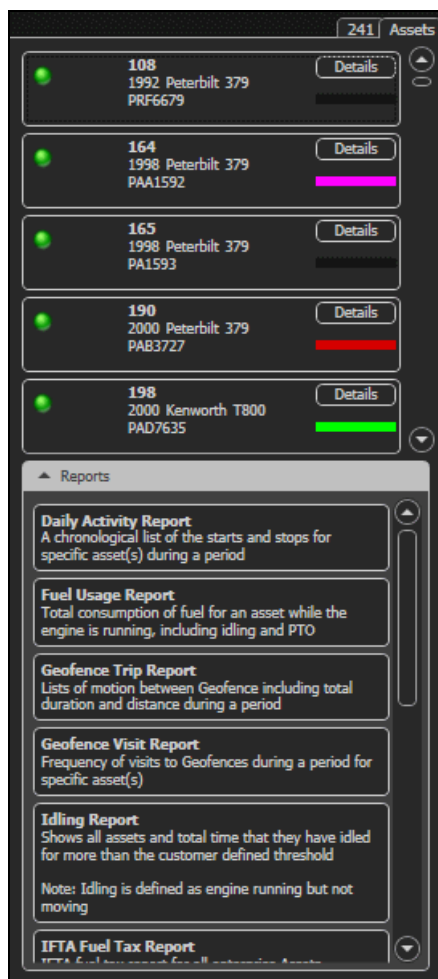
You can switch the Toolbar on and off on the [Preferences tab](#) (on page 18). Use the links below to go to the relevant section of the guide.

- **Alert Monitoring** (on page 41). This brings up a window where you can configure and manage alerts for assets.
- **Geofence Management** (on page 47). This interface is to enter and configure Geofences (on page 46).
- **MDT Messaging** (see "Communications and Messaging" on page 52). This window is to manage all messaging requirements to and from assets.
- **Reports** (on page 59). This launches the Reports portal, from which you can select, configure and run a number of reports on your asset fleet.

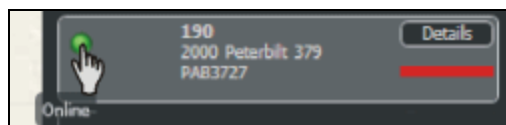
Detail Panel


The Detail panel shows detailed information on the items you select in the other areas of the workspace, and provides access to further levels of detail.

Tip: To quickly expand and collapse the different sections of the panel, use the Section Expander . For more information, see [Main Window](#) (on page 17).



You will see the **Assets** tab of the Detail panel first. At the very top of the panel is the list of assets generated by the configuration and search options you have used in the Search panel. Each asset has its own **Asset Bar**:

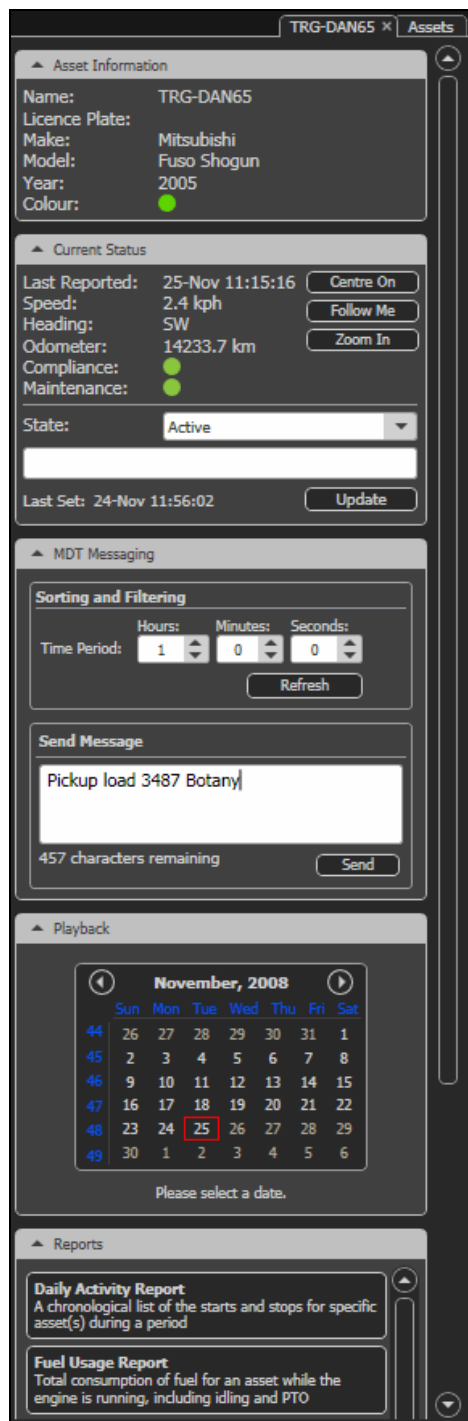


The **Asset Status Icon** (green dot) shows the status of the asset. In the example above, the asset is **online**, and hovering your mouse over the status icon will pop up a status message - for example, . If the icon is gray, the asset is offline, and certain functions will be unavailable (see "Asset Details" on page 30).

Note: For information on other types of assets, see [Trailer Management](#) (on page 56) and [Compactor Assets](#) (on page 58).

The Reports section is shown collapsed by default, and can be expanded by clicking the section expander (see "ibright® Enterprise Workspace" on page 16).

Tabs are added to this panel depending on the asset details you call up. Clicking any asset bar at the top of the **Vehicles** tab inserts an **Asset Details Tab** to its left, containing the name of the asset on the tab header. To close the Asset Details tab, click the **X** on the header.



Note: If you have configured the Detail panel to show location details like addresses or Geofences, the Detail panel tabs will show different information. The Reports available will also change. For more information, see [Locations](#) (on page 34).

For more information on working with asset details and reports, see the following sections.

- [Basic Functions](#) (on page 30) to search for assets, view and work with asset details, and group assets.
- [Frequently Used Functions](#) (on page 41) for activity, compliance, location and identification, playback, Geofence and Driver Style related functions.
- [Advanced Functions](#) (on page 52) for messaging and upgrade related functions.

- Reports (on page 59).

Function Keys

You can use the function keys on your keyboard for a number of view related actions.

- **F1.** Shows the Online Help documentation.
- **F2.** Toggles the Detail panel (on page 25) on and off.
- **F3.** Toggles the Search panel (on page 18) on and off.
- **F4.** Toggles both the Search and Detail panels on and off.
- **F6.** Toggles the Toolbar (on page 25) on and off.
- **F8.** Brings up the Enterprise Code field on the ibright® Enterprise login dialog.
- **F9.** Toggles between Satellite mode and the map graphic (see "Map Window" on page 21).
- **F11.** Toggles Full Screen mode on and off.

Working with ibright® Enterprise

This section of the guide covers working within ibright® Enterprise, focusing on different levels of functions related to assets and locations.

It is structured according to function, beginning with basic functions and progressing through frequently required functions to more complex functions.

If you'd like to go directly to a section, use the Index at the back of this guide for an alphabetically arranged list of functions.

In This Section

Basic Functions	30
Frequently Used Functions	41
Advanced Functions	52

Basic Functions

The basic functions of ibright® Enterprise cover selecting, grouping and viewing assets and locations.

Assets

This section covers basic functions related to assets.

Finding Assets

One of the first things you would want to do in ibright® Enterprise is to search for an asset or asset group.

When you start ibright® Enterprise, and if you have not defined a default Favorite Location (see "Favorite Locations" on page 38) on the Preferences tab, the software will show all your assets in the Detail panel and Map window.

If the asset you require is visible, simply click on it to begin working with it. Its details will be loaded into the Detail panel (on page 25), and the Map window (on page 21) will center the selected asset at the current zoom level.

If it is not visible, you can search for it on the **Assets** tab of the Search panel.

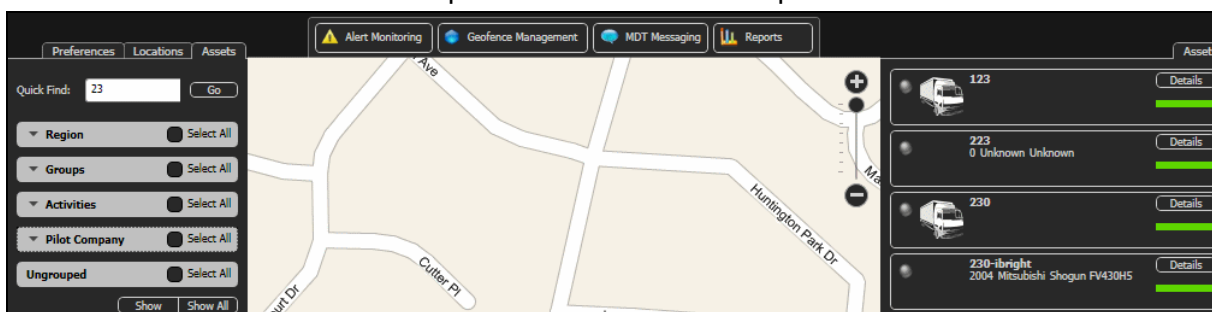
▶ **To use the Quick Find field to find an asset:**

1. Select the **Assets** tab on the Search panel.
2. Type all or part of an asset name into the **Quick Find** field.
3. Click **Go**.

The asset icon will be displayed in the Map window, and the Detail panel will show the asset details, or (if you entered only part of an asset name) a list of alternative name matches for the asset. This function will search for text strings at the beginning or the end of the asset name, and even look for phonetic matches (words that sound similar).

For example, if you're looking for an asset named **Craig** and you entered **Greg**, both will appear in the search results. Another example: if you were looking for **223** and you could only remember that there was a 23 in the name, Quick Find 23 and the software will show you all assets with names containing 23 in the Detail panel.

Select the correct asset in the Detail panel to load it into the Map window.



Note: If the asset name you enter matches a single asset exactly, the Map window will centre it, zoom in on it and display its details.

Asset Details

When you click the large gray rectangular Asset bar in the Detail panel (on page 25), the asset will be centered in the Map window at the current zoom level.

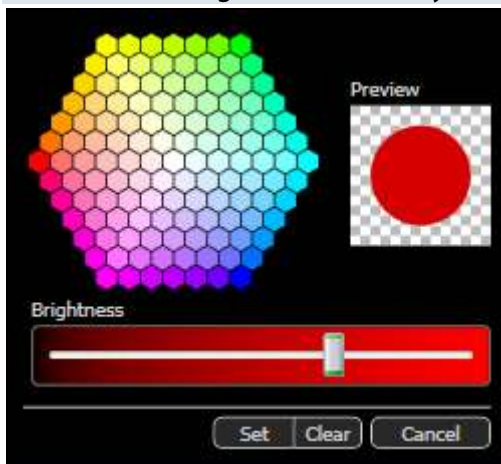
Note: For information on other types of assets, see Trailer Management (on page 56) and Compactor Assets (on page 58).

Asset Information Section

The topmost Asset Information section shows the asset details that have been entered into the system at the time of provisioning.

- **Name.** This is the name given to the asset at the time of provisioning, and can be anything you want. In the example above it is **190**, but can also be configured to show an asset number or name like **John Brown - Kenworth 45690**.
- **Licence Plate.** Licence Plate number.
- **Make.** Manufacturer of asset.
- **Model.** Model name or number for asset.
- **Year.** Year of manufacture.
- **Colour.** Color of asset. Click this icon to bring up a color selector and select a different color if required.

Note: To change an asset color, you must have Administrator permissions.



Click on a color to select it, and then click **Set** to apply it, **Clear** to remove a color and revert to the asset group's default color (see Grouping and Asset Lists above), or **Cancel** to cancel the dialog and go back to the previous screen.

Current Status Section

The Current Status section shows the current status of the asset, and some controls to focus on the asset in the Map window.

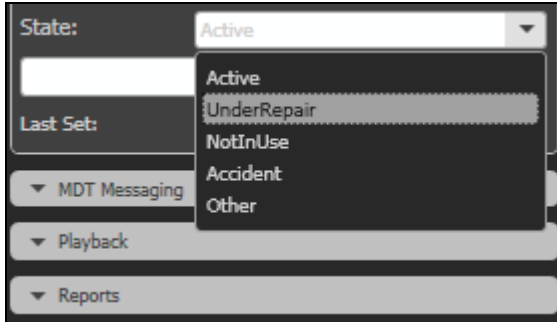
- **Speed.** This indicates the current speed of the asset.
- **Heading.** The compass heading for the asset's direction of travel.
- **Odometer.** Total distance travelled on odometer.
- **Fuel Level.**
- **Compliance.**
- **Maintenance.**
- **Center.** Click this button to center the selected asset in the middle of the map window at the current zoom level.
- **Follow Me.** Click this button to move the map in the Map window so that the selected asset is always centered, at the current zoom level.

Note: This button is also available on the Asset Details pop-up that you see when you click an asset in the Map window (see below).

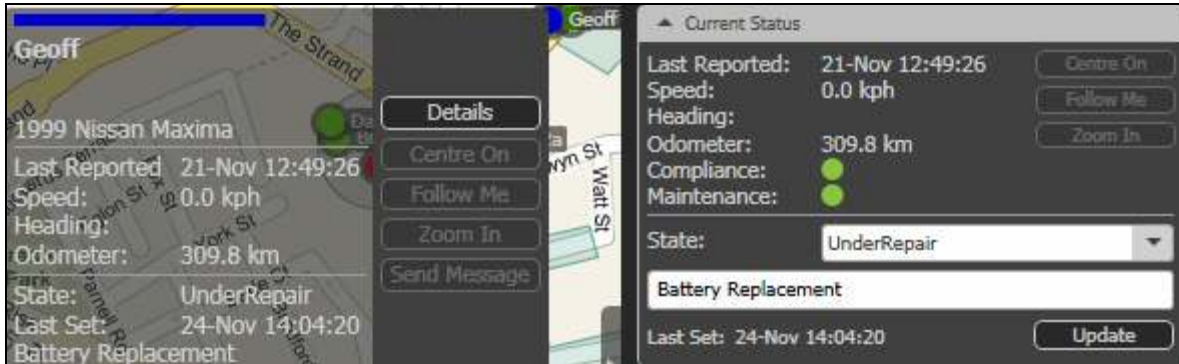
- **Zoom In.** Zoom in to maximum on the selected asset. For more information on zooming, see [Zoom Functions](#) (on page 24).

Note: For more information on the asset information you can get from the Map window, see [Map Window Asset Icons and Pop-ups](#) (on page 23).

- **State.** This panel allows you to manually select and set the state of an asset, subject to permissions. The purpose of this functionality is to better describe the state of an asset, as accurate status information is often required for performance audits. For example, an asset may have been offline without explanation for a number of hours, and from the last status message you can tell why - it may have been under repair. To set the state of the asset, select one from the drop-down list and/or add a free-form text comment below it and click **Update**.



Setting the state of the asset also updates this information on the relevant Asset Details Pop-up (see "[Map Window Asset Icons and Pop-ups](#)" on page 23).

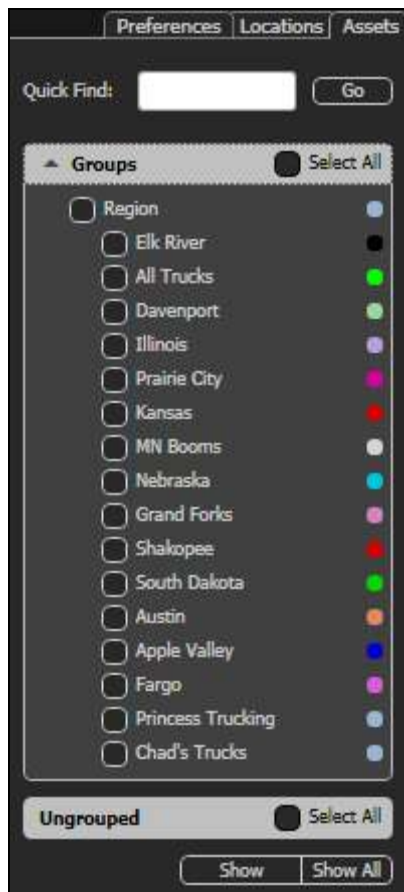


Groups (Assets Tab)

The **Groups** section on the Assets tab of the Search panel shows you the asset groups configured for your assets. The purpose of grouping is to give you single-click access to a group of assets, and show them to you in the Map window. The assets are color-coded to the group unless specified otherwise (see below).

If you have assets that do not belong to a group, they will appear in the **Ungrouped** section.

Groups are currently configured at the provisioning stage by your company's Administrator.



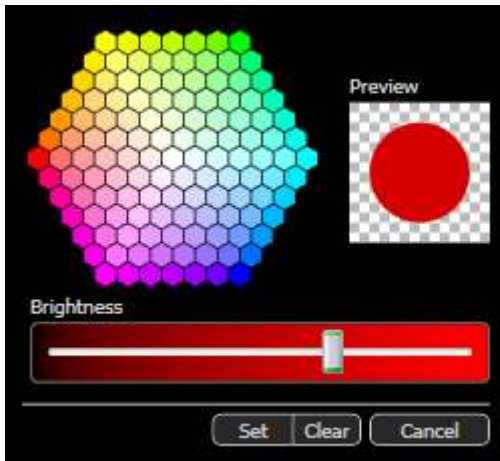
► **To load a pre-configured asset group:**

1. Select as many group options as you require within the **Groups** section, and then do one of the following.
 - Click **Show** to apply the selections to the Map window and Detail panel, and temporarily collapse the Search panel, OR:
 - Click **Show All** to zoom the view to show all assets.
2. To clear the Groups section selections and load a different view, click **Clear** and define an alternate view.

► Changing an asset group color

Note: To change a group color, you must have Administrator permissions.

1. Click the group icon (colored dot) to bring up a color selector and select a different color if required.



2. Click on a color to select it and preview it in the preview window.
3. Click **Set** to apply the new color, **Clear** to remove the existing color and revert to the group default color, or **Cancel** to cancel the dialog and go back to the previous screen.
4. You'll see the results of your change on the icon.

Locations

This section covers basic functions related to locations.

Finding a Location

The Location tab on the Search panel is where you will go to perform all location related actions.

The screenshot shows a mobile application interface with three tabs at the top: 'Preferences', 'Locations', and 'Assets'. The 'Locations' tab is active. Below the tabs, there are three search sections: 'Address Lookup' with a text input containing '171st Ave, MN' and a dropdown menu set to 'USA'; 'Geocode Lookup' with a text input containing '44.940945, -93.117185'; and 'Quick Find' with an empty text input. Below these are three expandable sections: 'Activity' with a 'Select All' button and five checkboxes (Bulk, V - Bin, Crane, Dairy, General); 'Ownership' with a 'Select All' button and four checkboxes (SOCKBURN, WASHDYKE, HILLS, DEFAULT); and 'Ungrouped' with a 'Select All' button. At the bottom, there is a 'Sort By' dropdown menu set to 'Name' and two buttons: 'Show' and 'Show All'.

The **Address Lookup** section allows you to enter an address to search for.

The **Geocode Lookup** section will accept decimal Geocode values, as shown in the image above, and convert them to standard DMS values on running the search.

The **Quick Find** section is to search for a Geofence by name.

If you enter only part of a location name, both the Address Lookup and the Quick Find sections use fuzzy logic to generate a list of probable locations. See our examples below.

Below the Quick Find section are enterprise-specific Location (Geofence) Groups (see "Groups (Locations Tab)" on page 39).

► **To use Address or Geocode Lookup to find a location:**

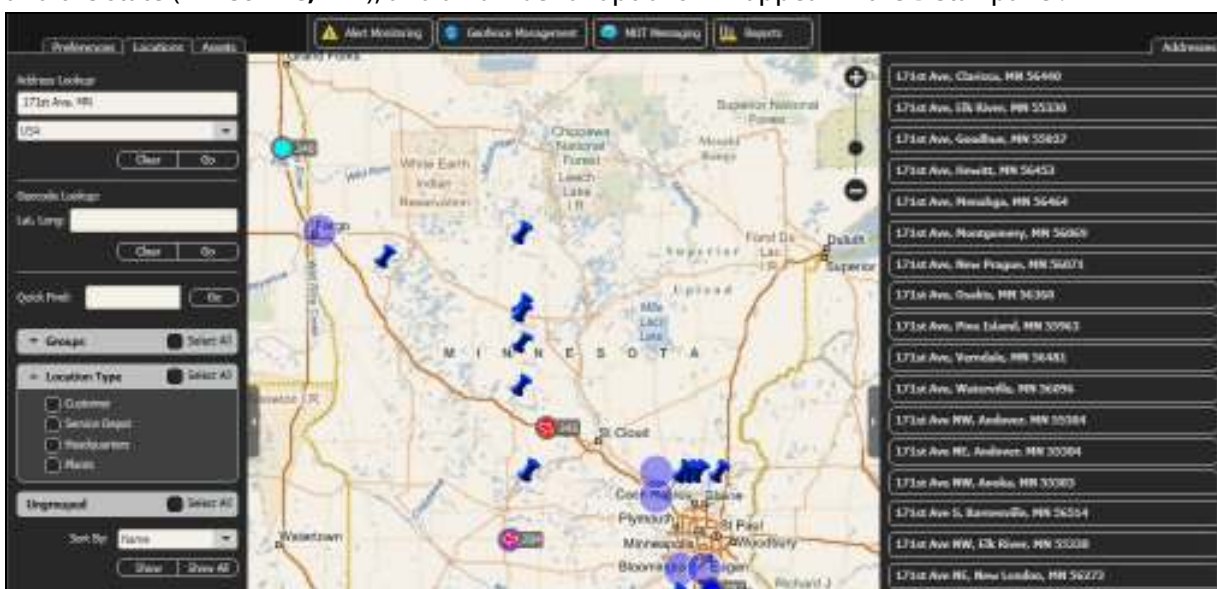
1. Type the street number, name, suburb, and city of the location you want, or part thereof, into the **Address Lookup** field in the format shown above, OR enter a Geocode (decimal / DMS) location reference into the **Geocode Lookup** field.

2. Click **Go**.

The blue location marker will be displayed in the Map window for the address or Geocode reference, and the map will center the location at the current zoom level.

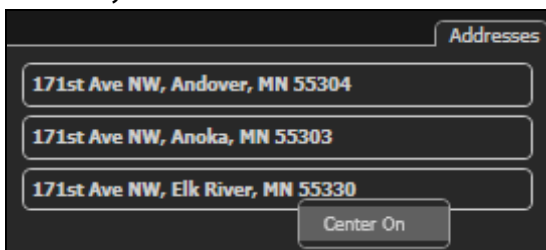
The Detail panel will show the Geocode position, address details, or (if you entered only part of an address) a list of alternative name matches for the asset with a corresponding blue location marker in the Map window for each address. This function will search for text strings at the beginning or the end of the address, and even look for phonetic matches (words that sound similar).

For example, if you're looking for an address like **171st Ave Nw, Minneapolis**, enter part of the street name and the state (**171st Ave, MN**), and a number of options will appear in the Detail panel.

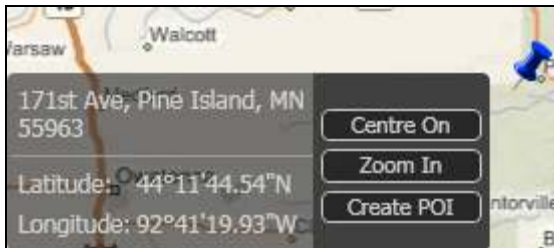


Location markers are cleared when you close ibright® Enterprise, or when you click **Clear** in the Address Lookup section.

3. Select the correct location in the Detail panel to load it into the Map window. To center an address location in the Map window, click the relevant address bar on the Addresses tab, or right-click the address bar for the location you want and click **Center On**.



- Once you've found the location you require, you can click the location marker for further options.



The Center On button will move the location marker to the center of the screen, and the Zoom In button will zoom in to maximum. The **Create POI** button launches the Geofence Management tab and sets up a Point of Interest (POI) (see "Geofence Management" on page 47).

Quick Find

► To use Quick Find to find a Geofence:

- Enter the name of the Geofence (or part thereof) into the **Quick Find** field.
- Click **Go**.

The Geofence will be displayed in the Map window, and if you entered a complete name, the map will center the location at the current zoom level.

If you entered only part of a Geofence name, this function will search for text strings at the beginning or the end of the Geofence name, and even look for phonetic matches (words that sound similar).

For example, if you're looking for a Geofence named **Burwood** and you entered **Sherwood**, both will appear in the search results. Another example: if you were looking for **Elk River Plant** and you could only remember that there was a **Elk** in the name, Quick Find **Elk** and the software will show you all Geofences with names containing **Elk** in the Detail panel.

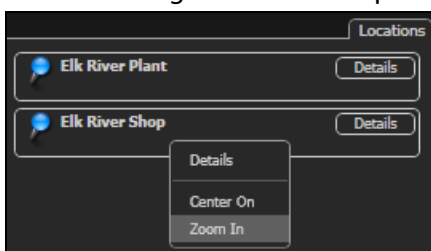


The results of your search will be loaded into the Locations tab in the Detail panel.

3. Select the correct Geofence bar in the Detail panel to load it into the Map window. Clicking the **Details** button on any Geofence bar will bring up a tab for the Geofence in the same way as for an asset, and the Reports section will show Geofence specific reports.



You can use the controls in the POI Information section to center and zoom in on the Geofence. For more information on editing a Geofence or POI, see [Geofence Management](#) (on page 47). The controls are also available as right-click menu options on the respective Geofence bars:



Note: Geofences can also be associated with groups (see above) so that you can use the Location tab to quickly view all locations and Geofences for a group. To associate a Geofence with a group, see [Geofence Management](#) (on page 47).

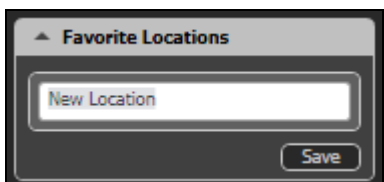
Favorite Locations

The Favorite Locations section on the [Preferences](#) tab (on page 18) of the Search panel allows you to configure and save a number of map views as Favorite Locations. This makes them available on the Preferences tab for easy, single-click access.

Note: Favorite Locations are specific to the user, and will not change defaults for other users of the software.

▶ To save and recall a Favorite Location:

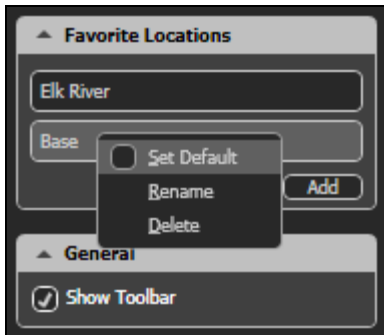
1. Use any of the other tabs (see below) to configure a view in the Map window (on page 21).
2. In the Favorite Locations section, click **Add**.



3. In the **New Location** field, type the name you wish to give the favorite. This can be anything you want.
4. Click **Save**.
5. You can now go directly to that view with a single click of the favorite location name. The zoom level will also be remembered.

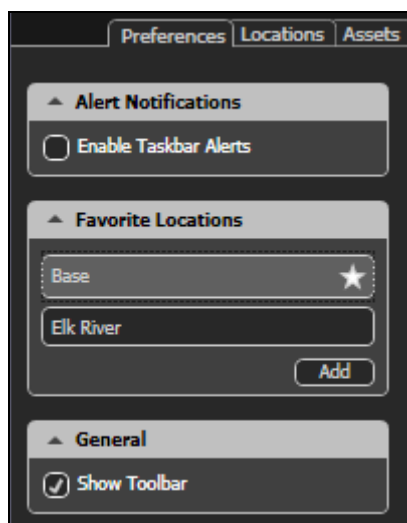
► **To edit, rename or delete a Favorite Location:**

1. Go to the Favorite Locations section on the Preferences tab above, and **right-click** the favorite you wish to work with.



The Map window will zoom to confirm the view that you will be editing.

2. Select the function you want to perform.
 - **Set Default** will make this view the default view when ibright® Enterprise opens up. If you set the selected favorite as default, it will be indicated by a star.



- **Rename** will edit the name of the favorite.
- **Delete** will delete the favorite.

Groups (Locations Tab)

The **Groups** section on the Locations tab of the Search panel shows you the Geofence groups configured for your assets. The purpose of grouping is to give you single-click access to a group of Geofences, and show them to you in the Map window.

If your enterprise has Geofences that do not belong to a group, they will appear in the **Ungrouped** section.

Groups are currently configured at the provisioning stage by your company's Administrator.

▶ **To view groups in different ways:**

1. Select as many group options as you require within the **Groups** section.
2. Select the sort method. The **Sort By** field allows you to sort the groups by **Name** or **Type**.
3. Apply the group view:
 - Click **Show** to apply the selections to the Map window and Detail panel, and temporarily collapse the Search panel, or:
4. Click **Show All** to zoom the view to show all group locations.

Frequently Used Functions

This section of the guide covers the most frequently used functions in ibright® Enterprise.

Location and Identification

With ibright® Enterprise, you can keep track of where your assets are at all times.

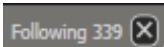
You can find assets that are closest to an address for job allocation and speedier deliveries, ensure that the operators use preferred suppliers, and find missing assets.

Asset location in ibright® Enterprise is driven by **smart beaconing** technology. Position data is reported only when an asset changes direction, not at specified time intervals, ensuring that the data is meaningful and accurate.

▶ **To follow an asset on the map**

On occasion you may wish to keep an asset's progress on your screen and follow it for a while. This is possible from the Detail panel as well as from the Map window.

1. Find the asset (see "Finding Assets" on page 30).
2. EITHER:
 - Right-click the Asset bar and choose **Follow Me**, OR
 - Load the asset's details into an Asset Details tab and select **Follow Me**, OR
 - Click the asset in the Map window, and select **Follow Me** from the Asset Details pop-up.
3. The map will center the asset at the current zoom level, and move the map to keep it in the center of the window. A small tab at the upper left hand of the Map window will indicate that you are following the asset.

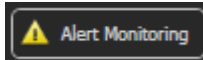


4. To stop following an asset, click the **X** on the tab.

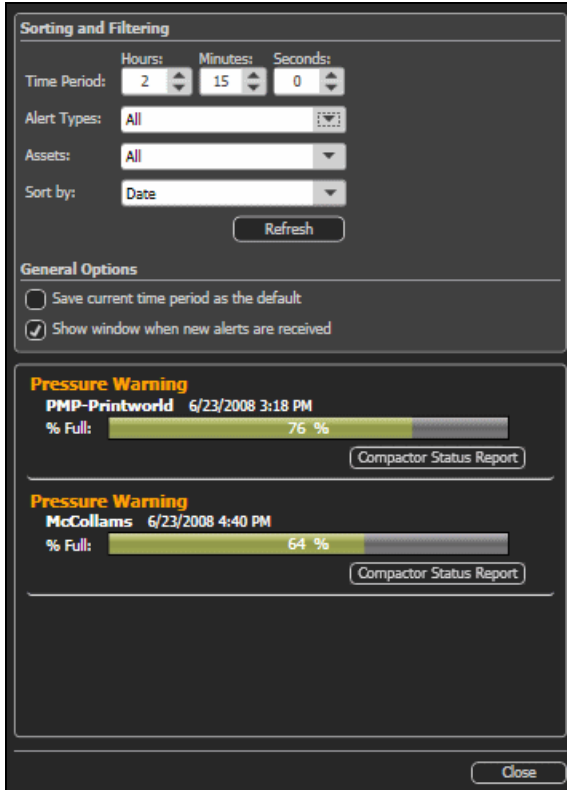
Alert Monitoring

You can monitor alerts for a given asset (or a number of selected assets) in ibright® Enterprise. You can select the type of alerts you receive, as well as the assets to monitor and the timeframe for the monitoring.

Alert monitoring is possible in two ways.



- You can click the Alert Monitoring button on the Toolbar to launch a window with an extensive set of controls:



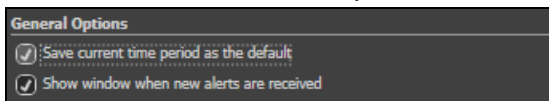
- You can enable taskbar alerts (see "Taskbar Alert Pop-up" on page 43).

With both methods, new alerts will be briefly highlighted.

► Configure Alert Monitoring

1. Launch the Alert Monitoring window above.
2. Select the time period for the alerts. The default is to show alerts for the last 15 minutes, but you can change this value and set your preference as the default.

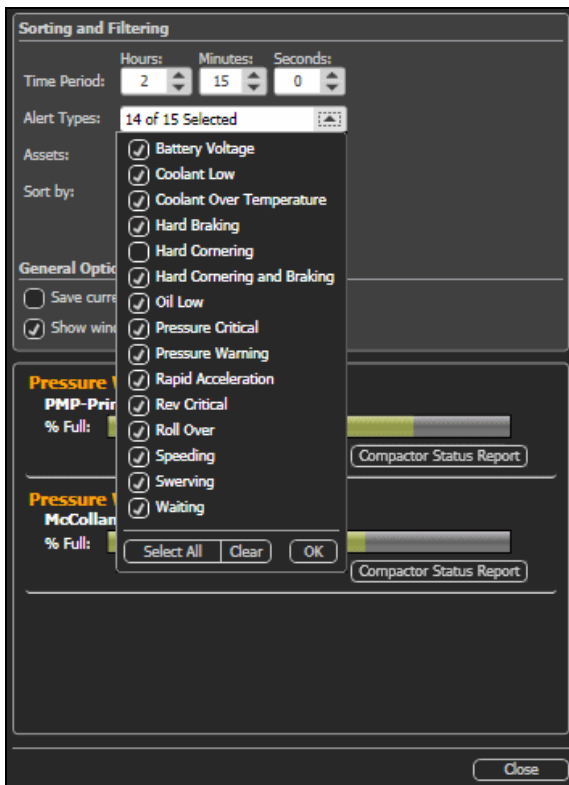
In the example above, it has been changed to 2 hours 15 minutes. Selecting **Save current time period as the default** in the General Options below it will set the time period you have chosen as default.



Remember to click **Refresh** if you want the system to show earlier alerts after changing the time period.

The **Show window when new alerts are received** option, if selected, will bring up the Alert Monitoring window when a new alert is received if ibright® Enterprise is running.

3. Select the alert types from the drop-down list. The default is to show **All**, but if you choose the **Selected** option the drop-down list will expand to show the alert types available.



Note: The **Pressure Critical** and **Pressure Warning** options apply to **Compactor assets** (on page 58).

Check or uncheck alert types as required. While you do so, the Alert Types field will show you the number of alerts you have selected as in the example above.

4. Select the assets you wish to view alerts for. The default is to show **All**, but if you choose the **Selected** option the drop-down list will expand to show a list of assets. Check or uncheck assets as required. While you do so, the Assets field will show you the number of assets you have selected.
5. Select the sorting method in the Sort By field. Three options are available: **Asset**, **Date** and **Type**. The default is Date.
6. Click **OK**, and alert monitoring will commence.

Taskbar Alert Pop-up

It is possible to load a compact taskbar alert pop-up into the system tray area (at the bottom right hand of your screen, just above the clock) so that you can minimise ibright® Enterprise and continue to work while the alerts pop up from time to time.

The taskbar alert pop-up works with the Alert Monitoring system described above.

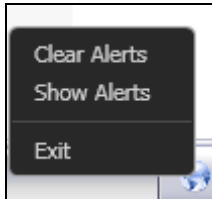


► Enable Taskbar Alerts

1. On the Search Panel Preferences tab (on page 18), check the **Enable Taskbar Alerts** option.

This will activate the taskbar alert pop-up, and an icon  will indicate its presence in the taskbar near your clock at the bottom right hand of your screen.

2. Click any alert to open the ibright® Enterprise main window and bring up the details of the asset responsible for the alert.
3. You can right-click the icon to bring up configuration options.



Clear Alerts removes any alerts already loaded into the pop-up.

Show Alerts reveals the pop-up even if it is currently hidden, so that you can view alerts.

4. To close it, right-click the taskbar alerts icon and click **Exit**, or click the **X** on the alert pop-up.

Trip View and Playback

You can view a historical timeline of events for an asset on a map, showing the route taken for one or more trips, and the alert events triggered along the route. You can compare a planned route with the actual route taken graphically.

Selecting Trips

In order to play back a trip, you must first select it. You can select more than one trip to play back.

► To select trips for playback:

1. In the Detail panel, bring up the Asset Details tab for the asset you wish to play back.
2. Expand the **Playback** section.
3. Select a date. All trips for the given date will appear in the **Trip Display** below the date selector.

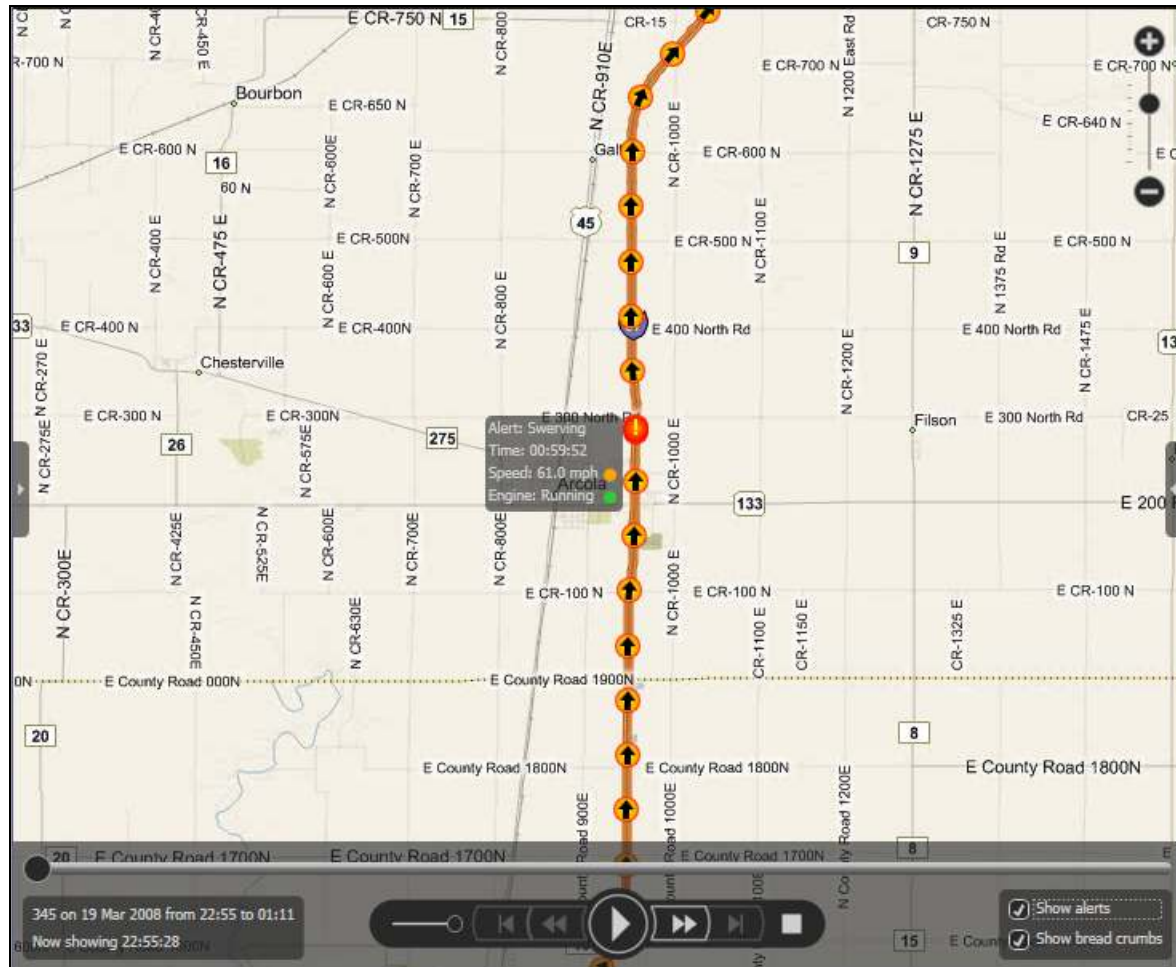


4. Select the trips you wish to play back. To select multiple trips, hold down the SHIFT button on your keyboard while selecting.
5. Click **Load** to launch the Playback window (see "Playback Window, Bar and Controls" on page 45).

Playback Window, Bar and Controls

The Playback window is loaded when you select one or more trips and click **Load** in the Asset Details tab **Playback** section - see Selecting Trips (on page 44).

Playback Window



Initially, it will zoom to show all the trips you have selected for playback. While it is loading the trips, the Progress Indicator (see below) will move from left to right to show the load progress - you cannot play back a trip until it is fully loaded.

Playback Bar

Use the **Playback bar** to control how you play back the selected trips. You can use the Zoom Functions (on page 24) to view more or less detail on the Playback window map. Controls will be active or inactive on the bar depending on how many trips you have selected to play back.












On the left of the playback controls, you'll see information on the asset, trip dates and times, and the current playback point and time.

On the right are two other controls.

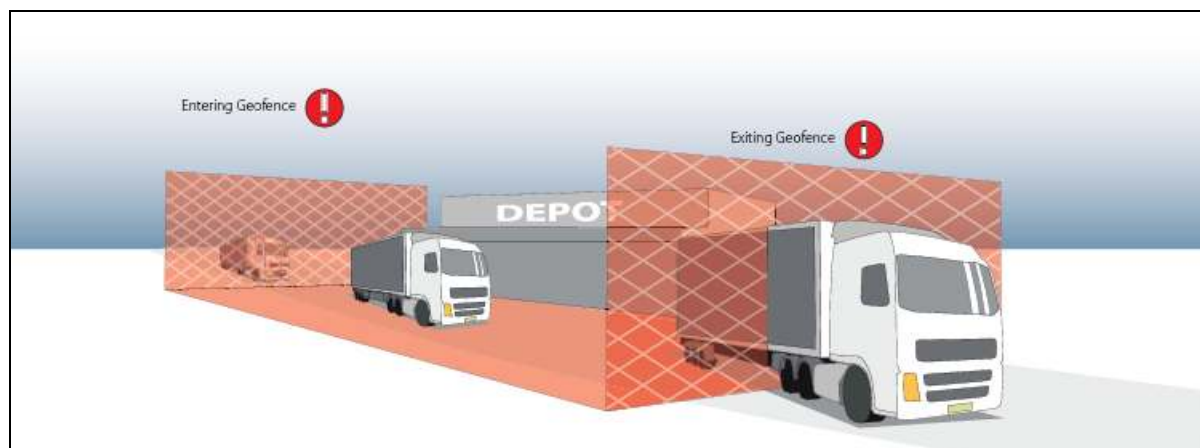
- **Show Alerts.** Selecting this will show all alerts (events generated according the ibright® unit's configuration settings) for the selected trip on the map. Click any alert to bring up a detail pop-up showing more information about it, as in the image above.
- **Show Breadcrumbs.** Breadcrumbs are simply markers along the route to help you visualize the trip more easily. Click any breadcrumb on the map to bring up a detail pop-up showing more information about it, as in the image above.

Main Playback Controls

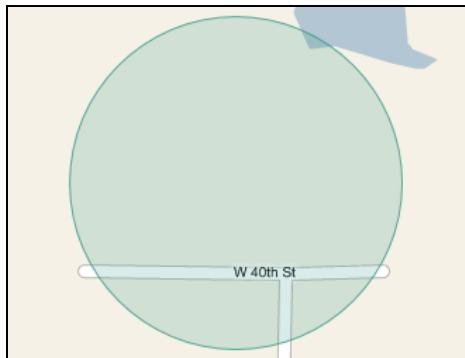
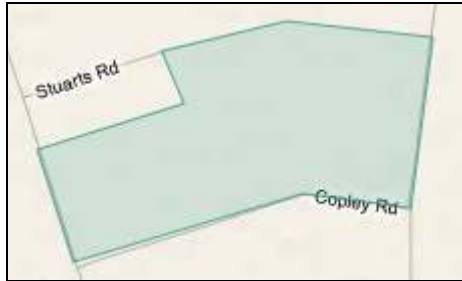
-  **Progress Indicator.** This indicator serves a dual purpose. While the selected trips are loading, it shows the load progress. While the playback is running, it serves as a playback progress indicator. You can drag the marker along the bar to quickly jump to a point along the trip, and the map will move accordingly.
-  **Playback Speed Control.** Drag to increase or decrease the speed of the playback.
-  **Previous Trip Control.** Click to go to the previous trip on the list of selected trips. This control will be inactive if only one trip is selected.
-  **Previous Position Control.** Click to move the playback to the previous position (breadcrumb).
-  **Play Control.** Click this to start playback. While playing, this control changes to **Pause**  to enable you to pause the playback.
-  **Next Position Control.** Click to move the playback to the next position (breadcrumb).
-  **Next Trip Control.** Click to go to the next trip on the list of selected trips. This control will be inactive if only one trip is selected.
-  **Stop Playback Control.** Click to stop the playback and exit the Playback window.

Geofences

Geofences are 'virtual areas' defined within the ibright® Solution that serve as checkpoints for asset movements.



You can have up to 10,000 Geofences stored in each ibright® unit. Once that's done, you can highlight predefined Geofence areas on the ibright® Enterprise map view and report on vehicles entering, remaining within or exiting those Geofences.



This helps monitor vehicle deliveries and schedules. You can see whether preferred suppliers are being used, and whether the vehicles are where they should be. Geofence movements can also be used to trigger capture of other metrics such as odometer readings.

You can click a Geofence in the Map window and load its details into a tab on the [Detail panel](#) (on page 25).

Note: To select a nested Geofence (Geofence within another Geofence) hold down CTRL on your keyboard when you click to select the Geofence.

You then have access to a number of Geofence related reports:

- Geofence Visit - Detail Report (on page 72).
- Geofence Visit - Summary Report (on page 73).

Older reports:

- Geofence Trip Report (on page 113).
- Geofence Visit Report (on page 114).
- Asset Congregation Report (on page 125).

For instructions on creating, editing and managing Geofences, see [Geofence Management](#) (on page 47).

Note: Creating, editing and managing Geofences is restricted to users with Administrator privileges.

Geofence Management

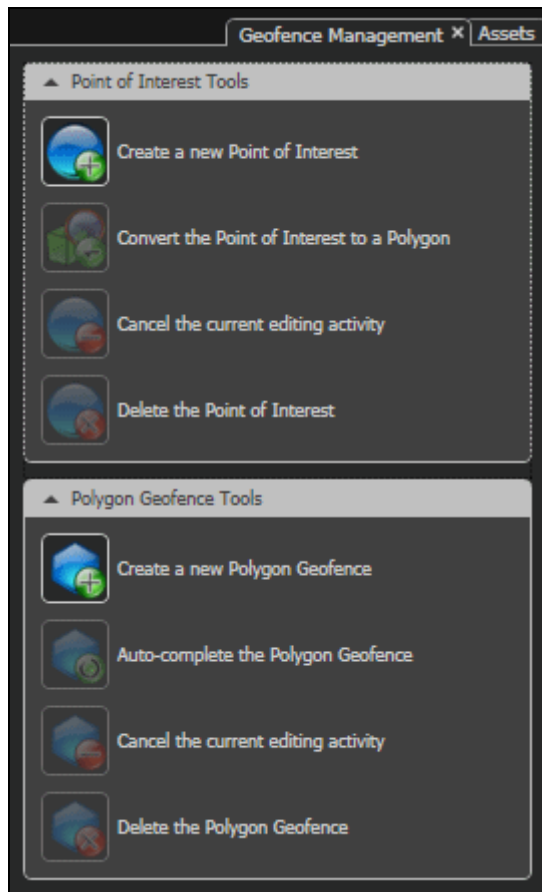
This interface is to create and manage Points of Interest (POI) and Geofences.

Note: Creating, editing and managing Geofences is restricted to users with Administrator privileges.

Launch the Geofence Management interface from the [Toolbar](#) (on page 25). Click the **Geofence Management** button, and a Geofence Management tab for your POI or Geofence will be loaded into the Detail panel. It will also be launched if you select a POI anywhere else in ibright® Enterprise, display its details (see "Finding a Location" on page 35) and click **Edit**.

You can create 2 types of Geofences:

- Point of Interest (POI) Geofence. This is a circular Geofence for which you specify the radius.
- Polygon Geofence. This is a Geofence with multiple sides and corners.



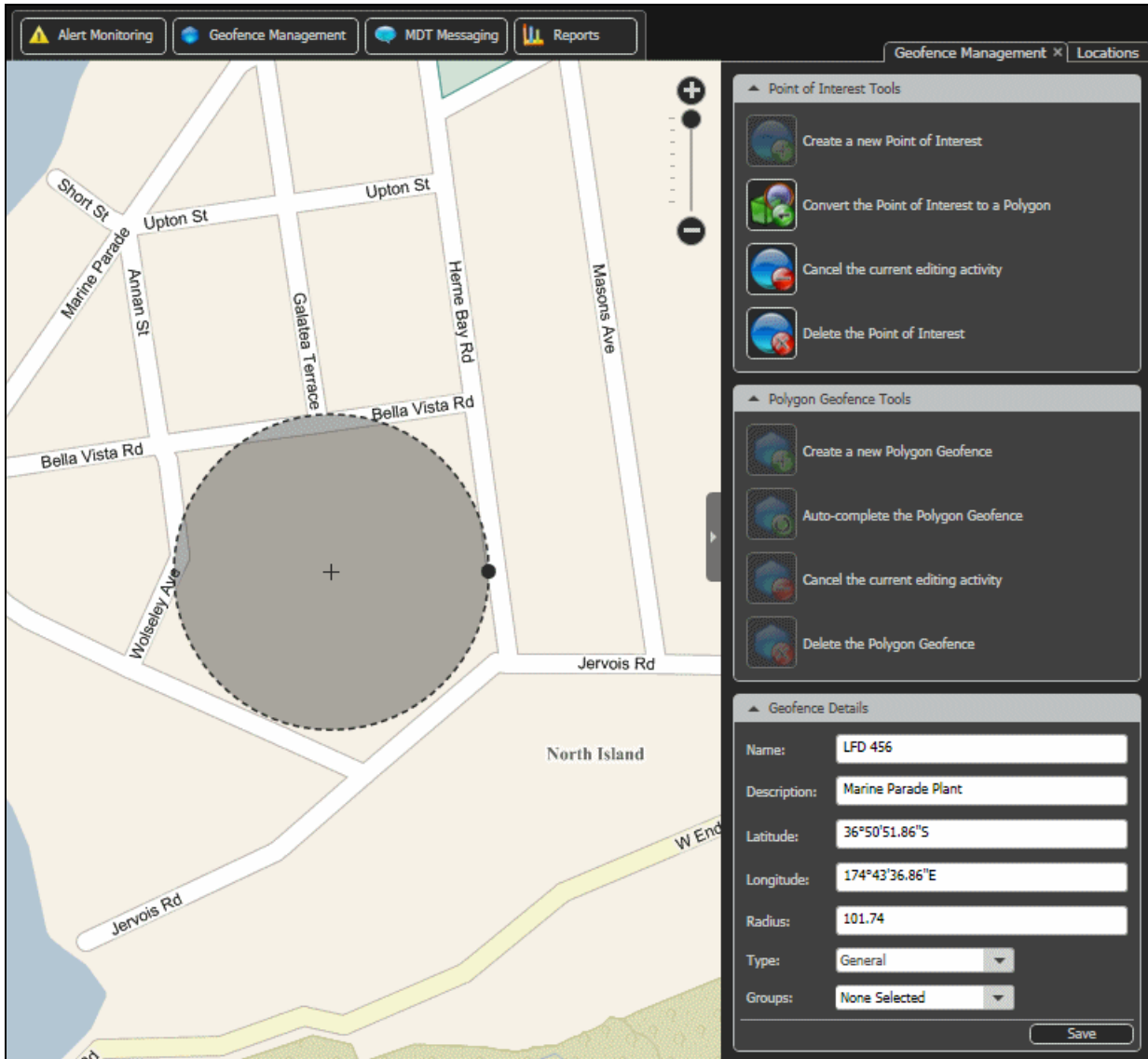
Point of Interest (POI) Geofence

A Point of Interest (POI) Geofence is a circular Geofence for which you specify the radius.

► Create and Manage a Point Of Interest (POI)

1. Click the **Geofence Management** button on the Toolbar to load a Geofence Management tab into the Detail Panel and create a new POI, or click **Edit** on the Details tab of an existing POI.
2. Click the **Create a new Point of Interest** button in the Point of Interest Tools section.
3. The mouse cursor will change to a large crosshair, allowing you to click and add a circular Point Of Interest in the Map window. The dot at the edge of the Point Of Interest (POI node) will change to a hand icon to allow you to resize the radius of the POI - click and drag to do this.
You can also reposition the POI by clicking and dragging the center point of the POI.

To cancel the edit process, click **Cancel the current editing activity** at any time.

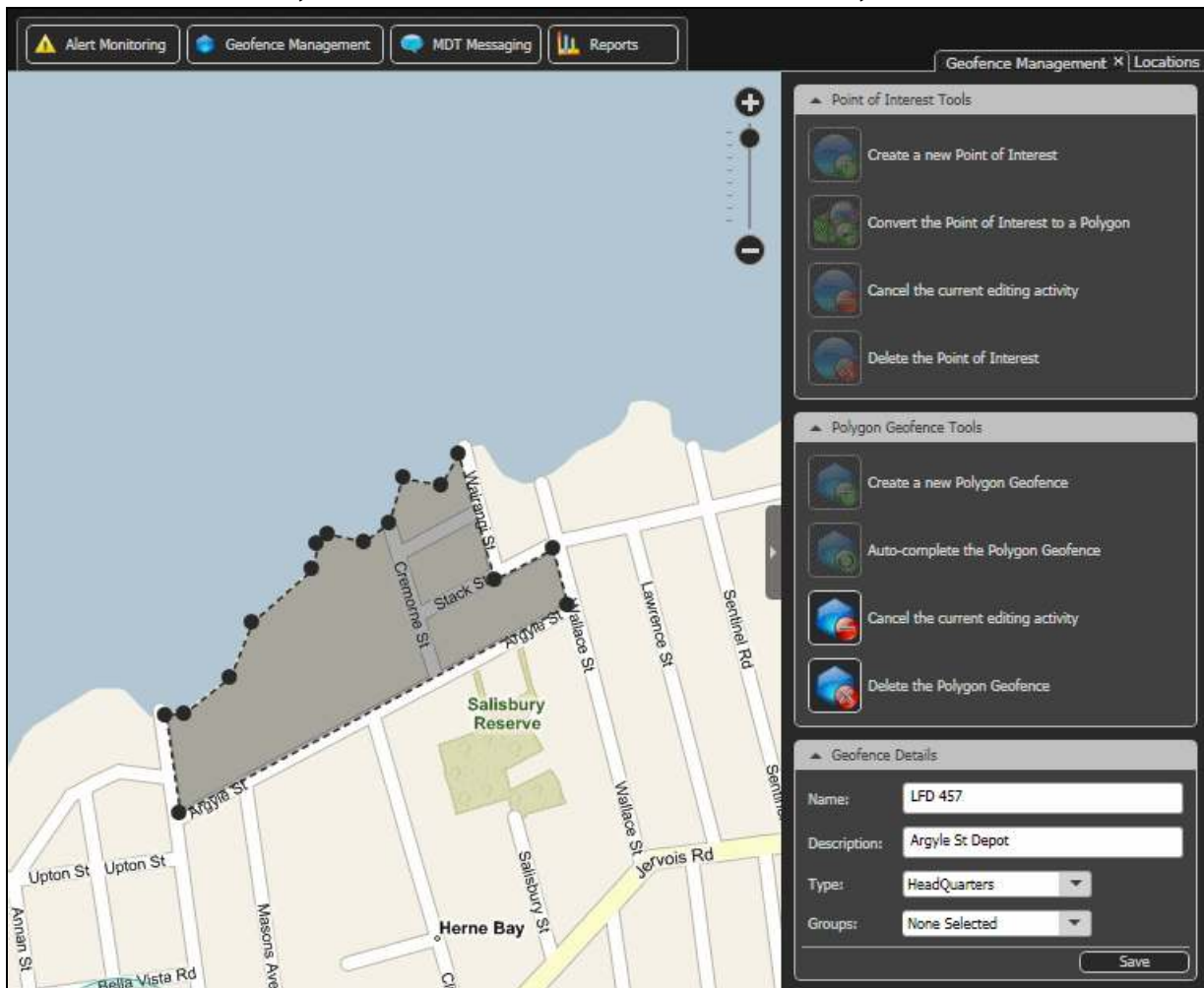


4. Enter the details for the POI into the Geofence Details section of the tab.
 - **Name.** This is what the POI will be named on the map and for search criteria.
 - **Description.** Enter a long description - for example **Marine Parade Plant**.
 - **Latitude** and **Longitude.** This is taken from the map window coordinates, but you can specify values if required. The values are expressed in standard DMS (Degrees, Minutes and Seconds) format.
 - **Radius.** This is the size of the POI - it is taken from the map window, but you can specify values if required.
 - **Type.** Select from a pre-configured POI Type.
 - **Groups.** Select from a list of pre-configured groups.
5. Click **Save** when you're done. The Geofence Management tab for the POI will now show the name you gave it in the step above, and the POI will become available for searches in the Quick Find field (see "Finding a Location" on page 35).
6. To delete the POI, select it in the map window and click **Delete the Point of Interest**.

Note: After saving the POI into the system, you can convert the POI to a Polygon and manage it as such (see below) by selecting **Convert the Point of Interest to a Polygon**. By default, the circular POI will be converted to an octagon.

- To complete the drawing process, click **Auto-complete the Polygon Geofence**. This button will be activated on generation of the third polygon point.

This closes the polygon, and creates the Geofence area on the map. At this point you are still in edit mode, and the Geofence is not yet saved - it is best to save the Geofence after you enter the details.



- Click each Geofence node (black dot) to adjust the size of the the polygon if required.
- Enter the details for the Geofence into the Geofence Details section of the tab.
 - Name**. This is what the Geofence will be named on the map, and for search criteria.
 - Description**. Enter a long description - for example **Argyle St Depot**.
 - Type**. Select from a pre-configured Geofence Type.
 - Groups**. Select from a list of pre-configured groups.
- Click **Save** when you're done. The Geofence Management tab for the Geofence will now show the name you gave it in the step above, and it will become available for searches in the Quick Find field (see "Finding a Location" on page 35).
- To delete the Geofence, select it in the map window and click **Delete the Polygon Geofence**.

Note: After editing a Geofence, it may require up to 15 minutes to become synchronized and updated on the ibright® units in your fleet.

Advanced Functions

This section covers advanced functions in ibright® Enterprise.

Communications and Messaging

ibright® Enterprise incorporates advanced messaging technology.

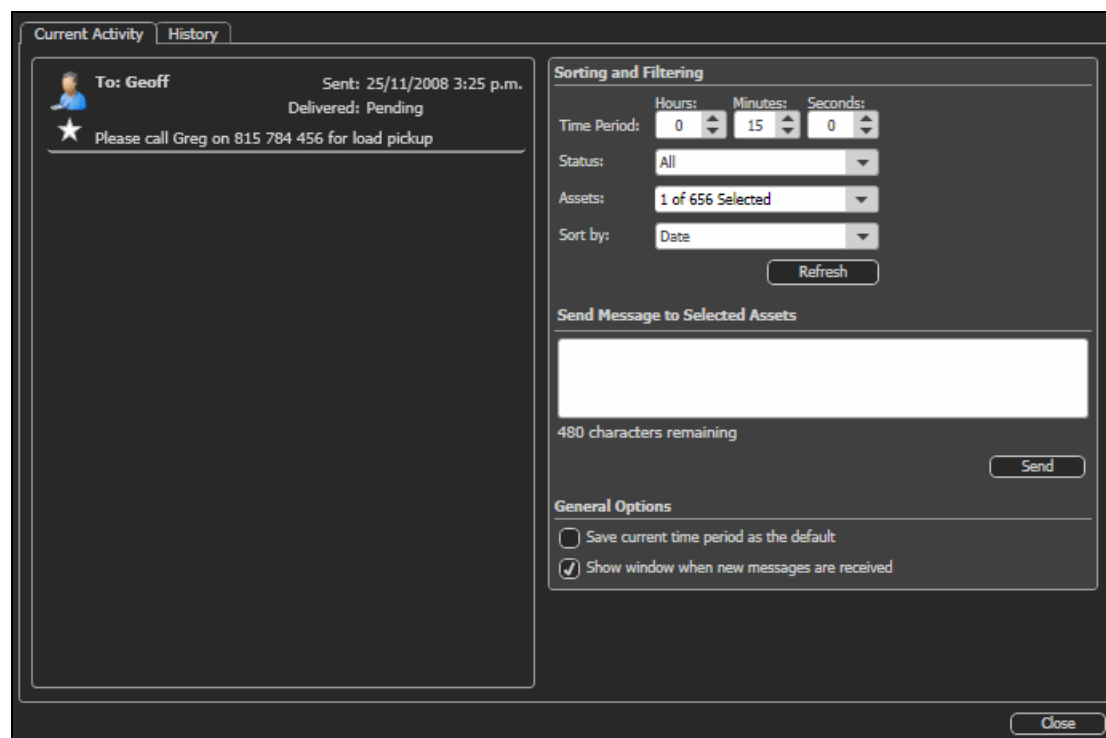
If your assets are equipped with Mobile Data Terminals (MDTs), you can use the MDT Messaging features of ibright® Enterprise to communicate with operators in the field, broadcast messages, view message history records for assets and record messages in a report (see "MDT (Mobile Data Terminal) Message Report" on page 117).

Note: MDT Messaging may require additional hardware.

MDT Messaging Window


Sending messages to an individual MDT and receiving replies from it is done in the MDT Messaging window. To

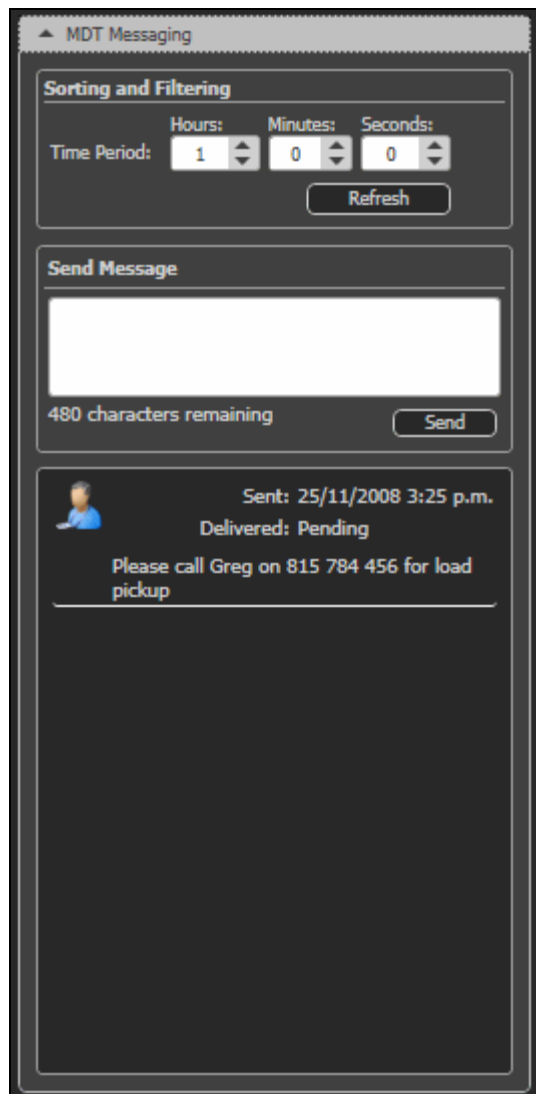
launch it, click the MDT Messaging button  on the ibright® Enterprise Toolbar.






The MDT Messaging window will show the **Current Activity** tab by default. To view historical messages, select the **History** tab (see "Message History" on page 54).

You can use this window to message a single asset, or select a number of assets and broadcast a message to them (see "Sending and Receiving Messages" on page 54).

You can also quickly send a message from the MDT Messaging section of any [Asset Details tab](#) (see "Detail Panel" on page 25). This section is collapsed by default. To expand the MDT Messaging section on an Asset Details tab, click the section expander .



MDT Message Window Icons and Status

-  **Operator Icon.** This represents the operator at the base station sending the message (you).
-  **MDT Icon.** This represents the MDT unit installed in the asset.
-  **Recent Message Icon.** This icon is simply to indicate the most recently received messages.

Messages from you will show **Sent** and **Delivered** times. If the destination MDT unit has not received the message, the Delivered status will show as **Pending**, and it will later be replaced with the date and time of delivery.

If the destination MDT unit replies, the message will be updated with an indented **Replied** date and time.

Sending and Receiving Messages

▶ To send and receive messages, or broadcast a message:

1. Open the MDT Messaging window or the MDT Messaging section of an Asset Details tab.
2. By default, the window will show messages to and from all assets within the last 15 minutes. Change the time span if necessary. For more a more extensive messaging history, see the **History** tab (see "Message History" on page 54).
3. If you're working in the MDT Messaging window, you can select the assets you wish to message in the **Assets** field of the Sorting and Filtering section. Check or uncheck assets to select or deselect individual assets as required.
You can also click **Select All** at the bottom, or **Clear** to deselect all selected assets.
As you do so, the Assets field will show you how many assets you have selected.
4. Click **Refresh** to apply your changes.
5. Type your message into the **Send Message [to Selected Assets]** field.

Note: Remember that if you have configured the **Assets** field to select more than one asset, you will be **broadcasting** the message.

6. Click **Send**.

Note: Please keep your messages brief. Long messages will be a distraction (and possibly a traffic hazard) to the person receiving the message.

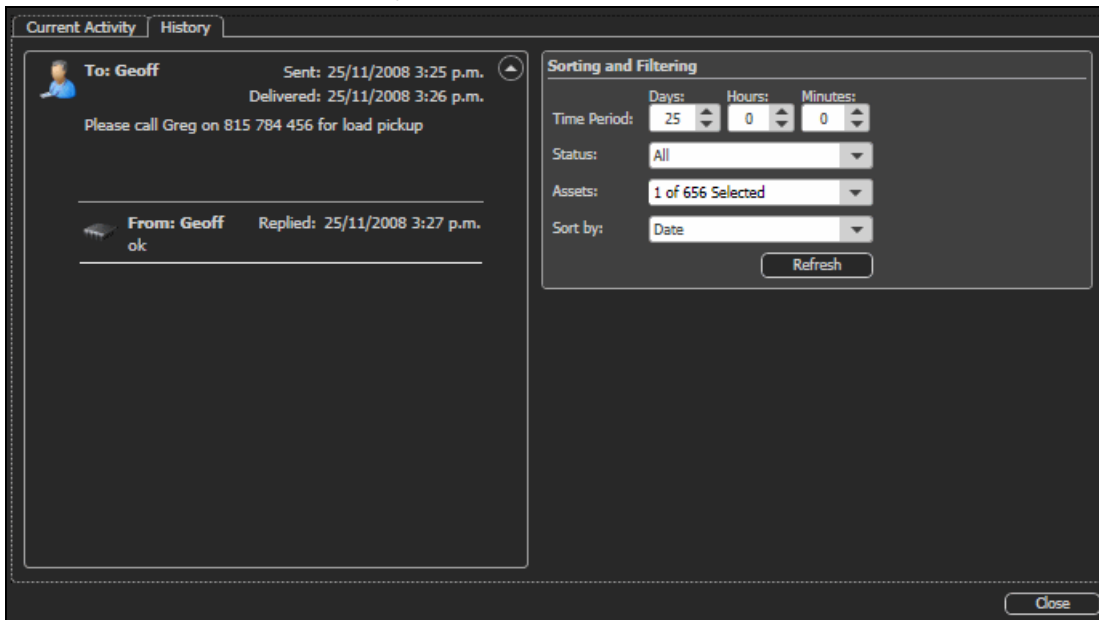
7. ibright® Enterprise will receive messages from MDT units in the background. To view them, you must have the MDT Messaging window or the MDT Messaging section on any Asset Details tab open. The responses to your message will be displayed below the sent message.

Message History

Messaging activity over a longer period can be reviewed in the Message History window. You can also generate a report that lists all messages for a given asset: see [MDT \(Mobile Data Terminal\) Messaging Report](#) (see "MDT (Mobile Data Terminal) Message Report" on page 117).

► **To view the messaging history:**

1. Open the MDT Messaging window or the MDT Messaging section of an Asset Details tab.
2. Click the **History** tab. The Sorting and Filtering section is set by default to show the messaging history for the last 1 day, but will not show messages until you click the Refresh button to conserve system resources.
3. Click **Refresh** to load the messages.



4. You can sort by Time Period and Assets to further refine the message history selection. Click **Refresh** again to view the results of the Sorting and Filtering settings changes.
5. Click **Close** when you are done.

Trailer Management

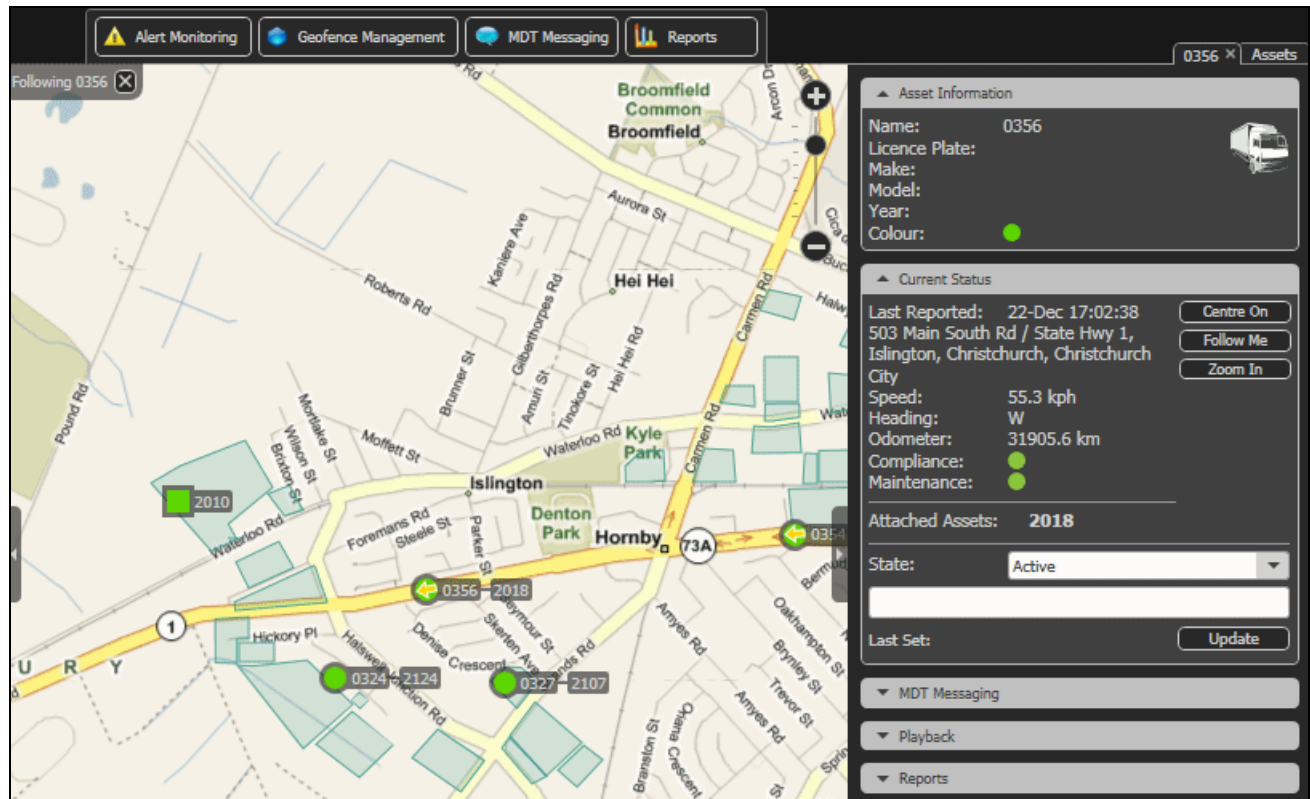
Trailers can be linked to assets in ibright® Enterprise using a PLC (Power Line Communication) Reader in the tractor asset, and a PLC ID device in the trailer.

Its icon in the Map window is square, to differentiate it from other assets (for example, tractor units).



Note: Trailer Management is a separate component of ibright® Enterprise, and may need to be purchased separately.

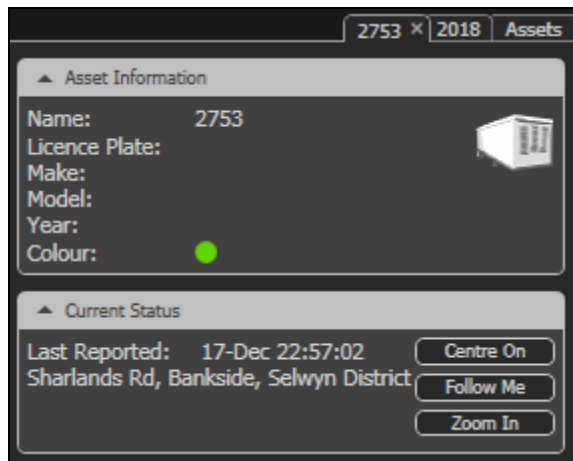
Wiring assets for PLC hardware is a specialized process, and PLC related maintenance should be performed only by qualified technicians. Please contact us for support (see "Contact Information" on page 8), and to arrange for consultant services if required.



As the image above shows, a trailer unit linked to an asset is shown in the map window attached to the relevant asset icon, and also reported in the Current Status section of the Asset Details tab (see "Asset Details" on page 30).

Last Reported Position

The trailer's last reported position will be shown even if unlinked from its attached asset. This information is retained in the system for three months.



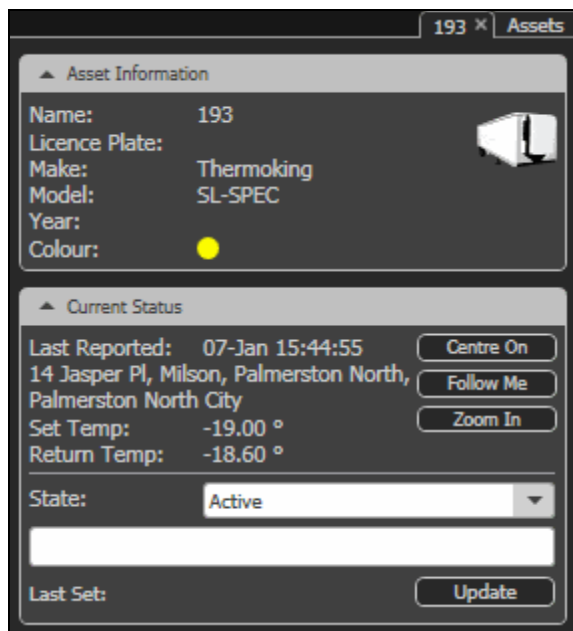
Refrigerated Units

The ibright® Solution is also able to monitor and manage refrigerated trailers ('reefers').

This requires a different hardware configuration to the standard trailer installation, as monitoring the unit's temperature is just as important as monitoring its location and movements.

An ibright® unit is installed in the refrigerated unit, and configured to monitor temperature as well as movement.

It behaves in much the same way as an asset.



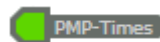
The Map window Asset Details pop-up (see "Map Window Asset Icons and Pop-ups" on page 23) and the Asset Details tab (see "Asset Details" on page 30) will report on the temperature threshold (Set Temp) compared with the actual temperature (Return Temp).

Note: In situations where the tractor and the refrigerated trailer both have an ibright® unit installed and they are both mobile, you may occasionally see a gap between the two as you follow their progress on the map, as they are each independently reporting their positions to ibright® Enterprise.

Compactor Assets

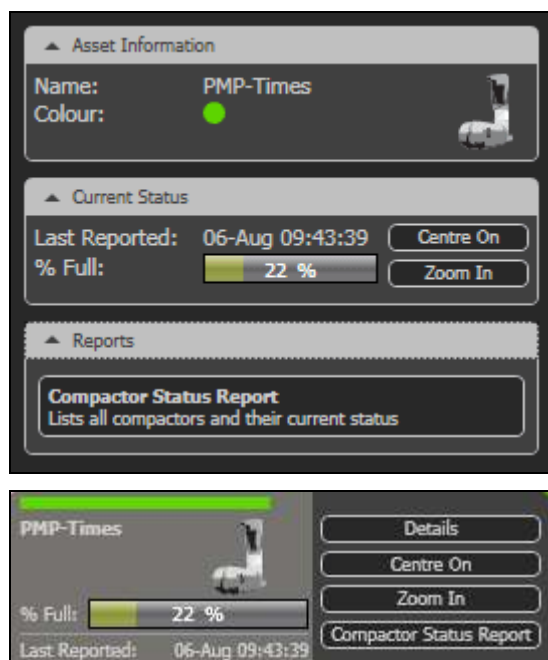
This section is intended exclusively for customers managing compactor assets, and will not be available to all customers. Please [contact us](#) (see "Contact Information" on page 8) if you wish to purchase this add-in.

A compactor asset shows a different icon in the [map window](#) (see "Map Window Asset Icons and Pop-ups" on page 23).



The asset must have been configured and provisioned as a compactor by the International Telematics Operations team - without this step, the relevant assets will not be identified as compactors and show in [ibright® Enterprise](#) as standard assets.

Once this has been done, all relevant detail windows for the asset will show a **% Full** bar graph in the Current Status section and in the Map window Asset Detail pop-up.



If you'd like to view the compactor status in more detail and drill down to view status conditions over the last 24 hours, see the [Compactor Report](#) (on page 104).

[ibright® Enterprise](#) also has pre-configured compactor specific alerts. See [Alert Monitoring](#) (on page 41).

Reports

This section covers the various reports you can generate from the Reports portal of ibright® Enterprise.

Some older reports, soon to be superseded, are available from report selection bars in the Detail Panel. See [Detail Panel Reports](#) (on page 110).

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Common Report Controls

This section covers common controls for ibright® Enterprise reports. Use this section to understand how the reports work, and then apply those common principles to any report within ibright® Enterprise.

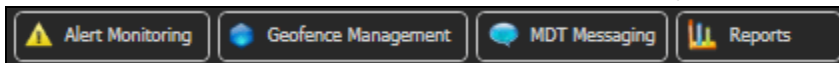
In This Section

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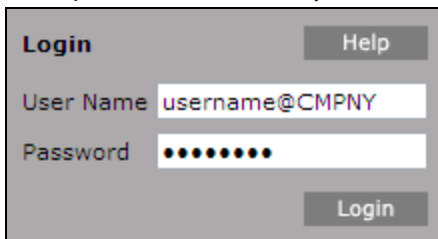
Reports Portal

▶ Launch the Reports Portal

1. The Reports Portal is launched from the Toolbar (on page 25). Click the **Reports** button to launch the portal.

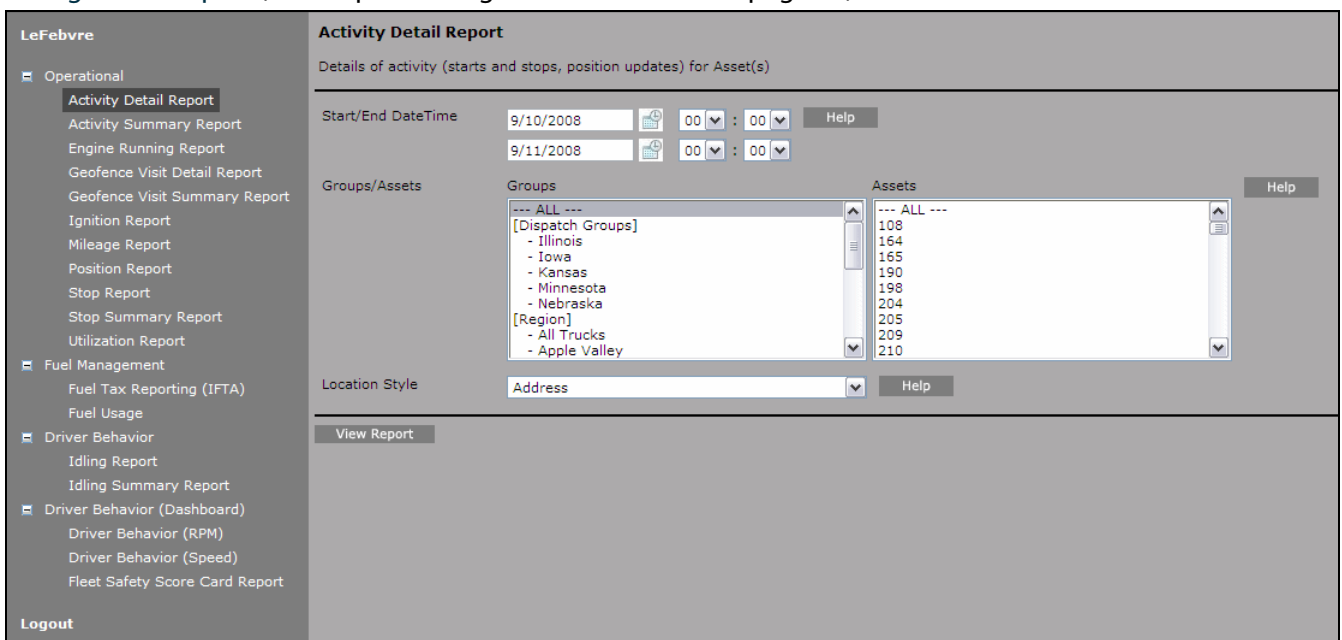


2. In most cases the Reports Portal below will launch directly, using your ibright® Enterprise login details. In some circumstances (for example, if you launch the Reports Portal independently of ibright® Enterprise) you may be required to log in to the Reports Portal. Enter your username in the format below (replace the example text with your own username, enterprise code and password) and click **Login**.



If you do not know your username, password or enterprise code, contact us (see "Contact Information" on page 8).

3. You can select a report to run from the Report Selection panel on the left. On the right are the options to configure the report (see "Report Configuration Controls" on page 63).



Generate a Report

► To generate a report:

1. Click the report link (for example, the Activity Detail Report link below) to select it.


Note: The availability of reports is governed by your fleet configuration, and not all reports may be available to you. If the report you require is not listed in the Report Selection panel, please contact us (see "Contact Information" on page 8).

Activity Detail Report	Details of activity (starts and stops, position updates) for Asset(s)
-------------------------------	---

To the right of the report link, you'll see a brief description of the report.

2. Make your report configuration selections (see "Report Configuration Controls" on page 63).
3. Click **View Report** to generate the relevant report.

If the selection criteria are incorrect and need to be modified, you'll see a validation error:



The following validation issues are preventing the report from being viewed. Please resolve each item and try again:

[+] Start/End DateTime: Start Date must precede End Date.

In the example above, this report has been configured to enforce a date range greater than 1. Change the date range to span 2 days or more, and the report will generate without a problem.

4. The report will be displayed in a separate browser window (depending on your browser settings, it may launch in a new tab instead of a new window).

Activity - Detail
Page 1 of 1

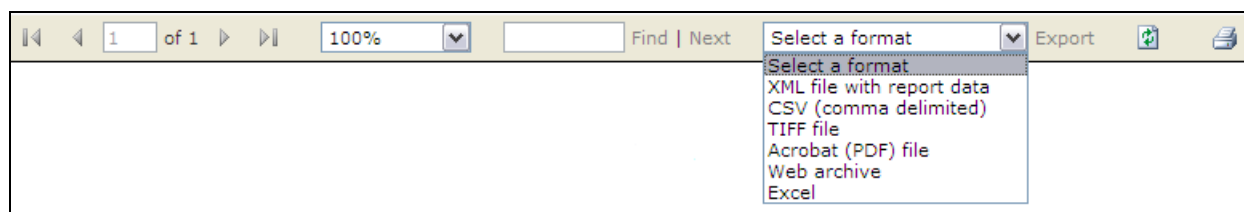
10/16/2008 12:00 AM - 10/16/2008 07:00 AM (07 h 00 m 00 s)

Report Definition		Detailed overview of activity for selected assets.		
Summary				
Asset:	259			
Total travel time:	00 h 01 m 00 s			
Total stop time:	06 h 59 m 00 s			
Percentage of period stopped:	100%			
Total Distance (mi)	0.0			
Number of stops:	3			
Average stop time:	02 h 19 m 40 s			
Legend				
	Stopped < 5 minutes in duration			
	Stopped > 5 minutes and less than 1 hour in duration (2 stop periods)			
	Stopped > 1 hour in duration (1 stop period)			
The results below show data for the selected duration range only. Where the selected range differs from the actual duration range for the activity, actual duration ranges are indicated either above or below the report results.				
Date	Time	Status	Distance (mi)	Location
<i>Actual start date/time: 10/15/2008 05:37 PM</i>				
10/16/2008	12:00 AM	Parked (08 h 20 m 32 s)	0.0	5082 Cty Hwy 101, Shakopee CITY, Minnesota 55379
10/16/2008	06:20 AM	Trip Start	0.0	5082 Cty Hwy 101, Shakopee CITY, Minnesota 55379
10/16/2008	06:21 AM	Parked (00 h 05 m 24 s)	0.0	5071 Cty Hwy 101, Shakopee CITY, Minnesota 55379
10/16/2008	06:26 AM	Trip Start	0.0	5071 Cty Hwy 101, Shakopee CITY, Minnesota 55379
10/16/2008	06:26 AM	Parked (00 h 33 m 04 s)	0.0	5075 Cty Hwy 101, Shakopee CITY, Minnesota 55379
10/16/2008	06:59 AM	Trip Start	0.0	5075 Cty Hwy 101, Shakopee CITY, Minnesota 55379
<i>Actual end date/time: 10/16/2008 07:42 AM</i>				

The report can now be printed or saved to a file - see below for a description of the Report Toolbar (on page 62).

Report Toolbar

Most report windows show a common toolbar with navigation, zoom, search, export and print controls.



- **Page Navigation.** Use the arrow controls at the left of the toolbar to move quickly to the beginning or end of the report, or between the pages, or specify a page number.
- **Zoom.** The zoom control will display the report at **100%** by default. You can select other zoom options from the drop-down list, including **Page Width** and **Whole Page**.
- **Find.** To find a text string within the report, type it into the search field and click **Find**. To find each subsequent occurrence of the search text, click **Next**.
- **Export.** You can select an Export format to export the contents of the report to any of the options listed in the associated drop-down list (see above).
- **Refresh.** You can refresh the data with the button on the right of the export selection field. You may want to do this if you change report configuration options and then want to apply the options to the report results.
- **Print.** You can also print the report directly to your default printer with the button at the extreme right hand of the toolbar. Some reports have a **Print** button at the top left hand of the report.

Report Configuration Controls

Use this section to understand how to configure reports so that you get the information you need as quickly as possible.

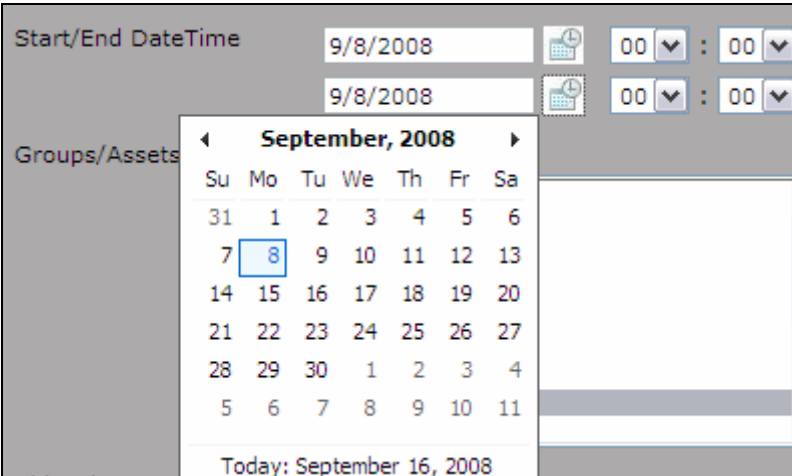
In This Section

Date and Time	63
Groups and Assets	64
Location Style	65
Time Threshold	65
Hide Chart	65
Fuel Price	65
Rate (PTO Reports)	65
Show Inactive and Online Assets	66

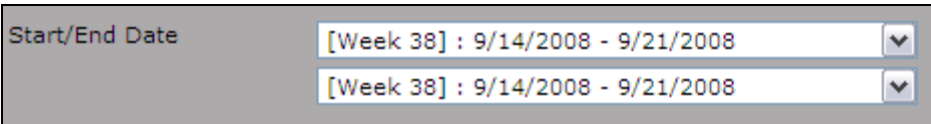
Date and Time

The reports allow you to specify a date / time range for each report from drop-down lists.

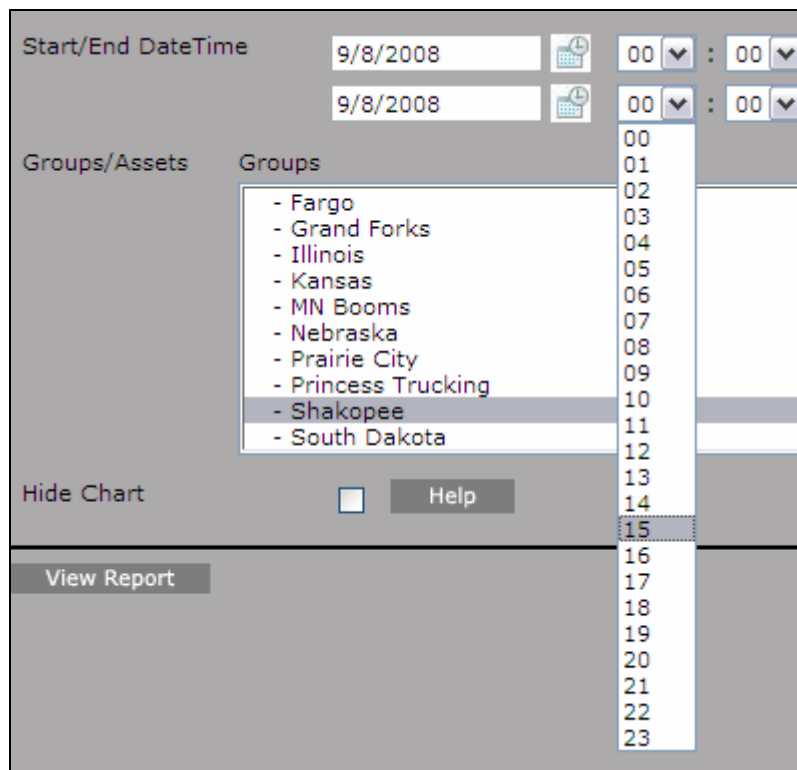
Dates are selected from calendar type date pickers.



In some reports, the date range selection is by week.

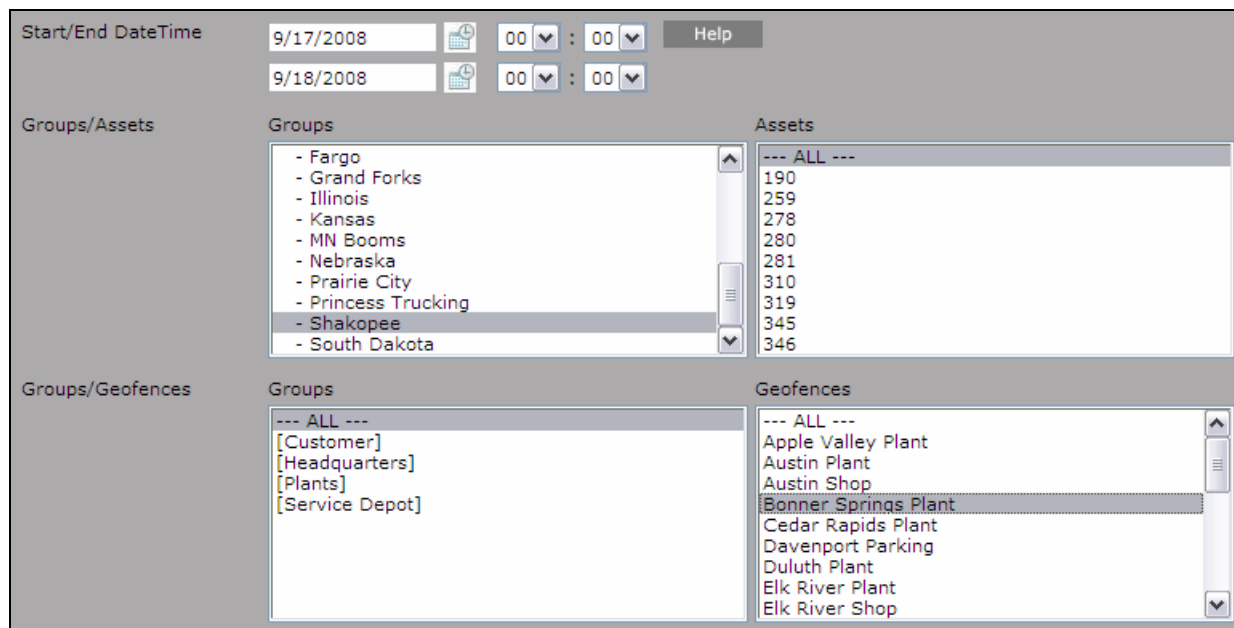


Times are selected from the drop-down lists next to the date pickers. Note that times are displayed in 24-hour clock format.



Groups and Assets

Group and Asset selection is crucial in determining the content of the report.



For example, if you wish to find all Geofences that a particular asset has visited, you would select it in the Assets configuration window above, and set the Groups/Geofences configuration windows to **ALL**.

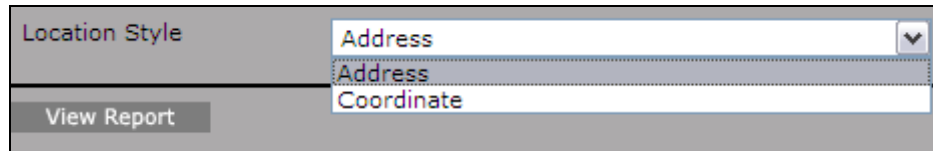
Conversely, if you wish to find all assets that have visited a particular Geofence, set the Groups/Assets configuration windows to **ALL** and select the Geofence required in the Geofences configuration window.

You can use combinations of these selections as required - for example, to find all assets in the Shakopee asset group that have visited the Bonner Springs Plant within the date range, you would use the selections shown in the image above.

Tip: Hold down CTRL on your keyboard and click items in the lists to make multiple selections. Some reports do not allow selection of more than one asset - for example, the RPM Report and Speed Report.

Location Style

This option allows you to choose the way locations will be presented in the generated report.



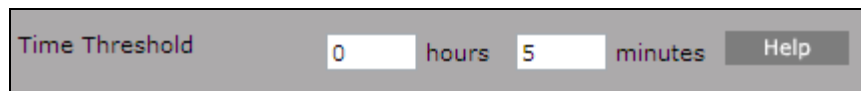
The screenshot shows a dropdown menu for 'Location Style'. The menu is open, showing two options: 'Address' and 'Coordinate'. The 'Address' option is currently selected. Below the dropdown is a 'View Report' button.

You can set locations to display either as:

- Standard addresses, or
- GPS coordinates with latitude and longitude.

Time Threshold

Some time based reports require a user defined time threshold.



The screenshot shows two input fields for 'Time Threshold'. The first field contains the number '0' followed by the text 'hours'. The second field contains the number '5' followed by the text 'minutes'. There is a 'Help' button to the right of the second field.

Enter a value in **hours** and/or **minutes**.

A typical value for the Idling report would be 5 minutes, as shown in the example above.

Hide Chart

This option allows you to switch off the pie graph that is automatically generated when multiple assets are selected for the report query.



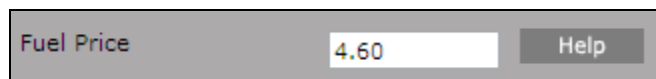
The screenshot shows a checkbox labeled 'Hide Chart'. The checkbox is currently unchecked. There is a 'Help' button to the right of the checkbox.

Note: When more than 20 asset records will be returned by the relevant report, this option will be activated by default.

Fuel Price

This option is specific to Fuel Management reports.

You can specify a value in **dollars per gallon**.



The screenshot shows an input field for 'Fuel Price' containing the value '4.60'. There is a 'Help' button to the right of the input field.

Rate (PTO Reports)

Note: This option is specific to PTO (Power Take-Off) reports. PTO reports are optional - contact us (see "Contact Information" on page 8) for more information.

This option allows you to specify an unload rate for the Power Take-Off attached to your fleet asset.

Enter a value for **lbs/mn** (pounds per minute).



The screenshot shows an input field for 'Rate' containing the value '1500'. There is a 'Help' button to the right of the input field.

Show Inactive and Online Assets

Note: This option is specific to the Asset Status Report (on page 70).

The Asset Status Report shows offline assets by default. These options allow you to specify that inactive and online assets should be included in the report results.

They are unchecked by default.

Show Inactive	<input type="checkbox"/>	Help
Show Online	<input type="checkbox"/>	Help

Operational Reports

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PTO Unload by Asset - Detail Report	77
PTO Unload by Asset - Summary Report	77
PTO Unload by Location - Detail Report	79
PTO Unload by Location - Summary Report	79
Stop - Detail Report	81
Stop - Summary Report	82

Activity - Detail Report

This report shows a detailed overview of activity for selected assets.

Use this report to gain an overview of asset activity for a selected period, including location, time and distance information for those events.

For step-by-step instructions on running reports and related actions, see Common Report Controls (on page 60).

Configuration Options:

- Date and Time (on page 63).
- Groups and Assets (on page 64).
- Location Style (on page 65).

Report Definition		Detailed overview of activity for selected assets.																																										
<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>Activity - Detail</p> <p>10/16/2008 12:00 AM - 10/16/2008 07:00 AM (07 h 00 m 00 s)</p> </div> <div style="width: 10%; text-align: right;">Page 1 of 1</div> </div>																																												
<table border="1" style="width: 100%;"> <thead> <tr> <th colspan="2">Summary</th> <th colspan="3">Legend</th> </tr> </thead> <tbody> <tr> <td>Asset:</td> <td>259</td> <td style="background-color: #90EE90;"></td> <td colspan="2">Stopped < 5 minutes in duration</td> </tr> <tr> <td>Total travel time:</td> <td>00 h 01 m 00 s</td> <td style="background-color: #FFFF00;"></td> <td colspan="2">Stopped > 5 minutes and less than 1 hour in duration (2 stop periods)</td> </tr> <tr> <td>Total stop time:</td> <td>06 h 59 m 00 s</td> <td style="background-color: #FF0000;"></td> <td colspan="2">Stopped > 1 hour in duration (1 stop period)</td> </tr> <tr> <td>Percentage of period stopped:</td> <td>100%</td> <td colspan="3"></td> </tr> <tr> <td>Total Distance (mi)</td> <td>0.0</td> <td colspan="3"></td> </tr> <tr> <td>Number of stops:</td> <td>3</td> <td colspan="3"></td> </tr> <tr> <td>Average stop time:</td> <td>02 h 19 m 40 s</td> <td colspan="3"></td> </tr> </tbody> </table>					Summary		Legend			Asset:	259		Stopped < 5 minutes in duration		Total travel time:	00 h 01 m 00 s		Stopped > 5 minutes and less than 1 hour in duration (2 stop periods)		Total stop time:	06 h 59 m 00 s		Stopped > 1 hour in duration (1 stop period)		Percentage of period stopped:	100%				Total Distance (mi)	0.0				Number of stops:	3				Average stop time:	02 h 19 m 40 s			
Summary		Legend																																										
Asset:	259		Stopped < 5 minutes in duration																																									
Total travel time:	00 h 01 m 00 s		Stopped > 5 minutes and less than 1 hour in duration (2 stop periods)																																									
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<p>The results below show data for the selected duration range only. Where the selected range differs from the actual duration range for the activity, actual duration ranges are indicated either above or below the report results.</p>																																												
Date	Time	Status	Distance (mi)	Location																																								
<i>Actual start date/time: 10/15/2008 05:37 PM</i>																																												
10/16/2008	12:00 AM	Parked (08 h 20 m 32 s)	0.0	5082 Cty Hwy 101, Shakopee CITY, Minnesota 55379																																								
10/16/2008	06:20 AM	Trip Start	0.0	5082 Cty Hwy 101, Shakopee CITY, Minnesota 55379																																								
10/16/2008	06:21 AM	Parked (00 h 05 m 24 s)	0.0	5071 Cty Hwy 101, Shakopee CITY, Minnesota 55379																																								
10/16/2008	06:26 AM	Trip Start	0.0	5071 Cty Hwy 101, Shakopee CITY, Minnesota 55379																																								
10/16/2008	06:26 AM	Parked (00 h 33 m 04 s)	0.0	5075 Cty Hwy 101, Shakopee CITY, Minnesota 55379																																								
10/16/2008	06:59 AM	Trip Start	0.0	5075 Cty Hwy 101, Shakopee CITY, Minnesota 55379																																								
<i>Actual end date/time: 10/16/2008 07:42 AM</i>																																												

Activity - Summary Report

This report is a summarized version of the Activity Detail Report (see "Activity - Detail Report" on page 68).

For step-by-step instructions on running reports and related actions, see Common Report Controls (on page 60).

Configuration Options:

- Date and Time (on page 63).
- Groups and Assets (on page 64).

Activity - Summary

10/16/2008 12:00 AM - 10/16/2008 07:00 AM (07 h 00 m 00 s)

Report Definition		Summary overview of activity for selected assets.						
Asset	Total Distance (mi)	Total Trips	Total Trip Time	Average Trip Time	Total Stops	Total Stop Time	Average Stop Time	Max Speed (mph)
259	21.9	3	00 h 01 m 00 s	00 h 00 m 20 s	3	08 h 59 m 00 s	02 h 19 m 40 s	61.02

Asset Status Report

This report shows the status of selected assets.

Use it to get an overview of an asset's current status, including any specific status messages that may have been manually configured (see "Current Status Section" on page 31).

It is set to display active assets by default. Use the configuration options below to add **inactive** and **offline** assets to the report results.

For step-by-step instructions on running reports and related actions, see [Common Report Controls](#) (on page 60).

Configuration Options:

- [Date and Time](#) (on page 63).
- [Groups and Assets](#) (on page 64).
- [Show Inactive and Online Assets](#) (on page 66).

Asset Status						Page 1 of 8
Report Definition			Status information for selected assets.			
Showing Online Assets: Yes						
Showing Inactive Assets: Yes						
Asset	Last Reported	Time Since Last Reported	Connected	Status	Last Known Location	
108	11/28/2008 03:15 AM	00 h 43 m 37 s	Online	Active - Ignition Off	663 N Cleveland Ave, St. Paul CITY, Minnesota 55104	
164	11/28/2008 03:39 AM	00 h 20 m 19 s	Online	Active - Ignition Off	Ning, Elk River CITY, Minnesota	
165	11/28/2008 03:43 AM	00 h 15 m 29 s	Online	Active - Ignition Off	Ning, Otsego CITY, Minnesota	
190	11/28/2008 03:16 AM	00 h 42 m 54 s	Online	Active - Ignition Off	5047 Cty Hwy 101, Shakopee CITY, Minnesota 55379	
198	10/16/2008 06:00 AM	42 d 16 h 59 m	Offline	Active - Ignition Off		

Engine Running Report

This report shows details of engine running activity for a selected period.

It is useful to help estimate how many engine hours have been clocked up for an asset, and proactively schedule engine maintenance.

For step-by-step instructions on running reports and related actions, see Common Report Controls (on page 60).

Configuration Options:

- Date and Time (on page 63).
- Groups and Assets (on page 64).
- Location Style (on page 65).

Engine Running						Page 1 of 1
Report Definition						10/16/2008 12:00 AM - 10/16/2008 07:00 AM (07 h 00 m 00 s)
Engine running activity for selected assets.						
Asset						259
The results below show data for the selected duration range only. Where the selected range differs from the actual duration range for the activity, actual duration ranges are indicated either above or below the report results.						
Date	Time	Duration	Start Location	End Location		
10/16/2008	06:15 AM	00 h 05 m 32 s	5082 Cty Hwy 101, Shakopee CITY, Minnesota 55379	5071 Cty Hwy 101, Shakopee CITY, Minnesota 55379		
10/16/2008	06:28 AM	00 h 33 m 41 s	5071 Cty Hwy 101, Shakopee CITY, Minnesota 55379	1231 70th St, Shakopee CITY, Minnesota 55379		
Actual engine off date/time: 10/16/2008 08:55 AM						

Geofence Visit - Detail Report

This report shows the movements of the selected assets between Geofences, including total duration and distance during the selected range. For more information, see [Geofences](#) (on page 46).

The configuration options also allow selecting of assets within asset groups as well as Geofence groups.

For step-by-step instructions on running reports and related actions, see [Common Report Controls](#) (on page 60).

Configuration Options:

- [Date and Time](#) (on page 63).
- [Groups and Assets](#) (on page 64).

Group and Asset selection is crucial in determining the content of the report.

Start/End DateTime	Groups/Assets	Groups/Geofences	Assets/Geofences
9/17/2008 00:00 9/18/2008 00:00	<ul style="list-style-type: none">- Fargo- Grand Forks- Illinois- Kansas- MN Booms- Nebraska- Prairie City- Princess Trucking- Shakopee- South Dakota	<ul style="list-style-type: none">--- ALL ---[Customer][Headquarters][Plants][Service Depot]	<ul style="list-style-type: none">--- ALL ---190259278280281310319345346 <ul style="list-style-type: none">--- ALL ---Apple Valley PlantAustin PlantAustin Shop- Bonner Springs PlantCedar Rapids PlantDavenport ParkingDuluth PlantElk River PlantElk River Shop

For example, if you wish to find all Geofences that a particular asset has visited, you would select it in the Assets configuration window above, and set the Groups/Geofences configuration windows to **ALL**.

Conversely, if you wish to find all assets that have visited a particular Geofence, set the Groups/Assets configuration windows to **ALL** and select the Geofence required in the Geofences configuration window.

You can use combinations of these selections as required - for example, to find all assets in the Shakopee asset group that have visited the Bonner Springs Plant within the date range, you would use the selections shown in the image above.

Tip: Hold down CTRL on your keyboard and click items in the lists to make multiple selections. Some reports do not allow selection of more than one asset - for example, the RPM Report and Speed Report.

Page 1 of 1

Geofence Visit - Detail

10/16/2008 12:00 AM - 10/16/2008 11:00 PM (23 h 00 m 00 s)

Report Definition	Geofence visits for selected assets.		
Summary			
Asset:	259		
Number of Geofence visits:	6		
Average Geofence visit:	01 h 34 m 40 s		
The results below show data for the selected duration range only. Where the selected range differs from the actual duration range for the activity, actual duration ranges are indicated either above or below the report results.			
Geofence	Arrival Time	Departure Time	Duration
	<i>Actual arrival: 10/15/2008 05:36 PM</i>		
Shakopee Shop	10/16/2008 12:00 AM	10/16/2008 07:00 AM	07 h 00 m 23 s
Shakopee Plant	10/16/2008 08:55 AM	10/16/2008 08:59 AM	00 h 04 m 38 s
Shakopee Plant	10/16/2008 09:00 AM	10/16/2008 09:32 AM	00 h 32 m 13 s
Shakopee Plant	10/16/2008 12:42 PM	10/16/2008 12:49 PM	00 h 07 m 09 s
Shakopee Plant	10/16/2008 12:49 PM	10/16/2008 01:46 PM	00 h 56 m 40 s
Shakopee Plant	10/16/2008 03:32 PM	10/16/2008 04:19 PM	00 h 46 m 58 s

Geofence Visit - Summary Report

This report is a summarized version of the Geofence Visit Detail Report (see "Geofence Visit - Detail Report" on page 72).

For step-by-step instructions on running reports and related actions, see Common Report Controls (on page 60).

Configuration Options:

- Date and Time (on page 63).
- Groups and Assets (on page 64).

Page 1 of 1

Geofence Visit - Summary

10/16/2008 12:00 AM - 10/16/2008 11:00 PM (23 h 00 m 00 s)

Report Definition	Summary of Geofence visits for selected assets.				
Asset	Geofence	Visits	Total Duration	Max Visit	Average Visit
259	Shakopee Plant	5	02 h 27 m 38 s	00 h 56 m 40 s	00 h 29 m 31 s
259	Shakopee Shop	1	07 h 00 m 23 s	07 h 00 m 23 s	07 h 00 m 23 s

Hours Of Service Report

This optional online report is available to United States customers only.

It is designed to send asset information from ibright® Enterprise to the ISE eFleetSuite database for compliance reporting - in this instance, driver hours of service.

For more information, please [contact us](#) (see "Contact Information" on page 8).

For step-by-step instructions on running reports and related actions, see [Common Report Controls](#) (on page 60).

Ignition Report

This report shows time and location information between turning the ignition ON and turning it OFF for selected assets.

In conjunction with the Engine Running report, this report would be a useful indication ignition malfunctions.

For step-by-step instructions on running reports and related actions, see Common Report Controls (on page 60).

Configuration Options:

- Date and Time (on page 63).
- Groups and Assets (on page 64).
- Location Style (on page 65).

Ignition						Page 1 of 1
Report Definition		Time and location information between turning the ignition on and turning it off for selected assets.				10/16/2008 12:00 AM - 10/16/2008 11:00 PM (23 h 00 m 00 s)
Asset		259				
The results below show data for the selected duration range only. Where the selected range differs from the actual duration range for the activity, actual duration ranges are indicated either above or below the report results.						
Date	Time	Duration	Start Location	End Location		
10/16/2008	08:15 AM	00 h 05 m 34 s	5082 Cty Hwy 101, Shakopee CITY, Minnesota 55379	5071 Cty Hwy 101, Shakopee CITY, Minnesota 55379		
10/16/2008	08:28 AM	02 h 29 m 20 s	5071 Cty Hwy 101, Shakopee CITY, Minnesota 55379	1231 70th St, Shakopee CITY, Minnesota 55379		
10/16/2008	08:58 AM	00 h 01 m 30 s	1231 70th St, Shakopee CITY, Minnesota 55379	7060 S Cretex Ave, Shakopee CITY, Minnesota 55379		
10/16/2008	09:16 AM	00 h 01 m 02 s	7060 S Cretex Ave, Shakopee CITY, Minnesota 55379	1230 70th St, Shakopee CITY, Minnesota 55379		
10/16/2008	09:31 AM	00 h 53 m 00 s	1230 70th St, Shakopee CITY, Minnesota 55379	455 Whipple Way, Faribault CITY, Minnesota 55021		
10/16/2008	10:37 AM	02 h 04 m 59 s	455 Whipple Way, Faribault CITY, Minnesota 55021	1231 70th St, Shakopee CITY, Minnesota 55379		
10/16/2008	12:48 PM	00 h 01 m 29 s	1231 70th St, Shakopee CITY, Minnesota 55379	7060 S Cretex Ave, Shakopee CITY, Minnesota 55379		
10/16/2008	01:32 PM	00 h 01 m 06 s	7060 S Cretex Ave, Shakopee CITY, Minnesota 55379	7019 S Cretex Ave, Shakopee CITY, Minnesota 55379		
10/16/2008	01:45 PM	00 h 35 m 31 s	7018 S Cretex Ave, Shakopee CITY, Minnesota 55379	1810 Fox St, Shorewood CITY, Minnesota 55391		
10/16/2008	02:23 PM	01 h 08 m 55 s	1810 Fox St, Shorewood CITY, Minnesota 55391	1231 70th St, Shakopee CITY, Minnesota 55379		

Position Report

This report shows the latest position information received for selected assets in ibright® Enterprise.

For step-by-step instructions on running reports and related actions, see [Common Report Controls](#) (on page 60).

Configuration Options:

- [Date and Time](#) (on page 63).
- [Groups and Assets](#) (on page 64).
- [Location Style](#) (on page 65).

Position						Page 1 of 1
Generated at 10/19/2008 09:44 PM						
Report Definition		Last position information received for selected assets.				
Asset	Date	Time	Odometer (mi)	Status	Location	
259	10/17/2008	04:34 PM	290994.0	Stationary	5085 Cty Hwy 101, Shakopee CITY, Minnesota 55379	

PTO Unload by Asset - Detail Report

This report shows unloading activity and estimates unloaded weight using Power Take-Off (PTO) rates, grouped by asset.

For step-by-step instructions on running reports and related actions, see Common Report Controls (on page 60).

Configuration Options:

- Date and Time (on page 63).
- Groups and Assets (on page 64).
- Rate (see "Rate (PTO Reports)" on page 65).

PTO Unload by Asset - Detail					Page 1 of 1									
10/16/2008 12:00 AM - 10/17/2008 12:00 AM (1 d 00 h 00 m)														
Report Definition		PTO unloading activity and estimated unloaded weight for selected assets, grouped by asset.												
Summary		<table border="1"> <tr> <td>Total PTO Duration:</td> <td>02 h 37 m 03 s</td> <td colspan="2"> <table border="1"> <tr> <th>Unload Rate</th> <td>1500 lbs/min</td> </tr> </table> </td> </tr> <tr> <td>Total Unloaded:</td> <td>117 tons 1575 lbs</td> <td colspan="2"></td> </tr> </table>			Total PTO Duration:	02 h 37 m 03 s	<table border="1"> <tr> <th>Unload Rate</th> <td>1500 lbs/min</td> </tr> </table>		Unload Rate	1500 lbs/min	Total Unloaded:	117 tons 1575 lbs		
Total PTO Duration:	02 h 37 m 03 s	<table border="1"> <tr> <th>Unload Rate</th> <td>1500 lbs/min</td> </tr> </table>		Unload Rate	1500 lbs/min									
Unload Rate	1500 lbs/min													
Total Unloaded:	117 tons 1575 lbs													
Asset		Duration												
The results below show data for the selected duration range only. Where the selected range differs from the actual duration range for the activity, actual duration ranges are indicated either above or below the report results.														
Farm	Silo	PTO On Date	PTO duration	Total unloaded										
10015 State Highway 97, Texas 78614	29.42219, -97.59552	10/16/2008 05:19 AM	00 h 13 m 26 s	10 tons 150 lbs										
10015 State Highway 97, Texas 78614	29.42219, -97.59552	10/16/2008 05:33 AM	00 h 13 m 29 s	10 tons 225 lbs										
2046 County Road 118, Texas 78159	29.34907, -97.54650	10/16/2008 08:44 AM	00 h 03 m 09 s	2 tons 725 lbs										
2046 County Road 118, Texas 78159	29.34912, -97.54653	10/16/2008 08:47 AM	00 h 09 m 47 s	7 tons 675 lbs										
2048 County Road 118, Texas 78159	29.34911, -97.54674	10/16/2008 08:58 AM	00 h 13 m 35 s	10 tons 375 lbs										
905 County Road 271, Texas 77975	29.54046, -97.12904	10/16/2008 08:22 AM	00 h 01 m 00 s	1500 lbs										
905 County Road 271, Texas 77975	29.54046, -97.12904	10/16/2008 08:23 AM	00 h 12 m 14 s	9 tons 350 lbs										
896 County Road 271, Texas 77975	29.54046, -97.12922	10/16/2008 08:38 AM	00 h 11 m 41 s	8 tons 1525 lbs										
County Road 209, Texas	29.28793, -97.57783	10/16/2008 10:14 AM	00 h 08 m 24 s	6 tons 600 lbs										
County Road 209, Texas	29.28854, -97.57796	10/16/2008 10:23 AM	00 h 18 m 11 s	13 tons 1275 lbs										
15516 Farm-to-Market Road 86, Texas 78616	29.87348, -97.51070	10/16/2008 12:44 PM	00 h 06 m 51 s	5 tons 275 lbs										
15507 Farm-to-Market Road 86, Texas 78616	29.87227, -97.50891	10/16/2008 12:52 PM	00 h 07 m 20 s	5 tons 1000 lbs										
15503 Farm-to-Market Road 86, Texas 78616	29.87202, -97.50889	10/16/2008 01:01 PM	00 h 06 m 46 s	5 tons 150 lbs										
15513 Farm-to-Market Road 86, Texas 78616	29.87339, -97.51093	10/16/2008 01:09 PM	00 h 06 m 29 s	4 tons 1725 lbs										
Putman Branch, Texas	29.33305, -97.52652	10/16/2008 02:58 PM	00 h 11 m 50 s	8 tons 1750 lbs										
Putman Branch, Texas	29.33312, -97.52688	10/16/2008 03:10 PM	00 h 12 m 51 s	9 tons 1275 lbs										
		Summary For Duration	02 h 37 m 03 s	117 tons 1575 lbs										

PTO Unload by Asset - Summary Report

This report is a summarized view of the PTO Asset Detail Report (see "PTO Unload by Asset - Detail Report" on page 77).

For step-by-step instructions on running reports and related actions, see Common Report Controls (on page 60).

Configuration Options:

- Date and Time (on page 63).
- Groups and Assets (on page 64).

- Rate (see "Rate (PTO Reports)" on page 65).

PTO Unload by Asset - Summary		10/16/2008 12:00 AM - 10/17/2008 12:00 AM (1 d 00 h 00 m)	
Report Definition:		Summary of PTO unloading activity and estimated unloaded weight for selected assets, grouped by asset.	
Summary		Unload Rate	
Total PTO Duration:	02 h 38 m 23 s	1500 lbs/min	
Total Unloaded:	118 tons 1575 lbs		
Asset	PTO Duration	Total unloaded	Number of PTO activities
Duratac	02 h 38 m 23 s	118 tons 1575 lbs	17

PTO Unload by Location - Detail Report

This report shows unloading activity and estimates unloaded weight using Power Take-Off (PTO) rates, grouped by location.

For step-by-step instructions on running reports and related actions, see Common Report Controls (on page 60).

Configuration Options:

- Date and Time (on page 63).
- Groups and Assets (on page 64).
- Rate (see "Rate (PTO Reports)" on page 65).

PTO Unload by Location - Detail					Page 1 of 11
10/16/2008 12:00 AM - 10/17/2008 12:00 AM (1 d 00 h 00 m)					
Report Definition		PTO unloading activity and estimated unloaded weight for selected assets, grouped by location.			
Summary				Unload Rate	
Total PTO Duration:	02 h 37 m 03 s			1500 lbs/min	
Total Unloaded:	117 tons 1575 lbs				
Location		10015 State Highway 97, Texas 78614			
The results below show data for the selected duration range only. Where the selected range differs from the actual duration range for the activity, actual duration ranges are indicated either above or below the report results.					
Asset	Silo	PTO On Date	PTO duration	Total unloaded	
Duratac	29.42219, -97.59552	10/16/2008 05:19 AM	00 h 13 m 26 s	10 tons 150 lbs	
Duratac	29.42219, -97.59552	10/16/2008 05:33 AM	00 h 13 m 29 s	10 tons 225 lbs	
Summary For 10015 State Highway 97, Texas 78614:				00 h 26 m 55 s	20 tons 375 lbs

PTO Unload by Location - Summary Report

This report is a summarized version of the PTO Location Detail Report (see "PTO Unload by Location - Detail Report" on page 79).

For step-by-step instructions on running reports and related actions, see Common Report Controls (on page 60).

Configuration Options:

- Date and Time (on page 63).
- Groups and Assets (on page 64).
- Rate (see "Rate (PTO Reports)" on page 65).

PTO Unload by Location - Summary

10/16/2008 12:00 AM - 10/17/2008 12:00 AM (1 d 00 h 00 m)

Report Definition

Summary of PTO unloading activity and estimated unloaded weight for selected assets, grouped by location.

Summary

Total PTO Duration:	02 h 38 m 23 s
Total Unloaded:	118 tons 1575 lbs

Unload Rate

1500 lbs/min

Location	PTO Duration	Total unloaded	Number of PTO activities
10015 State Highway 97, Texas 78814	00 h 26 m 55 s	20 tons 375 lbs	2
15503 Farm-to-Market Road 88, Texas 78818	00 h 08 m 48 s	5 tons 150 lbs	1
15507 Farm-to-Market Road 88, Texas 78818	00 h 07 m 20 s	5 tons 1000 lbs	1
15513 Farm-to-Market Road 88, Texas 78818	00 h 08 m 29 s	4 tons 1725 lbs	1
15516 Farm-to-Market Road 88, Texas 78818	00 h 08 m 51 s	5 tons 275 lbs	1
2046 County Road 118, Texas 78159	00 h 12 m 58 s	9 tons 1400 lbs	2
2048 County Road 118, Texas 78159	00 h 13 m 35 s	10 tons 375 lbs	1
896 County Road 271, Texas 77975	00 h 11 m 41 s	8 tons 1525 lbs	1
905 County Road 271, Texas 77975	00 h 13 m 14 s	9 tons 1850 lbs	2
County Road 209, Texas	00 h 26 m 35 s	19 tons 1875 lbs	2
N Roosevelt Ave, Nixon CITY, Texas	00 h 01 m 20 s	1 tons	1
Putman Branch, Texas	00 h 24 m 41 s	18 tons 1025 lbs	2

Stop - Detail Report

This report shows stop information for selected assets.

Use this report to gain an overview of how long an asset has been stationary and for trip times between stops.

For step-by-step instructions on running reports and related actions, see Common Report Controls (on page 60).

Configuration Options:

- Date and Time (on page 63).
- Groups and Assets (on page 64).
- Location Style (on page 65).

Report Definition		Stop information for selected assets.																										
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <table border="1"> <thead> <tr> <th colspan="2">Summary</th> </tr> </thead> <tbody> <tr> <td>Asset:</td> <td>259</td> </tr> <tr> <td>Total travel time:</td> <td>00 h 01 m 00 s</td> </tr> <tr> <td>Total stop time:</td> <td>06 h 59 m 00 s</td> </tr> <tr> <td>Percentage of period stopped:</td> <td>100%</td> </tr> <tr> <td>Total Distance (mi)</td> <td>21.9</td> </tr> <tr> <td>Number of stops:</td> <td>3</td> </tr> <tr> <td>Average stop time:</td> <td>02 h 19 m 40 s</td> </tr> </tbody> </table> </div> <div style="width: 45%;"> <table border="1"> <thead> <tr> <th colspan="2">Legend</th> </tr> </thead> <tbody> <tr> <td style="background-color: #90EE90;"></td> <td>Stopped < 5 minutes in duration</td> </tr> <tr> <td style="background-color: #FFFF00;"></td> <td>Stopped > 5 minutes and less than 1 hour in duration (2 stop periods)</td> </tr> <tr> <td style="background-color: #FF0000;"></td> <td>Stopped > 1 hour in duration (1 stop period)</td> </tr> </tbody> </table> </div> </div>					Summary		Asset:	259	Total travel time:	00 h 01 m 00 s	Total stop time:	06 h 59 m 00 s	Percentage of period stopped:	100%	Total Distance (mi)	21.9	Number of stops:	3	Average stop time:	02 h 19 m 40 s	Legend			Stopped < 5 minutes in duration		Stopped > 5 minutes and less than 1 hour in duration (2 stop periods)		Stopped > 1 hour in duration (1 stop period)
Summary																												
Asset:	259																											
Total travel time:	00 h 01 m 00 s																											
Total stop time:	06 h 59 m 00 s																											
Percentage of period stopped:	100%																											
Total Distance (mi)	21.9																											
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<p>The results below show data for the selected duration range only. Where the selected range differs from the actual duration range for the activity, actual duration ranges are indicated either above or below the report results.</p>																												
Date	Time	Duration	Distance (mi)	Location																								
<i>Actual start date/time: 10/15/2008 05:37 PM</i>																												
10/16/2008	12:00 AM	05 h 20 m 32 s	0.0	5082 Cty Hwy 101, Shakopee CITY, Minnesota 55379																								
Travel Time: 00 h 00 m 30 s Travel Distance (mi): 0.0																												
10/16/2008	05:21 AM	00 h 05 m 24 s	0.0	5071 Cty Hwy 101, Shakopee CITY, Minnesota 55379																								
Travel Time: 00 h 00 m 14 s Travel Distance (mi): 0.0																												
10/16/2008	05:26 AM	00 h 33 m 04 s	0.0	5075 Cty Hwy 101, Shakopee CITY, Minnesota 55379																								
Travel Time: 00 h 00 m 16 s Travel Distance (mi): 0.0																												
<i>Actual end date/time: 10/16/2008 07:42 AM</i>																												

Stop - Summary Report

This report is a summarized version of the Stop - Detail Report (on page 81).

For step-by-step instructions on running reports and related actions, see Common Report Controls (on page 60).

Configuration Options:

- Date and Time (on page 63).
- Groups and Assets (on page 64).
- Location Style (on page 65).

Page 1 of 1					
Stop - Summary		10/16/2008 12:00 AM - 10/16/2008 07:00 AM (07 h 00 m 00 s)			
Report Definition		Summary of stop information for selected assets.			
Asset	Total Time Stopped	Number of Stop Periods	Max Stop Period	Average Stop Period	% of Period Stopped
258	08 h 59 m 00 s	3	08 h 20 m 32 s	02 h 19 m 40 s	100%

Utilization Reports

In This Section

Engine Utilization Report	84
Mileage Report	86

Engine Utilization Report

This report is a summary of operating activity for selected assets.

Use this report to compare the following information for selected assets:

- Operating Time.
- Idling Time.
- Total Engine Time.
- Asset Utilization %.
- Idling %.
- Daily Asset Utilization %.

The report description includes a guide to how these values are calculated.

- Engine Time is the total time an asset was running during the period.
- Operating Time is the amount of time the engine was running and not idling.
- Asset Utilization % = (Operating Time)/(Total Engine Time).
- Idling Time % = (Idling Time)/(Total Engine Time).
- Daily Asset Utilization % = (Average Operating Time Per Day)/(Total time in day (i.e. 24 hours)).

For step-by-step instructions on running reports and related actions, see [Common Report Controls](#) (on page 60).

Configuration Options:

- [Date and Time](#) (on page 63).
- [Groups and Assets](#) (on page 64).
- [Hide Chart](#) (on page 65).

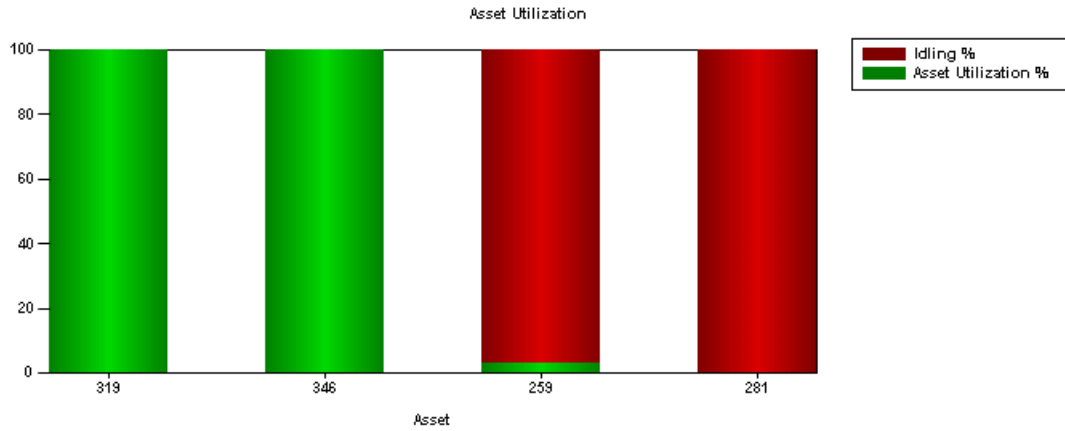
Engine Utilization

10/16/2008 12:00 AM - 10/16/2008 07:00 AM (07 h 00 m 00 s)

Report Definition

Summary of operating activity for selected assets.

- Engine Time is the total time an asset was running during the period.
- Operating Time is the amount of time the engine was running and not idling.
- Asset Utilization % = (Operating Time)/(Total Engine Time).
- Idling Time % = (Idling Time)/(Total Engine Time).
- Daily Asset Utilization % = (Average Operating Time Per Day)/(Total time in day (i.e. 24 hours)).



Asset	Operating Time	Idling Time	Total Engine Time	Asset Utilization %	Idling %	Daily Asset Utilization %
319	00 h 55 m 03 s	00 h 00 m 00 s	00 h 55 m 03 s	100%	0%	13%
346	00 h 47 m 03 s	00 h 00 m 00 s	00 h 47 m 03 s	100%	0%	11%
259	00 h 01 m 07 s	00 h 38 m 06 s	00 h 39 m 13 s	3%	97%	0%
281	00 h 00 m 00 s	00 h 00 m 01 s	00 h 00 m 01 s	0%	100%	0%
Summary	01 h 43 m 13 s	00 h 38 m 07 s	02 h 21 m 20 s	51%	49%	6%

Mileage Report

This report describes the total time and distance travelled for selected assets, and a percentage proportion if multiple assets are selected.

The description at the top of the report explains the calculation:

- Mileage % of Selected Assets = (Distance travelled for asset)/(Total distance travelled for all selected assets).

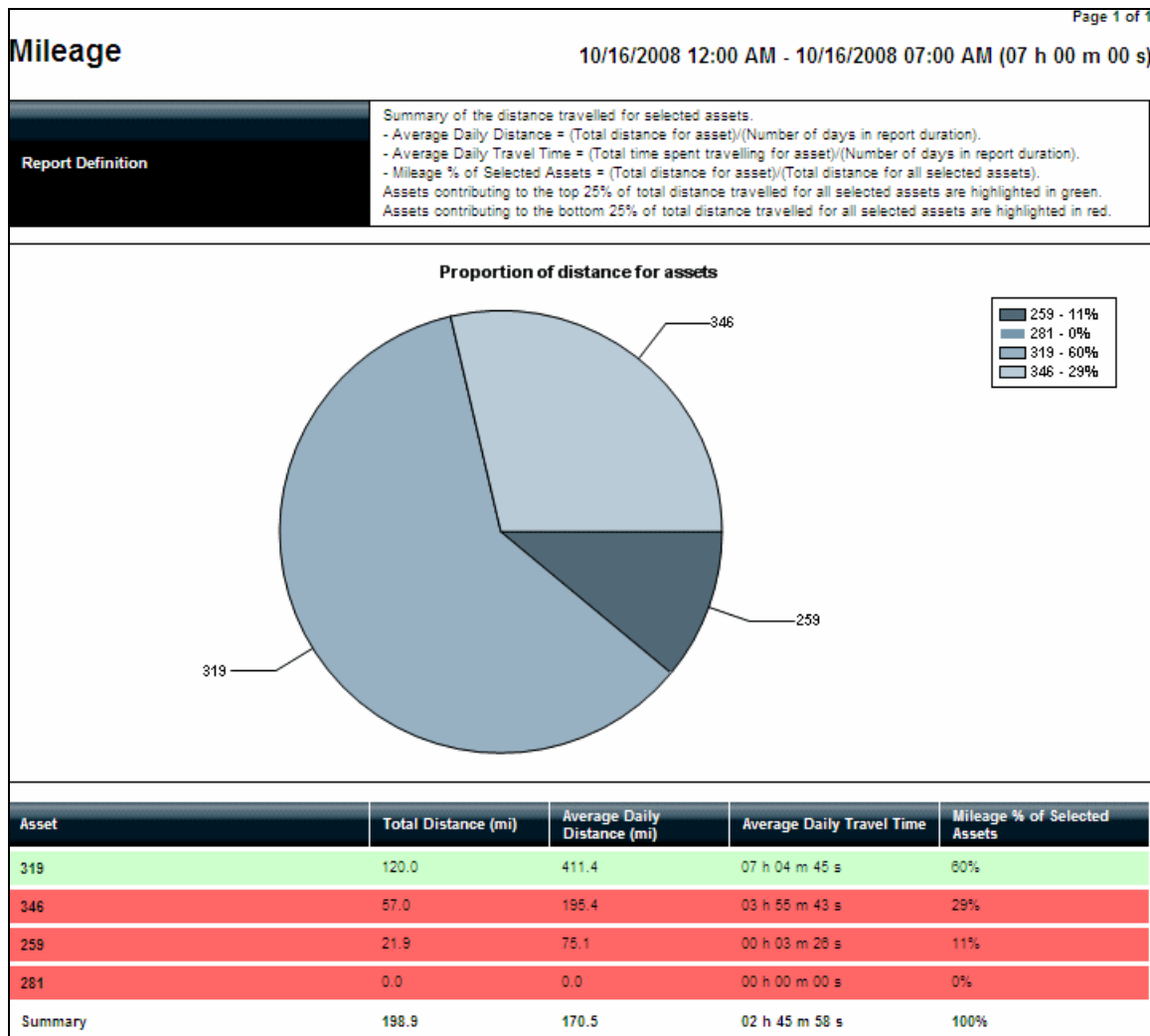
Assets contributing to the top 25% of total distance travelled for all selected assets are highlighted in green.

Assets contributing to the bottom 25% of total distance travelled for all selected assets are highlighted in red.

For step-by-step instructions on running reports and related actions, see [Common Report Controls](#) (on page 60).

Configuration Options:

- Date and Time (on page 63).
- Groups and Assets (on page 64).
- Hide Chart (on page 65).



Fuel Management Reports

In This Section

Fuel Tax (IFTA) Report	88
Fuel Usage Report	89

Fuel Tax (IFTA) Report

This optional online report is available to United States customers only.

IFTA (International Fuel Tax Agreement) is an agreement between the lower 48 states of the United States and the Canadian provinces to simplify the reporting of fuel use by freight carriers that operate in multiple jurisdictions.

ibright® Enterprise is able to send the data for selected assets to IFTA report provider Promiles in the prescribed reporting format for into IFTA Tax purposes. For more information, see the Promiles [website](http://www.promiles.com) (<http://www.promiles.com>).

For step-by-step instructions on running reports and related actions, see [Common Report Controls](#) (on page 60).

Fuel Usage Report

This report shows total consumption of fuel for the selected assets while the engine is running, including idling and Power TakeOff (PTO) information.

Use this report to analyze fuel usage in a more intelligent way than just reading miles travelled and idle time, and arrive at more meaningful estimates of service intervals.

It will also estimate carbon emissions (Carbon footprint) in tonnes.

For step-by-step instructions on running reports and related actions, see [Common Report Controls](#) (on page 60).

You can also click the **week bar or row**, or the **asset number or name** (it will become highlighted in gray) to drill down to further levels of detail, and view statistics in table format.

Use the **Print** button to print the results at any time.

Configuration Options:

- [Date and Time](#) (on page 63).
- [Groups and Assets](#) (on page 64).
- [Fuel Price](#) (on page 65).

Fuel Usage

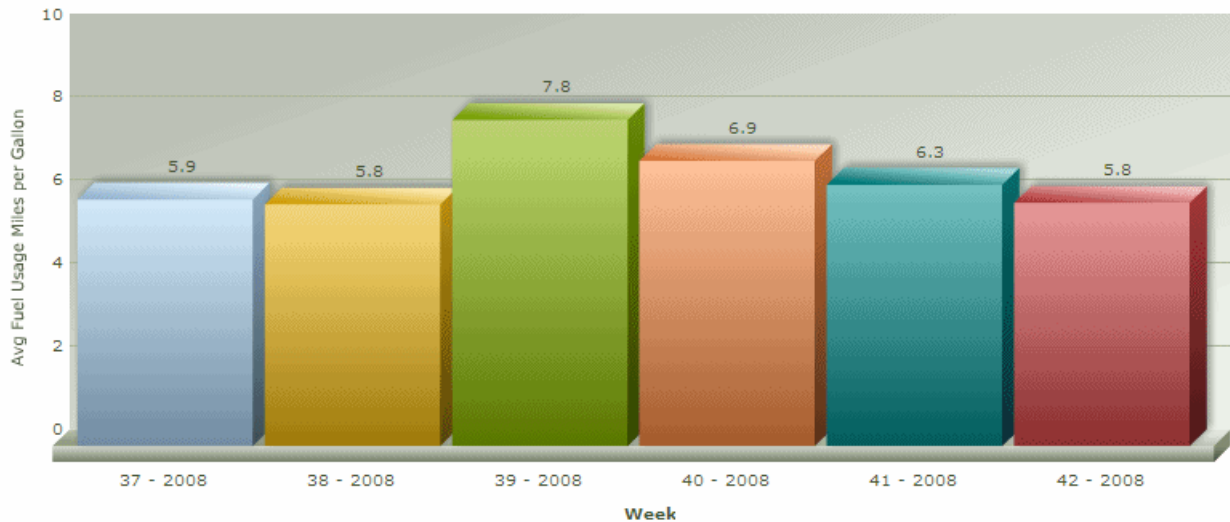
Print

Report Definition:

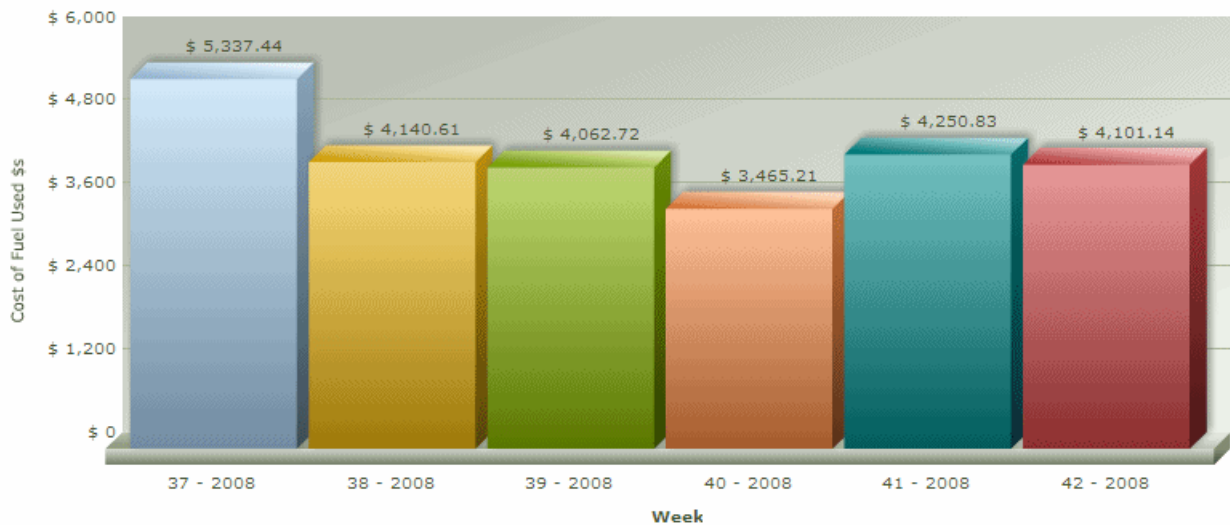
Details average fuel usage and cost of fuel used, with a weekly break down of fuel statistics and CO2 emissions. Drill down to further levels of detail by clicking the week bar or row (week level details, sorted by asset), or the asset row (asset level details, sorted by date).

Fuel Usage Report from 9/7/2008 12:00 AM to 10/19/2008 12:00 AM Group Selected: Shakopee. Assets Selected: 259, 281, 319, 346.

Avg Fuel Usage



Cost of Fuel Used



Week	Year	Total Distance Miles	Total Fuel Gallons	Avg Fuel Miles per Gallon	Fuel Cost per Gallon	Cost of Fuel Used \$s	Cost Distance \$s per Mile	Fuel Week on Week %	CO2 Emitted Tonnes
37	2008	6882.5	1160.3	5.9	4.60	5337.44	0.78	-	11.72
38	2008	5231.7	900.1	5.8	4.60	4140.61	0.79	-22.4	9.09
39	2008	6929.2	883.2	7.8	4.60	4062.72	0.59	-1.9	8.92
40	2008	5166.7	753.3	6.9	4.60	3465.21	0.67	-14.7	7.61
41	2008	5810.8	924.1	6.3	4.60	4250.83	0.73	22.7	9.33
42	2008	5215.1	891.6	5.8	4.60	4101.14	0.79	-3.5	9.00
Total Distance Miles		Total Fuel Gallons		Total Cost of Fuel Used \$			Total CO2 Tonnes		
35235.95		5512.59		25357.95			55.67		

Fuel Usage Weekly By Asset

Print

Report Definition:							Fuel Usage
Fleet Fuel Usage Report by Asset from 9/7/2008 12:00 AM to 9/14/2008 12:00 AM							
Asset	Total Distance Miles	Total Fuel Gallons	Avg Fuel Miles per Gallon	Fuel Cost per Gallon	Cost of Fuel Used \$s	Cost Distance \$s per Mile	CO2 Emitted Tonnes
259	1986.1	393.0	5.1	4.60	1807.83	0.91	3.97
319	2259.9	337.7	6.7	4.60	1553.49	0.69	3.41
281	1905.8	292.8	6.5	4.60	1346.66	0.71	2.96
346	730.6	136.8	5.3	4.60	629.46	0.86	1.38
Total Distance Miles		Total Fuel Gallons		Fuel Used Cost \$		Total CO2 Tonnes	
6882.45		1160.31		5337.44		11.72	

Fuel Usage Daily Detail For Asset 259

Print

Report Definition:							Fuel Usage Daily Detail
Daily Fuel Usage Detail Report from 9/7/2008 12:00 AM to 9/14/2008 12:00 AM							
Date	Total Distance Miles	Total Fuel Gallons	Avg Fuel Miles per Gallon	Fuel Cost per Gallon	Cost of Fuel Used \$s	Cost Distance \$s per Mile	CO2 Emitted Tonnes
09/07/2008	-	-	-	4.60	-	-	-
09/08/2008	290.6	53.9	5.4	4.60	248.14	0.85	0.54
09/09/2008	398.0	78.2	5.1	4.60	359.69	0.90	0.79
09/10/2008	494.4	95.8	5.2	4.60	440.62	0.89	0.97
09/11/2008	481.6	106.9	4.5	4.60	491.78	1.02	1.08
09/12/2008	321.4	58.2	5.5	4.60	267.58	0.83	0.59
09/13/2008	-	-	-	4.60	-	-	-
Total Distance Miles		Total Fuel Gallons		Fuel Used Cost \$		Total CO2 Tonnes	
1986.10		393.00		1807.81		3.97	

Driver Behavior Reports

In This Section

Idling - Detail Report	93
Idling - Summary Report	93

Idling - Detail Report

This report shows details of idling activity for selected assets.

Use this report to ascertain whether assets are spending large amounts of time in heavy traffic, or to enforce better fuel saving practices on the part of drivers

For step-by-step instructions on running reports and related actions, see Common Report Controls (on page 60).

Configuration Options:

- Date and Time (on page 63).
- Location Style (on page 65).
- Time Threshold (on page 65).

Report Definition		Idling activity for selected assets.	
Displaying Idling Periods longer than 00 h 00 m 00 s			
Summary		Legend	
Asset:	259	 Idling < 5 minutes in duration (6 idle periods)	
Total idling time:	02 h 24 m 25 s	 Idling > 5 minutes and less than 1 hour in duration (9 idle periods)	
Percentage of period idling:	10%	 Idling > 1 hour in duration	
Number of idling periods:	15		
Average idling period:	00 h 09 m 38 s		
The results below show data for the selected duration range only. Where the selected range differs from the actual duration range for the activity, actual duration ranges are indicated either above or below the report results.			
Date	Time	Duration	Location
10/20/2008	02:54 AM	00 h 02 m 58 s	5067 Cty Hwy 101, Shakopee CITY, Minnesota 55379
10/20/2008	02:58 AM	00 h 13 m 01 s	5088 Cty Hwy 101, Shakopee CITY, Minnesota 55379
10/20/2008	05:30 AM	00 h 13 m 33 s	I-35, Minnesota
10/20/2008	08:15 AM	00 h 20 m 04 s	Gunflint Trl, Grand Marais CITY, Minnesota
10/20/2008	08:38 AM	00 h 07 m 45 s	Gunflint Trl, Grand Marais CITY, Minnesota
10/20/2008	08:50 AM	00 h 03 m 09 s	Golf Course Rd, Minnesota
10/20/2008	08:53 AM	00 h 04 m 29 s	Golf Course Rd, Minnesota

Idling - Summary Report

This report summarizes the Idling - Detail Report (on page 93).

For step-by-step instructions on running reports and related actions, see Common Report Controls (on page 60).

Configuration Options:

- Date and Time (on page 63).
- Location Style (on page 65).
- Time Threshold (on page 65).

Idling - Summary

10/20/2008 12:00 AM - 10/21/2008 12:00 AM (1 d 00 h 00 m)

Report Definition					
Summary of idling activity for selected assets.					
Displaying Idling Periods longer than 00 h 00 m 00 s					
Asset	Total Time Idling	Number of Idling Periods	Max Idling Period	Average Idling Period	Percentage of Period Idling
259	02 h 24 m 25 s	15	00 h 28 m 50 s	00 h 09 m 38 s	10%

Driver Behavior (Dashboard) Reports

In This Section

Fleet Safety Scorecard Report	96
RPM Report	99
Speed Report	101

Fleet Safety Scorecard Report

This report generates a fleet safety scorecard based on driver behavior characteristics, including:

- Speeding.
- Hard Cornering.
- Swerving.
- Hard Braking.
- Fast Acceleration.

For step-by-step instructions on running reports and related actions, see [Common Report Controls](#) (on page 60).

Configuration Options:

- [Date and Time](#) (on page 63).
- [Groups and Assets](#) (on page 64).

The pie chart shows the overall fleet safety scores for the selected assets in the legends shown around the edge of the chart.

The legend shown for the pie sections on mouseover is simply the percentage value of that section among the other sections.

Click the legend text or the pie section on the pie chart to split the series from the main chart graphic and highlight it.

You can also click the **asset name or number** or the **date** (it will become highlighted in gray) to drill down to further levels of detail, and view the statistics in table format.

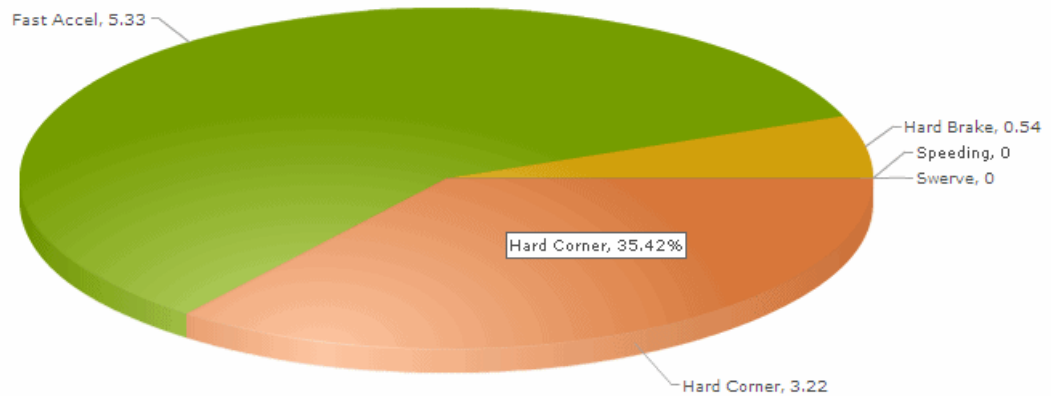
Use the **Print** button to print the results at any time.

Fleet Safety Score Card

[Print](#)

Report Definition: Fleet safety scorecard based on driver behavior, including speeding, hard cornering, swerving, hard braking and fast acceleration events. Drill down to further levels of detail by clicking the asset name/number (asset level details, sorted by date) and the date (date level details, sorted by event).
 Fleet Safety Report from 10/20/2008 12:00 AM to 10/21/2008 12:00 AM

Asset	Speeding Score	Hard Brake Score	Fast Accel Score	Hard Corner Score	Swerve Score	Total Score
259	-	-	4.30	0.78	-	5.08
281	-	-	0.53	0.88	-	1.41
319	-	0.54	-	0.54	-	1.08
278	-	-	-	0.93	-	0.93
310	-	-	0.36	-	-	0.36
346	-	-	0.15	-	-	0.15
190	-	-	-	0.09	-	0.09
345	-	-	-	-	-	-
280	-	-	-	-	-	-



Safety Score Card For Asset 259

[Print](#)

Report Definition: Safety Score Card
 Fleet Safety Report from 10/20/2008 12:00 AM to 10/21/2008 12:00 AM

Date Occured	Speeding Score	Hard Brake Score	Fast Accel Score	Hard Corner Score	Swerve Score	Total Score
Monday, October 20, 2008	-	-	4.30	0.78	-	5.08

Safety Score Card For Asset 259

Print

Report Definition: Safety Score Card Daily Detail

Fleet Safety Report for Monday, October 20, 2008

Incident	Time	Location	Value
Hard Cornering	3:25:16 AM	United States Highway 169, , St. Louis Park CITY, Minnesota, USA	443
Fast Acceleration	3:27:46 AM	United States Highway 169, , USA,	354
Fast Acceleration	3:35:02 AM	6887 United States Highway 169, , Brooklyn Park CITY, Minnesota, USA	373
Fast Acceleration	3:48:24 AM	I-35, , Arden Hills CITY, Minnesota, USA	386
Fast Acceleration	3:48:27 AM	I-35, , Mounds View CITY, Minnesota, USA	373
Fast Acceleration	3:48:53 AM	I-35, , Arden Hills CITY, Minnesota, USA	527
Fast Acceleration	4:02:10 AM	I-35, , Forest Lake CITY, Minnesota, USA	354
Hard Cornering	4:02:21 AM	I-35, , Forest Lake CITY, Minnesota, USA	417

RPM Report

This report shows a histogram of engine RPM ranges for selected assets, and a separate alerts graphic for events exceeding predefined thresholds.

Note: Alert events are triggered only after the asset's engine RPM has remained above the relevant threshold for a predefined number of seconds.

For step-by-step instructions on running reports and related actions, see [Common Report Controls](#) (on page 60).

Configuration Options:

- [Date and Time](#) (on page 63).
- [Groups and Assets](#) (on page 64).

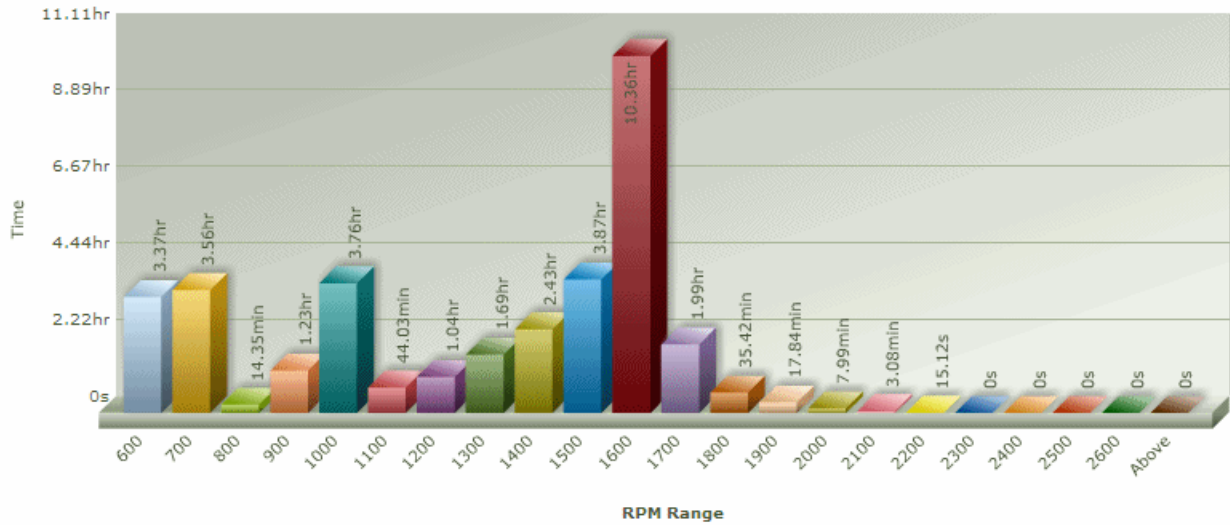
RPM Summary Report For Asset 259

Print

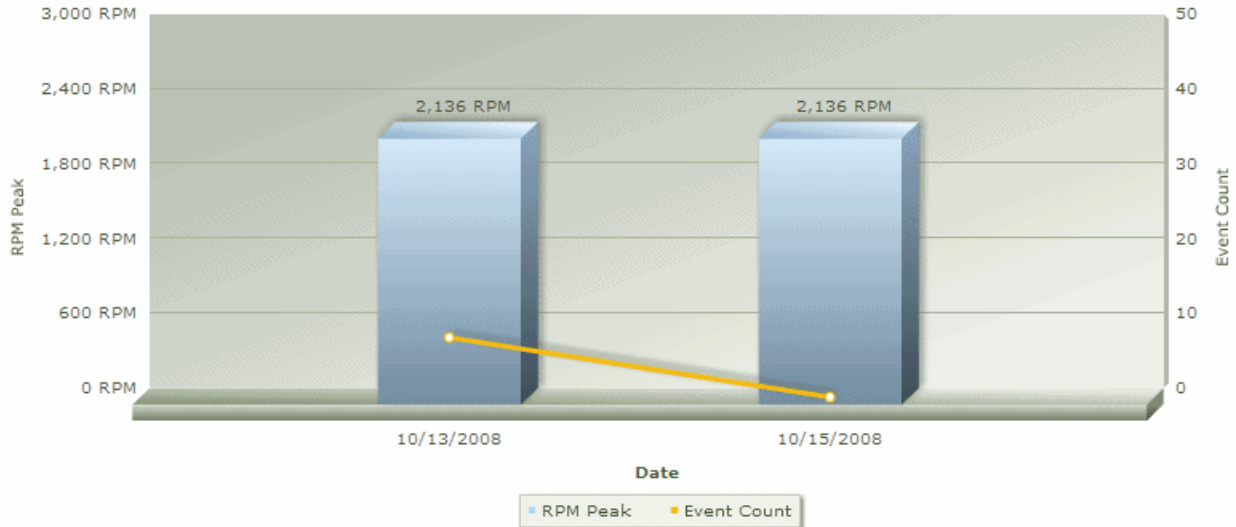
Report Definition: Histogram of engine RPM ranges for selected assets, and a separate alerts graphic for events exceeding predefined thresholds. Alert events are triggered only after the asset's engine RPM has remained above the relevant threshold for a predefined number of seconds.

RPM Report from 10/13/2008 12:00 AM to 10/21/2008 12:00 AM

RPM Histogram



Maximum RPM and Event Occurrences



Date	Location	RPM Peak	Event Duration
10/15/2008 2:31:57 PM	106 United States Highway 10 , Clear Lake CITY, Minnesota, USA	2136	2.20s
10/13/2008 8:01:21 AM	6646 110th St , Glencoe CITY, Minnesota, USA	2136	23.90s
10/13/2008 8:14:06 AM	6647 110th St , Glencoe CITY, Minnesota, USA	2131	4.70s
10/13/2008 8:15:40 AM	6647 110th St , Glencoe CITY, Minnesota, USA	2131	7.90s
10/13/2008 8:16:17 AM	6647 110th St , Glencoe CITY, Minnesota, USA	2126	21.10s
10/13/2008 8:16:36 AM	6647 110th St , Glencoe CITY, Minnesota, USA	2126	15.00s
10/13/2008 8:15:15 AM	6647 110th St , Glencoe CITY, Minnesota, USA	2126	4.80s
10/13/2008 8:20:08 AM	6661 110th St , Glencoe CITY, Minnesota, USA	2121	2.30s
10/13/2008 8:14:50 AM	6647 110th St , Glencoe CITY, Minnesota, USA	2121	7.40s
10/13/2008 8:16:56 AM	6647 110th St , Glencoe CITY, Minnesota, USA	2112	2.40s

Speed Report

This report shows a histogram of speed for selected assets, and a separate alerts graphic for events exceeding predefined thresholds.

Note: Alert events are triggered only after the asset's speed has remained above the relevant threshold for a predefined number of seconds.

For step-by-step instructions on running reports and related actions, see [Common Report Controls](#) (on page 60).

Configuration Options:

- [Date and Time](#) (on page 63).
- [Groups and Assets](#) (on page 64).

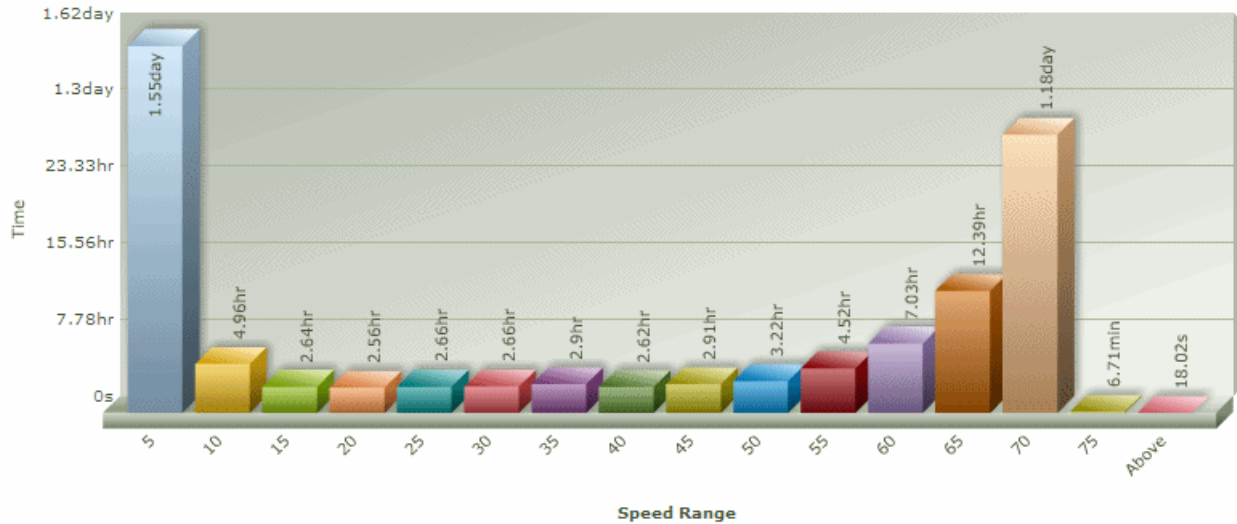
Speed Summary Report For Asset 259

[Print](#)

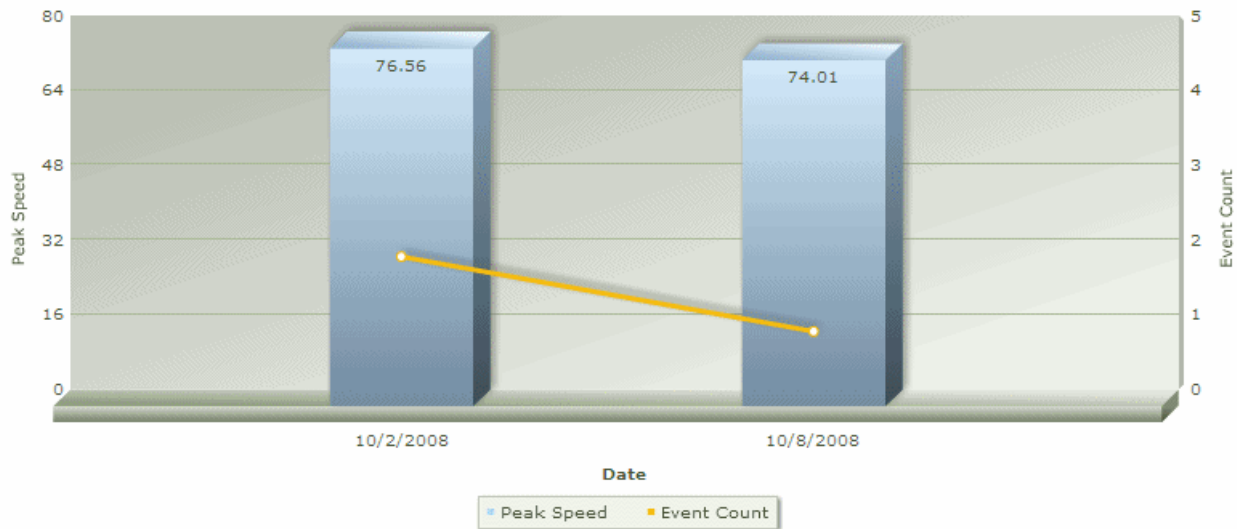
Report Definition: Histogram of speed for selected assets, and a separate alerts graphic for events exceeding predefined thresholds. Alert events are triggered only after the asset's speed has remained above the relevant threshold for a predefined number of seconds.

Speeding Report from 10/2/2008 12:00 AM to 10/21/2008 12:00 AM

Speed Histogram



Maximum Speed and Event Occurrences



When Occurred	Location	Speed Peak	Speed Elapsed	Speed Mean	Peak Throttle Position	Peak Engine Load	Speed Limit	Max Above Limit
10/8/2008 6:34:02 PM	43408 United States Highway 52, , , Minnesota, USA	74.0	12.30s	73.7	3.0	-	73.0	1.0
10/2/2008 6:26:59 PM	16148 Sherwood Trl, , , Minnesota, USA	76.6	24.00s	74.9	3.0	-	73.0	3.5
10/2/2008 5:48:16 PM	34153 United States Highway 52, , , Minnesota, USA	73.5	10.10s	73.1	100.0	-	73.0	0.5

Fixed Asset Reports

In This Section

Compactor Report	104
Stationary Asset Sensor History Report	106

Compactor Report

Note: This optional report is available only to fleets that have specifically configured assets as compactors (see "Compactor Assets" on page 58). Contact us for more information.

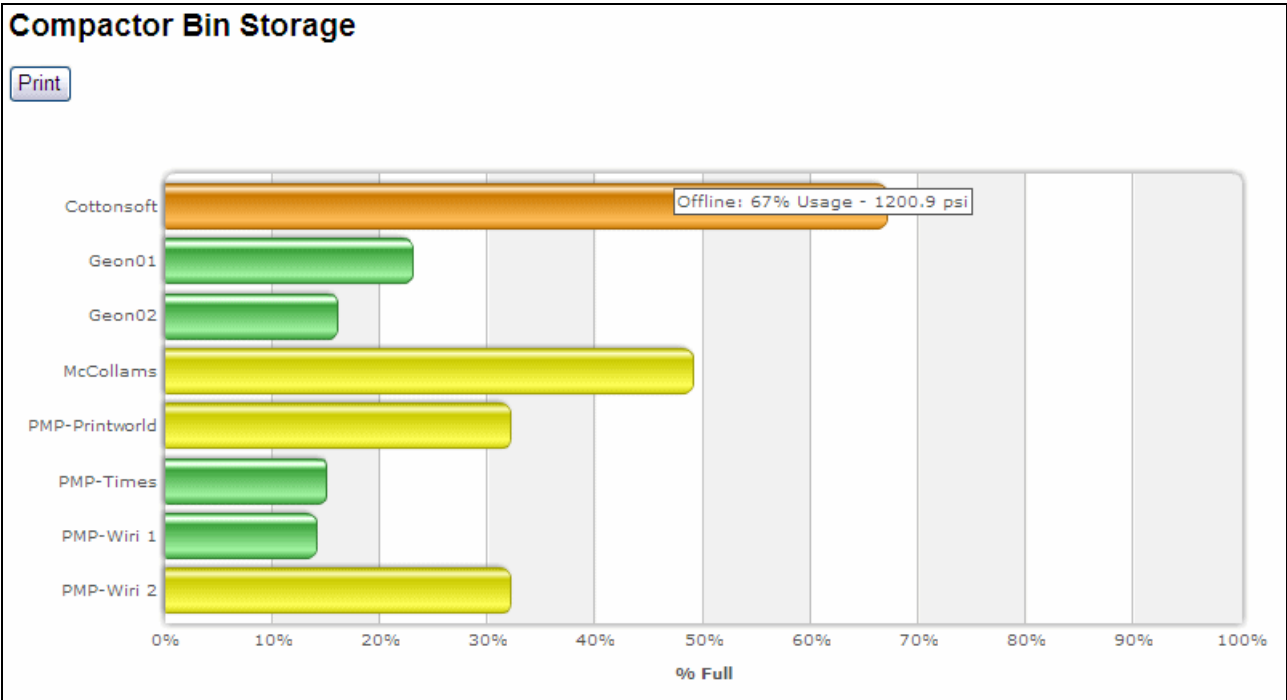
It shows the status of all compactor assets in the fleet.

From the initial list view, you can drill down to a greater level of detail and view a status monitor for the last 24 hours.

For step-by-step instructions on running reports and related actions, see Common Report Controls (on page 60).

List View

The list view gives you an overview of the current capacity of each compactor.



The bar displays are color coded according to pressure level.

Hover your mouse over the bar to see an instant readout of the capacity and pressure level.

Detail View

If you'd like to see a more detailed view for a single compactor, click its colored bar. The report will drill down to show you a more detailed view of the compactor status over the past 24 hours.

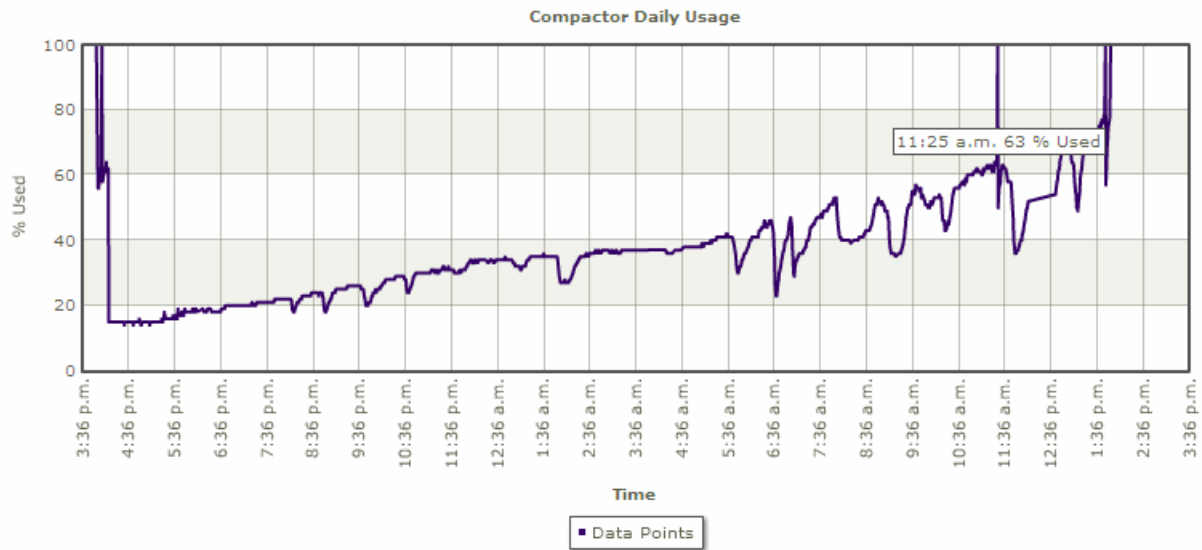
Usage for PMP-Wiri 1

Print

Date Range 22/12/2008 3:36:23 p.m. to 23/12/2008 3:36:23 p.m.

[Previous Day](#)

[Next Day](#)



[Previous Day](#)

[Next Day](#)

Here too, you can hover your mouse over the graph to view a readout of the time and the percentage of use at that point.

Use the **Previous Day** and **Next Day** links at the top and bottom of the page to quickly change the graph date.

Stationary Asset Sensor History Report

This report shows a history of all sensor information for the selected time period from the selected assets. It applies only to fixed assets.

For step-by-step instructions on running reports and related actions, see [Common Report Controls](#) (on page 60).

Configuration Options:

- [Date and Time](#) (on page 63).
- [Groups and Assets](#) (on page 64).

Stationary Asset Sensor History				Page 1 of 1
Report Definition		Sensor history for selected assets.		
Asset		PMP-Times		
Date	Time	Sensor	State	
21-Dec-2008	11:01 PM	Compactor Pressure Sensor	555 PSI	
21-Dec-2008	11:02 PM	Compactor Pressure Sensor	567 PSI	
21-Dec-2008	11:04 PM	Compactor Pressure Sensor	573 PSI	
21-Dec-2008	11:07 PM	Compactor Pressure Sensor	569 PSI	
21-Dec-2008	11:10 PM	Compactor Pressure Sensor	578 PSI	
21-Dec-2008	11:14 PM	Compactor Pressure Sensor	589 PSI	
21-Dec-2008	11:17 PM	Compactor Pressure Sensor	592 PSI	
21-Dec-2008	11:21 PM	Compactor Pressure Sensor	598 PSI	

Off-Road Reports

In This Section

Off-Road Travel - Detail Report	108
Off-Road Travel - Summary Report	108

Off-Road Travel - Detail Report

Note: This report is optional, and for New Zealand customers only. For more information, contact us (see "Contact Information" on page 8).

This report shows details of off-road travel for selected assets.

This information is essential for claiming RUC (Road User Charge) rebates from NZTA (New Zealand Transport Agency).

For step-by-step instructions on running reports and related actions, see Common Report Controls (on page 60).

Configuration Options:

- Date and Time (on page 63).
- Groups and Assets (on page 64).
- Location Style (on page 65).

Off-Road Travel - Detail						Page 1 of 2
Report Definition						Off-road travel for selected assets.
Summary						
Asset:	0014					
Number of off-road trips:	54					
Total off-road distance (km):	24.23					
Average off-road trip distance (km):	0.45					
Date	Time	Duration	Off-Road Distance (km)	Start Location	End Location	
16-Dec-2008	12:04 AM	02 h 39 m 45 s	0.587	111 Pareora Avenue, Kingsdown, New Zealand	111 Pareora Avenue, Kingsdown, New Zealand	
16-Dec-2008	03:03 AM	04 h 38 m 20 s	1.235	48 Sheffield Street, Washdyke, New Zealand	28 Sheffield Street, Washdyke, New Zealand	
16-Dec-2008	07:52 AM	01 h 31 m 28 s	0.158	Charman Street, Timaru Port, Timaru District	203-213 Fraser Street, Timaru Port, Timaru District	
16-Dec-2008	09:43 AM	00 h 00 m 42 s	0.102	Charman Street, Timaru Port, New Zealand	Charman Street, Timaru Port, New Zealand	
16-Dec-2008	11:25 AM	00 h 33 m 50 s	0.088	Charman Street, Timaru Port, New Zealand	203-213 Fraser Street, Timaru Port, New Zealand	
16-Dec-2008	12:19 PM	00 h 00 m 29 s	0.239	Hall Street, Timaru Port, New Zealand	Hall Street, Timaru Port, New Zealand	
16-Dec-2008	12:22 PM	01 h 21 m 48 s	0.036	Charman Street, Timaru Port, New Zealand	203-213 Fraser Street, Timaru Port, New Zealand	
16-Dec-2008	02:04 PM	00 h 00 m 48 s	0.094	Charman Street, Timaru Port, New Zealand	Charman Street, Timaru Port, New Zealand	
16-Dec-2008	03:01 PM	00 h 00 m 30 s	0.181	Hall Street, Timaru Port, New Zealand	Hall Street, Timaru Port, New Zealand	
16-Dec-2008	03:08 PM	01 h 17 m 28 s	0.156	Charman Street, Timaru Port, New Zealand	203-213 Fraser Street, Timaru Port, New Zealand	

Off-Road Travel - Summary Report

Note: This report is optional, and for New Zealand customers only. For more information, contact us (see "Contact Information" on page 8).

This report summarizes the Off-Road Travel - Detail Report (on page 108).

For step-by-step instructions on running reports and related actions, see Common Report Controls (on page 60).

Configuration Options:

- Date and Time (on page 63).
- Groups and Assets (on page 64).

Off-Road Travel - Summary

27-Nov-2008 00:00 - 28-Nov-2008 00:00 (1 d 00 h 00 m)

Report Definition		Summary of off-road travel for selected assets.		
Asset	Number of Off-Road Trips	Total Distance (km)	Total Off-Road Distance (km)	Average Off-Road Trip Distance (km)
03	12	106.11	7.60	0.63
04	6	117.16	2.20	0.37
05	3	0.00	0.82	0.27
06	9	113.20	2.08	0.23
07	7	878.89	2.36	0.34

Detail Panel Reports

This section describes Detail panel (Reporting Services) reports. These reports are in the process of being phased out, to be replaced with the reports available from the Reports Portal (on page 60).

Note: The content of a report is specific to the tab you are viewing in the Detail panel (on page 25). If you generate a report from the Vehicles tab, it will show information for all assets showing in the Asset Information section. If you run the report from an asset tab, it will show information only for that asset. Please select the relevant assets carefully before running any reports.

In This Section

Generating Detail Panel Reports	110
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Asset Congregation Report	125

Generating Detail Panel Reports

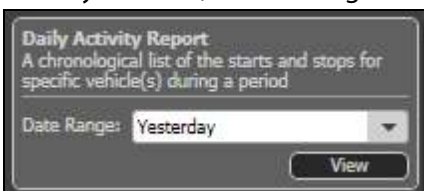
Note: Detail panel reports are soon to be superseded. This topic is for those fleets running Reporting Services reports only.

► To select and generate a Detail panel report:

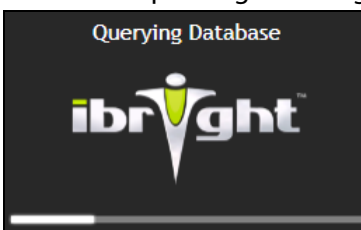
1. Click the report bar (for example, the Daily Activity Report bar below) to select it.

Note: The availability of reports is governed by your fleet configuration, and not all reports may be available to you. If you don't see a report bar that you expected, please [contact us](#) (see "Contact Information" on page 8).

2. When you do so, it will change to light gray, and present you with the configuration options.



3. Make your selections and click **View** to generate the relevant report.
4. While the report is generating, you may see a progress bar.



- When the information for the report has been collected, it will be displayed in a separate browser window (depending on your browser settings, it may launch in a new tab instead of a new window).

Daily Activity Report:

Report Definition: 1 chronological list of the starts and stops of each asset

Report Parameters:

Start Date: 18/Sep/2008 Asset: 337

End Date: 18/Sep/2008

Asset: 337

Total Distance Traveled (km): 523.9

Activity	Date	Time	Location	Odometer (km)
Ign/Gen Off	18/Sep/2008	12:00:00		0.0
Ign/Gen On	18/Sep/2008	12:00:00	2005 Beer Garden R.L. RoadMillon CTT, Iowa, USA	1201.8
Idle/Gen	18/Sep/2008	12:01:00	2005 Beer Garden R.L. RoadMillon CTT, Iowa, USA	1201.8
Ign/Gen Off	18/Sep/2008	12:05:00	2005 Beer Garden R.L. RoadMillon CTT, Iowa, USA	1201.8
Ign/Gen On	18/Sep/2008	12:10:00	2005 Beer Garden R.L. RoadMillon CTT, Iowa, USA	1201.8
Ign/Gen Off	18/Sep/2008	12:15:00	2005 Beer Garden R.L. RoadMillon CTT, Iowa, USA	1201.8
Ign/Gen On	18/Sep/2008	12:20:00	2005 Beer Garden R.L. RoadMillon CTT, Iowa, USA	1201.8
Hoovering	18/Sep/2008	01:26:00	2005 E Olive St, MarlettaGown CTT, Iowa, USA	1201.8
Idle/Gen	18/Sep/2008	01:31:00	2005 E Olive St, MarlettaGown CTT, Iowa, USA	1201.8
Hoovering	18/Sep/2008	01:32:00	2005 E Olive St, MarlettaGown CTT, Iowa, USA	1201.1
Idle/Gen	18/Sep/2008	01:33:00	1000 Broad Creek, Gedota CTT, Iowa, USA	1200.7
Hoovering	18/Sep/2008	01:35:00	1000 Broad Creek, Gedota CTT, Iowa, USA	1200.9
Idle/Gen	18/Sep/2008	01:37:00	1000 Broad Creek, Gedota CTT, Iowa, USA	1200.9
Hoovering	18/Sep/2008	01:48:00	CounDr Club Rd, Gedota CTT, Iowa, USA	1200.2
Idle/Gen	18/Sep/2008	01:49:00	2005 SilverLeland Dr, Elmore CTT, Iowa, USA	1200.9
Hoovering	18/Sep/2008	01:50:00	2005 SilverLeland Dr, Elmore CTT, Iowa, USA	1200.9
Idle/Gen	18/Sep/2008	01:55:00	2005 SilverLeland Dr, Elmore CTT, Iowa, USA	1200.9
Ign/Gen Off	18/Sep/2008	01:56:00	1-60, Elmore CTT, Iowa, USA	1200.2
Ign/Gen On	18/Sep/2008	01:57:00	1-60, Elmore CTT, Iowa, USA	1200.2
Hoovering	18/Sep/2008	01:58:00	2005 SilverLeland Dr, Elmore CTT, Iowa, USA	1200.9
Ign/Gen Off	18/Sep/2008	01:59:00	2005 Beer Garden R.L. RoadMillon CTT, Iowa, USA	1201.8
Idle/Gen	18/Sep/2008	02:00:00	2005 Beer Garden R.L. RoadMillon CTT, Iowa, USA	1201.8
Ign/Gen On	18/Sep/2008	02:01:00	2005 Beer Garden R.L. RoadMillon CTT, Iowa, USA	1201.8
Hoovering	18/Sep/2008	02:06:00	2005 E Olive St, MarlettaGown CTT, Iowa, USA	1201.8
Idle/Gen	18/Sep/2008	02:07:00	2005 E Olive St, MarlettaGown CTT, Iowa, USA	1201.8
Hoovering	18/Sep/2008	02:10:00	6 180 Ave, MarlettaGown CTT, Iowa, USA	1201.0
Idle/Gen	18/Sep/2008	02:17:00	2005 W 40 St, Pella CTT, Iowa, USA	1200.8
Hoovering	18/Sep/2008	02:20:00	612 W 40 St, Pella CTT, Iowa, USA	1200.8
Idle/Gen	18/Sep/2008	02:26:00	1000 R.L. FairFed CTT, Iowa, USA	1201.8

- The report can now be printed or saved to a file - see above for a description of the Report Toolbar (on page 62).

Daily Activity Report

Note: This report is soon to be superseded.

For instructions on running this report, see [Generating Detail Panel Reports](#) (on page 110).

This report shows a chronological list of starts and stops for the selected assets.

Daily Activity Report:					
Report Definition: [Chronological list of the starts and stops of each asset]					
Report Parameters:					
Start Date:	18/Sep/2008	Time:	00:00		
End Date:	18/Sep/2008				
Asset:	007				
Total Distance Traveled (km)	823.9				
Activity	Date	Time	Location	Odometer (km)	
Ign/Gen Off	18/Sep/2008	07:00:00		0.0	
Ign/Gen On	18/Sep/2008	07:00:00	1000 Beer Garden Rd., Round Bay CTY, Iowa, USA	0000.0	
Idle/Gen On	18/Sep/2008	07:01:00	1000 Beer Garden Rd., Round Bay CTY, Iowa, USA	0001.0	
Ign/Gen Off	18/Sep/2008	07:02:00	1000 Beer Garden Rd., Round Bay CTY, Iowa, USA	0001.0	
Ign/Gen On	18/Sep/2008	07:03:00	1000 Beer Garden Rd., Round Bay CTY, Iowa, USA	0001.0	
Ign/Gen Off	18/Sep/2008	07:04:00	1000 Beer Garden Rd., Round Bay CTY, Iowa, USA	0001.0	
Ign/Gen On	18/Sep/2008	07:05:00	1000 Beer Garden Rd., Round Bay CTY, Iowa, USA	0001.0	
Hooring	18/Sep/2008	07:06:00	2227 B Olive St., Marshalltown CTY, Iowa, USA	0001.0	
Idle/Gen On	18/Sep/2008	07:07:00	2227 B Olive St., Marshalltown CTY, Iowa, USA	0001.0	
Hooring	18/Sep/2008	07:08:00	2227 B Olive St., Marshalltown CTY, Iowa, USA	0001.1	
Idle/Gen On	18/Sep/2008	07:09:00	1000 Beer Garden Rd., Round Bay CTY, Iowa, USA	0002.7	
Hooring	18/Sep/2008	07:10:00	1000 Beer Garden Rd., Round Bay CTY, Iowa, USA	0002.9	
Idle/Gen On	18/Sep/2008	07:11:00	1000 Beer Garden Rd., Round Bay CTY, Iowa, USA	0002.9	
Hooring	18/Sep/2008	07:12:00	1000 Beer Garden Rd., Round Bay CTY, Iowa, USA	0002.9	
Idle/Gen On	18/Sep/2008	07:13:00	1000 Beer Garden Rd., Round Bay CTY, Iowa, USA	0002.9	
Hooring	18/Sep/2008	07:14:00	1000 Beer Garden Rd., Round Bay CTY, Iowa, USA	0002.9	
Idle/Gen On	18/Sep/2008	07:15:00	1000 Beer Garden Rd., Round Bay CTY, Iowa, USA	0002.9	
Hooring	18/Sep/2008	07:16:00	1000 Beer Garden Rd., Round Bay CTY, Iowa, USA	0002.9	
Idle/Gen On	18/Sep/2008	07:17:00	1000 Beer Garden Rd., Round Bay CTY, Iowa, USA	0002.9	
Hooring	18/Sep/2008	07:18:00	1000 Beer Garden Rd., Round Bay CTY, Iowa, USA	0002.9	
Idle/Gen On	18/Sep/2008	07:19:00	1000 Beer Garden Rd., Round Bay CTY, Iowa, USA	0002.9	
Hooring	18/Sep/2008	07:20:00	1000 Beer Garden Rd., Round Bay CTY, Iowa, USA	0002.9	
Idle/Gen On	18/Sep/2008	07:21:00	1000 Beer Garden Rd., Round Bay CTY, Iowa, USA	0002.9	
Hooring	18/Sep/2008	07:22:00	1000 Beer Garden Rd., Round Bay CTY, Iowa, USA	0002.9	
Idle/Gen On	18/Sep/2008	07:23:00	1000 Beer Garden Rd., Round Bay CTY, Iowa, USA	0002.9	
Hooring	18/Sep/2008	07:24:00	1000 Beer Garden Rd., Round Bay CTY, Iowa, USA	0002.9	
Idle/Gen On	18/Sep/2008	07:25:00	1000 Beer Garden Rd., Round Bay CTY, Iowa, USA	0002.9	
Hooring	18/Sep/2008	07:26:00	1000 Beer Garden Rd., Round Bay CTY, Iowa, USA	0002.9	
Idle/Gen On	18/Sep/2008	07:27:00	1000 Beer Garden Rd., Round Bay CTY, Iowa, USA	0002.9	
Hooring	18/Sep/2008	07:28:00	1000 Beer Garden Rd., Round Bay CTY, Iowa, USA	0002.9	
Idle/Gen On	18/Sep/2008	07:29:00	1000 Beer Garden Rd., Round Bay CTY, Iowa, USA	0002.9	
Hooring	18/Sep/2008	07:30:00	1000 Beer Garden Rd., Round Bay CTY, Iowa, USA	0002.9	
Idle/Gen On	18/Sep/2008	07:31:00	1000 Beer Garden Rd., Round Bay CTY, Iowa, USA	0002.9	
Hooring	18/Sep/2008	07:32:00	1000 Beer Garden Rd., Round Bay CTY, Iowa, USA	0002.9	
Idle/Gen On	18/Sep/2008	07:33:00	1000 Beer Garden Rd., Round Bay CTY, Iowa, USA	0002.9	
Hooring	18/Sep/2008	07:34:00	1000 Beer Garden Rd., Round Bay CTY, Iowa, USA	0002.9	
Idle/Gen On	18/Sep/2008	07:35:00	1000 Beer Garden Rd., Round Bay CTY, Iowa, USA	0002.9	
Hooring	18/Sep/2008	07:36:00	1000 Beer Garden Rd., Round Bay CTY, Iowa, USA	0002.9	
Idle/Gen On	18/Sep/2008	07:37:00	1000 Beer Garden Rd., Round Bay CTY, Iowa, USA	0002.9	
Hooring	18/Sep/2008	07:38:00	1000 Beer Garden Rd., Round Bay CTY, Iowa, USA	0002.9	
Idle/Gen On	18/Sep/2008	07:39:00	1000 Beer Garden Rd., Round Bay CTY, Iowa, USA	0002.9	
Hooring	18/Sep/2008	07:40:00	1000 Beer Garden Rd., Round Bay CTY, Iowa, USA	0002.9	
Idle/Gen On	18/Sep/2008	07:41:00	1000 Beer Garden Rd., Round Bay CTY, Iowa, USA	0002.9	
Hooring	18/Sep/2008	07:42:00	1000 Beer Garden Rd., Round Bay CTY, Iowa, USA	0002.9	
Idle/Gen On	18/Sep/2008	07:43:00	1000 Beer Garden Rd., Round Bay CTY, Iowa, USA	0002.9	
Hooring	18/Sep/2008	07:44:00	1000 Beer Garden Rd., Round Bay CTY, Iowa, USA	0002.9	
Idle/Gen On	18/Sep/2008	07:45:00	1000 Beer Garden Rd., Round Bay CTY, Iowa, USA	0002.9	
Hooring	18/Sep/2008	07:46:00	1000 Beer Garden Rd., Round Bay CTY, Iowa, USA	0002.9	
Idle/Gen On	18/Sep/2008	07:47:00	1000 Beer Garden Rd., Round Bay CTY, Iowa, USA	0002.9	
Hooring	18/Sep/2008	07:48:00	1000 Beer Garden Rd., Round Bay CTY, Iowa, USA	0002.9	
Idle/Gen On	18/Sep/2008	07:49:00	1000 Beer Garden Rd., Round Bay CTY, Iowa, USA	0002.9	
Hooring	18/Sep/2008	07:50:00	1000 Beer Garden Rd., Round Bay CTY, Iowa, USA	0002.9	
Idle/Gen On	18/Sep/2008	07:51:00	1000 Beer Garden Rd., Round Bay CTY, Iowa, USA	0002.9	
Hooring	18/Sep/2008	07:52:00	1000 Beer Garden Rd., Round Bay CTY, Iowa, USA	0002.9	
Idle/Gen On	18/Sep/2008	07:53:00	1000 Beer Garden Rd., Round Bay CTY, Iowa, USA	0002.9	
Hooring	18/Sep/2008	07:54:00	1000 Beer Garden Rd., Round Bay CTY, Iowa, USA	0002.9	
Idle/Gen On	18/Sep/2008	07:55:00	1000 Beer Garden Rd., Round Bay CTY, Iowa, USA	0002.9	
Hooring	18/Sep/2008	07:56:00	1000 Beer Garden Rd., Round Bay CTY, Iowa, USA	0002.9	
Idle/Gen On	18/Sep/2008	07:57:00	1000 Beer Garden Rd., Round Bay CTY, Iowa, USA	0002.9	
Hooring	18/Sep/2008	07:58:00	1000 Beer Garden Rd., Round Bay CTY, Iowa, USA	0002.9	
Idle/Gen On	18/Sep/2008	07:59:00	1000 Beer Garden Rd., Round Bay CTY, Iowa, USA	0002.9	
Hooring	18/Sep/2008	08:00:00	1000 Beer Garden Rd., Round Bay CTY, Iowa, USA	0002.9	

Geofence Trip Report

Note: This report is soon to be superseded.

For instructions on running this report, see [Generating Detail Panel Reports](#) (on page 110).

This report shows the movements of the selected assets between Geofences, including total duration and distance during the selected range.

Geofence Trip Report:						
Report Definition: Lists of motion between Geofences including total duration and distance during a period.						
Report Parameters:						
Start Date:	19/May/2008		Assets:	198		
End Date:	19/May/2008		Geofences:	All		
Asset:	198					
Date	Departure	Arrival	From Location	To Location	Duration	Distance (mi)
19/May/2008	02:28 AM	02:31 AM	Kansas Shop	Kansas Shop	00 h 03 m	0.00
	04:31 AM	04:35 AM	Kansas Shop	Kansas Shop	00 h 04 m	0.44
	05:46 AM	05:50 AM	Kansas Shop	Kansas Shop	00 h 04 m	0.26
	11:41 PM	11:44 PM	Kansas Shop	Bonner Springs Plant	00 h 03 m	0.08
	11:45 PM	11:48 PM	Bonner Springs Plant	Kansas Shop	00 h 03 m	0.09
Daily Total:					00 h 17 m	0.86
Period Total:					00 h 17 m	0.86

Geofence Visit Report

Note: This report is soon to be superseded.

For instructions on running this report, see [Generating Detail Panel Reports](#) (on page 110).

The configuration options also allow selecting of assets within asset groups as well as Geofence groups.

The report can be generated in summary as well as detailed formats. This is an example of a summary report for a single asset:

Geofence Visit Summary Report:

Report Definition: Frequency of visits to Geofences during a period listed for selected assets.
NOTE: Accuracy of Average Duration is dependent on number of trips.

Report Parameters:

Start Date: 19/May/2008 Assets: 198
End Date: 19/May/2008 Geofences: All

Asset: 198

Date	Geofence	Visits	Average Duration	Duration
19/May/2008	Kansas Shop	4	05 h 19 m	21 h 16 m
	Bonner Springs Plant	1	00 h 01 m	00 h 01 m
	Period Total:	5		21 h 17 m

This is an example of a detailed report for the same asset, for the same period:

Geofence Visit Report:

Report Definition: Frequency of visits to Geofences during a period for a specific asset.

Report Parameters:

Start Date: 19/May/2008 Assets: 198
End Date: 19/May/2008 Geofences: All

Asset: 198

Date	Arrival	Departure	Geofence	Duration
19/May/2008	02:31 AM	04:31 AM	Kansas Shop	02 h 00 m
	04:35 AM	05:46 AM	Kansas Shop	01 h 11 m
	05:50 AM	11:41 PM	Kansas Shop	17 h 51 m
	11:44 PM	11:45 PM	Bonner Springs Plant	00 h 01 m
	19/May/2008 11:48 PM	20/May/2008 12:02 AM	Kansas Shop	00 h 14 m
Daily Total:				21 h 17 m
Period Total:				21 h 17 m

Idling Report (Detail Panel)

Note: This report is soon to be superseded.

For instructions on running this report, see [Generating Detail Panel Reports](#) (on page 110).

This report shows the duration that the selected assets may have been idling beyond a customer defined threshold.

Note: Idling is defined as when the engine is running but the vehicle is stationary.

Idling Report:

Report Definition: Shows all assets and total time that they have idled for more than the customer defined threshold e.g. 5 minutes.
 Note: Idling is defined as engine running but not moving.

Report Parameters:

Start Date:	11/May/2008	Assets:	323
End Date:	17/May/2008	Waiting Threshold Duration:	00 h 05 m00 s

Asset: 323

Total Idling Time	Average Idling Time	% of Total Running Time
1 d 13 h 24 m	00 h 47 m45 s	39.58 %

Date	Start	Stop	Location	Duration
11/May/2008	06:06 AM	06:23 AM	Motel Dr, Grants CITY, New Mexico, USA	00 h 17 m20 s
	06:26 AM	06:44 AM	Motel Dr, Grants CITY, New Mexico, USA	00 h 15 m56 s
	09:02 AM	09:33 AM	State Highway 77, Arizona, USA	00 h 31 m21 s
	12:57 PM	01:17 PM	Nellie Dr, Arizona, USA	00 h 20 m10 s
Daily Total:				01 h 24 m49 s

Ignition Report (Detail Panel)

Note: This report is soon to be superseded.

For instructions on running this report, see [Generating Detail Panel Reports](#) (on page 110).

This report shows the total time and distance between turning the engine ON and turning it OFF for the selected assets.

Ignition Report:						
Report Definition: Total time and distance between ignition ON and OFF of an asset during a period including engine idle.						
Report Parameters:						
Start Date:	11/May/2008			Assets:	323	
End Date:	11/May/2008					
Asset:	323					
Start Date	Start	Stop	Start Location	Stop Location	Duration	Distance (mi)
11/May/2008	02:26 AM	01:17 PM	United States Highway 84, Santa Rosa CITY, New Mexico, USA	Blake Ranch Rd, Arizona, USA	10 h 51 m	582.08
	02:24 PM	02:24 PM	Blake Ranch Rd, Arizona, USA	Blake Ranch Rd, Arizona, USA	00 h 00 m	0.00
Daily Total:					10 h 51 m	582.08
Period Total:					10 h 51 m	582.08

MDT (Mobile Data Terminal) Message Report

Note: This report is soon to be superseded.

For instructions on running this report, see [Generating Detail Panel Reports](#) (on page 110).

This report lists the MDT (Mobile Data Terminal) messages for a given period.

MDT Message Report:

Report Definition: List of messages sent or received during a defined period.

Report Parameters:

Start Date: 18/March/2008 Assets: 308

End Date: 18/March/2008

Asset: 308

Direction	Date	Message Recieved	Location	Message
Sent	18/Mar/2008 03:10:53			Dan, you can call Steve @ 800-295-5268. Mpls, to Arlington Heights,IL. Bring your tarps for the return load.
Response				
Sent	18/Mar/2008 08:36:48	18/Mar/2008 08:36:51	N/A	Dan you can call 651-270-7960. (Steve)
Response	18/Mar/2008 08:37:39		N/A	Yes

Motion Report

Note: This report is soon to be superseded.

For instructions on running this report, see [Generating Detail Panel Reports](#) (on page 110).

This report describes the total time and distance travelled by the selected assets while moving, for a selected period.

Motion Report:

Report Definition: Total time and distance travelled by the asset while moving during a period, excluding engine idling.

Report Parameters:

Start Date: 19/May/2008 Assets: 244

End Date: 19/May/2008

Asset: 244

Start Date	Start	Stop	Start Location	Stop Location	Duration	Distance (mi)
19/May/2008	06:54 AM	09:04 AM	123 Central Ave, Milaca CITY, Minnesota, USA	North US Hwy 63, Wisconsin, USA	02 h 10 m	108.13
	09:07 AM	09:14 AM	784 29 5/8 Ave, Wisconsin, USA	780 29 1/2 Ave, Wisconsin, USA	00 h 07 m	0.20
	09:51 AM	01:13 PM	781 29 1/2 Ave, Wisconsin, USA	Kinney Rd, USA, NULL	03 h 22 m	218.83
	01:24 PM	02:15 PM	Kinney Rd, Wisconsin, USA	I-39, Wisconsin, USA	00 h 51 m	51.42
	19/May/2008 02:37 PM		537 Haugen Rd, Wisconsin, USA	No GPS Coverage	00 h 00 m	0.00
Daily Total:					06 h 30 m	378.577
Period Total:					06 h 30 m	378.577

Odometer Report

Note: This report is soon to be superseded.

For instructions on running this report, see [Generating Detail Panel Reports](#) (on page 110).

This report shows the last reported odometer reading for the selected assets.

Odometer Report:		
Report Definition:	List of selected assets and their reported Odometer readings	
Number of Assets:	1	
Asset	Date	Odometer (mi)
244	19/May/2008 02:47 PM	366443.108

Service Report

Note: This report is soon to be superseded.

For instructions on running this report, see [Generating Detail Panel Reports](#) (on page 110).

Sorting Criteria:

- Date
- Odometer
- Engine hours
- Fuel used.

Service Report:

Report Definition: List assets and when they are due for service based on Date, Odometer, Engine Hours and Fuel Used.

Key:

- Overdue (Red)
- Nearly Overdue (Orange)
- Service Approaching (Yellow)
- OK (Green)

Asset			Date		Miles		Engine Hours		Fuel Used (gal.)	
Asset Name	Make	Model	Last Service	Date Due	Current	Service Due	Current	Service Due	Current	Service Due
287	Kenworth	T800	21 Apr 2008	21 Apr 2008	211279.876	372822.715	288.50	688.00	0.00	50.85

Speed Exceptions Report

Note: This report is soon to be superseded.

For instructions on running this report, see [Generating Detail Panel Reports](#) (on page 110).

This report lists speed exceptions for the selected assets based on threshold and date range configuration options. It is available in summary and detailed formats.

The summary version of this report would be most useful to gain an overview of speed exceptions across a number of assets, so filtering or grouping assets into the Detail panel before running the summary report is recommended.

Speed Exceptions Report:

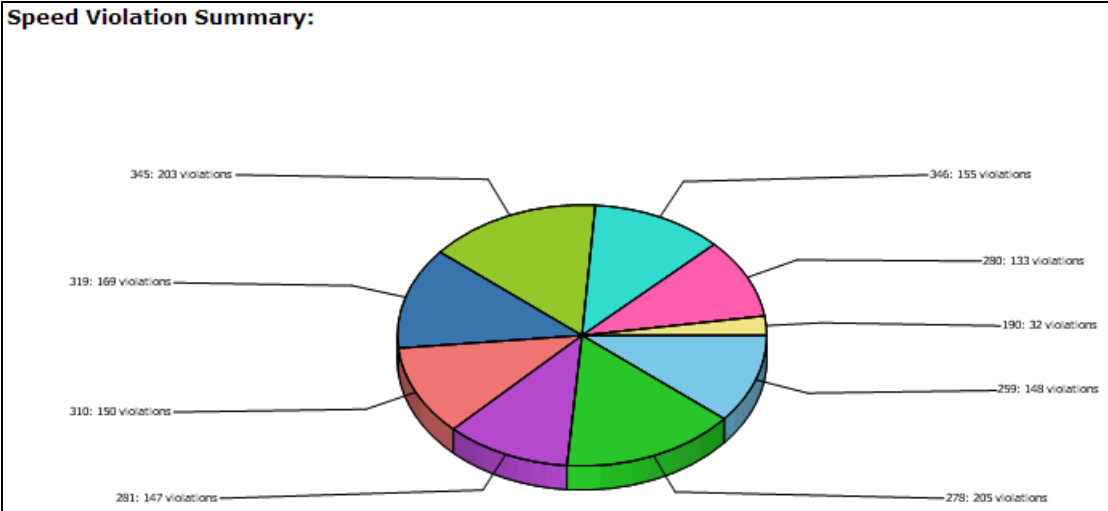
Report Definition: List of speeding exceptions for all assets based on customer defined threshold(s) e.g. 100 kph or 80 mph

Report Parameters:

Start Date:	11/May/2008	Assets:	All Selected Assets
End Date:	17/May/2008	Speed Threshold:	60.00 Mph

Assets	Max Spd (Mph)	Violations
278	73.28	205.00
345	74.02	203.00
319	73.09	169.00
346	78.87	155.00
310	73.09	150.00
259	72.90	148.00
281	75.33	147.00
280	70.91	133.00
190	74.46	32.00

At the end of the summary list, a pie chart allows you to visually compare speed exceptions across all selected assets at a glance.



Generating the detailed report is most useful for a single asset.

Speed Exceptions Report:

Report Definition: List of speeding exceptions for an asset based on customer defined threshold e.g. 100 kph or 80 mph
 Note: Threshold can also be based on Road assigned speed limits.

Report Parameters:

Start Date: 11/May/2008 Assets: 190
 End Date: 17/May/2008 Speed Threshold: 60.00 Mph

Asset: **Speed Violations:**
 60.00 Mph 32

Name: 190

Date	Asset	Location	Time	Spd (Mph)	Duration	Max Spd Attained (Mph)
14/May/2008	190	I-35, Burnsville CITY, Minnesota, USA	01:55:20 AM	61.40	00 h 00 m	61.40
	190	I-35, Burnsville CITY, Minnesota, USA	02:07:10 AM	61.90	00 h 09 m	71.97
	190	I-35, Minnesota, USA	02:17:45 AM	61.16	00 h 30 m	74.08
	190	I-35, USA	03:23:24 AM	67.25	00 h 40 m	73.77
	190	6727 Cty Hwy 101 , Shakopee CITY, Minnesota, USA	04:11:36 AM	63.21	00 h 00 m	63.21
	190	Townline Ave, USA	05:17:40 AM	61.03	00 h 01 m	61.03
	190	9453 Ensign Ave, USA	05:19:34 AM	61.53	00 h 01 m	63.21
	190	I-494, USA	05:25:52 AM	62.40	00 h 01 m	65.07
	190	I-494, Minnetonka CITY, Minnesota, USA	06:43:17 AM	61.40	00 h 04 m	68.66
	190	9066 Townline Ave, USA	06:50:07 AM	62.09	00 h 03 m	71.65

Stop Report (Detail Panel)

Note: This report is soon to be superseded.

For instructions on running this report, see [Generating Detail Panel Reports](#) (on page 110).

This report shows stop times for selected assets. It can be generated in both summary and detailed report formats.

This is the summary version of the report. It's most useful to compare stop times for a number of assets.



This is the detailed version of the same report. It's most useful for a single asset.

Stop Report:

Report Definition: Total time spent by an asset between the Arrival at and Departure from a location.

Report Parameters:

Start Date: 16/May/2008

Assets: 278

End Date: 16/May/2008

Stop Duration Threshold: 00 h 05 m00 s

Key:

 Stopped longer than 00 h 30 m00 s

Asset: 278

Total Stop Time	Average stop Time	Number of Stops longer than 00 h 30 m00 s	Total Number Stops
15 h 36 m31 s	01 h 44 m03 s	4	9

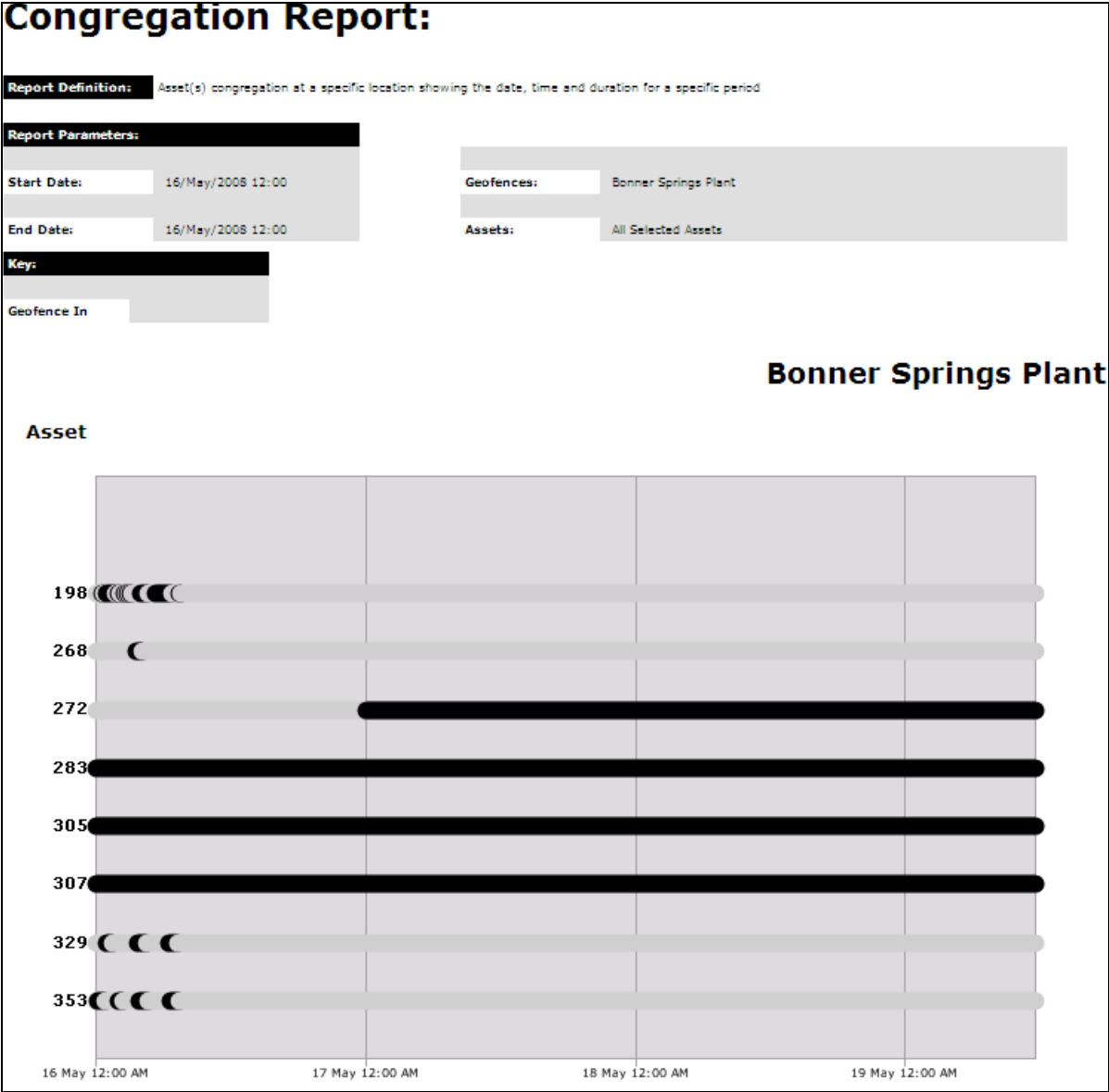
Date	Arrival	Departure	Location	Duration
16/May/2008	12:06 AM	12:59 AM	7021 S Cretex Ave, Shakopee CITY, Minnesota, USA	00 h 53 m16 s
	01:29 AM	01:35 AM	15296 Lesley Ln, Eden Prairie CITY, Minnesota, USA	00 h 06 m08 s
	03:48 AM	04:03 AM	4453 County Road 13, Minnesota, USA	00 h 15 m11 s
	04:06 AM	04:19 AM	4660 S Riverview Dr, Minnesota, USA	00 h 12 m24 s
	04:23 AM	04:30 AM	4589 S Riverview Dr, Minnesota, USA	00 h 06 m27 s
	06:24 AM	07:04 AM	Highway 10, USA	00 h 39 m36 s
	07:56 AM	08:34 AM	7057 S Cretex Ave, Eden Prairie CITY, Minnesota, USA	00 h 38 m20 s
	09:17 AM	09:49 PM	5071 Cty Hwy 101, Shakopee CITY, Minnesota, USA	12 h 32 m28 s
	09:50 PM	10:03 PM	5092 Cty Hwy 101, Shakopee CITY, Minnesota, USA	00 h 12 m42 s
Daily Total:				15 h 36 m31 s
Period Total:				15 h 36 m31 s

Asset Congregation Report

Note: This report is soon to be superseded.

For instructions on running this report, see [Generating Detail Panel Reports](#) (on page 110).

This report enables you to see which assets may have been present at a specific time within a Geofence.



Congregation Data:

Asset: [REDACTED] 198

Date	Arrival	Departure	Duration
16/May/2008	12:27 AM	12:37 AM	00 h 10 m
	12:50 AM	01:42 AM	00 h 52 m
	01:59 AM	02:01 AM	00 h 02 m
	02:28 AM	02:33 AM	00 h 05 m
	02:45 AM	02:48 AM	00 h 03 m
	03:02 AM	03:06 AM	00 h 04 m
	03:34 AM	03:37 AM	00 h 03 m
	03:56 AM	04:34 AM	00 h 38 m
	05:00 AM	05:01 AM	00 h 01 m
	05:14 AM	06:40 AM	01 h 26 m
	07:01 AM	07:05 AM	00 h 04 m
	07:21 AM	07:28 AM	00 h 07 m

Asset: [REDACTED] 268

Date	Arrival	Departure	Duration
16/May/2008	03:32 AM	03:50 AM	00 h 18 m
	03:56 AM	03:59 AM	00 h 03 m

Appendix A: Hardware Maintenance

The ibright® X-Series unit is robustly constructed for standard use.

A few common-sense precautions will ensure that you enjoy years of trouble free service from your ibright® Solution.

- Ensure that the ibright® X-Series unit is installed by an accredited installer. Connecting or installing the ibright® unit requires an in-depth knowledge of the auto-electrical field, and should not be attempted by the user.
- The ibright® X-Series unit will be installed in the best possible location on your asset to ensure that it is clean, dry, and dust-free. Inspect the unit occasionally to ensure that its position has not changed, and that it remains protected from the elements.
- Ensure that the asset hosting the ibright® technology is properly maintained.
- Maintain asset power supply. Old batteries can cause the ibright® unit to perform below expected parameters, and affect the data.
- Exercise caution when allowing 3rd party electrical installers access to the asset's electrical system. For example, if installing audio equipment or RT (radio telephone) systems in the asset, ensure that the ibright installation and associated connections are not tampered with in any way. A common issue is that such installers attempt to use the ibright® unit's earth point or power supply for other equipment - this may have a negative effect on the ibright® installation.

Appendix B: Frequently Asked Questions and Troubleshooting

This section of the guide deals with frequently asked questions and troubleshooting issues when using ibright® Enterprise.

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Asset appears offline when I know it is online.

This may be due to a temporary loss of GPRS (data) connection or GPS lock - this may occasionally happen if the mobile asset is passing through a tunnel or an area of high interference. If the problem does not sort itself out and if the asset does not reappear in a few minutes, contact us for support (see "Contact Information" on page 8).

How can I see where a fleet asset has been at a given time?

Use the Trip View and Playback (on page 44) tools to view a historical record of journeys, use the Geofence Trip Report (on page 113) to see which Geofences it has visited, or use the Daily Activity Report (see "Activity - Detail Report" on page 68) for details of an asset's movements for a day.

How do I create a Geofence?

Use our step-by-step instructions in Geofence Management (on page 47).

I can't log in to ibright® Enterprise, I see the message 'Incorrect Username and Password'.

If you're sure you are using the correct username and password, your fleet administrator may have changed your login details. Contact your fleet administrator, or us (see "Contact Information" on page 8).

I can't see an asset that I expected to see in the Detail panel.

Please check that the asset has been provisioned (see "Provisioning of Assets" on page 14). When setting up a fleet of assets there may be a slight delay from the time of installation to the time of provisioning. Feel free to contact us to check (see "Contact Information" on page 8).

Message 'Asset Data is unsynchronized. Refreshing in X seconds' appears in Map Window.

This message may appear in the Map window from time to time.

It simply means that the data stream has been temporarily halted. This could be for a number of reasons - your data connection or GPS connection may have stopped.

You do not need to do anything, as ibright® Enterprise will refresh itself in a few seconds.

Message 'Unable to connect to a map server. Please check your network connection' appears in Map window

This message may appear in the Map window from time to time.

This is no cause for alarm. It simply means that the map data stream has been temporarily halted. It could be for a number of reasons - your data connection may have stopped, ibright® Enterprise may have an error.

You do not need to do anything, as ibright® Enterprise will refresh itself in a few seconds.

No odometer reading is present for the asset.

This is a maintenance issue, and must be diagnosed and repaired by a qualified technician. Please contact us for support (see "Contact Information" on page 8).

Glossary

D

DMS

Degrees, Minutes and Seconds - the standard Geocode position representation format for latitude and longitude values, for example 36°30'18.67"N.

ibright® Solution components use DMS format values by default, but decimal Geocode values can also be specified in search fields as they are easy to enter and do not require special codes. They will be converted to DMS values on running the search.

G

Geofence

Geofences are 'virtual areas' defined within the ibright® Solution that serve as checkpoints for asset movements. By comparing the data from an asset before, during and after an asset passes through a Geofence, a comprehensive picture of an asset's visit to a certain location or area can be obtained.

I

ibright® Enterprise Software

The user interface and software application in which you can work with the telematic information generated by assets using the ibright® Solution.

ibright® X-Series Unit

The compact telematic computing and communications unit that is the heart of the ibright® Solution. It is installed in every asset, and transmits OBD-II, SAE J1587 and SAE J1939 diagnostic data and GPS location information to the International Telematics Servers when the asset is active.

IFTA

International Fuel Tax Agreement. An agreement between the lower 48 states of the United States and the Canadian provinces to simplify the reporting of fuel use by freight carriers that operate in multiple jurisdictions.

J

J1587

SAE J1587 is a diagnostic data standard used on older assets (for example, older trucks and heavy vehicles).

J1939

SAE J1939 is a diagnostic data standard. Most modern assets (for example, trucks and heavy vehicles) use this standard.

M

MDT

Mobile Data Terminal, a compact computer that may either be plugged into the ibright® unit to view and analyze stored telematic information, or installed in an asset to show that information or enable communications between an office base and an asset operator.

N

NZTA

New Zealand Transport Agency. In the context of land transport policy initiatives, directives and documents, NZTA is now synonymous with Land Transport New Zealand (LTNZ) and Land Transport Safety Authority (LTSA). It is responsible, among other things, for administering road infrastructure maintenance and revenue from road users like RUC (see below).

O

OBD, OBD-II

On-Board Diagnostics, a protocol developed by General Motors in the mid 1980s used in the capture of diagnostic information from assets. OBD-II is the latest version of the protocol, and is equivalent to SAE J1979. This standard is mainly used in cars.

P

PLC

Power Line Communication, the technology that allows data to be exchanged over power lines. In fleet asset management, PLC technology allows drivers to monitor the status of trailers. For the ibright® Solution a **PLC Reader** is linked to the

ibright® unit, and communicates with a **PLC ID** unit in the trailer.

POI

Point Of Interest - a Geofence object (see above) that is not a polygon.

PTO

Power Take-Off, a mechanical link provided on tractor assets to allow farm equipment, for example, to be driven by the tractor.

R

RUC

Road User Charges, a New Zealand specific levy on heavy vehicles and specialized vehicles that are not taxed at the source, to allow them to operate on public roads. RUC is administered by NZTA (see above).

S

Smart Beacons

An ibright® Solution technology that reports GPS position data only when an asset changes direction of travel, not at specified time intervals, ensuring that the data is meaningful and accurate.

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