DriveRight® FMS 3.5

User's Manual

Product # 8186

Davis Instruments

DriveRight Fleet Management Software Version 3.5 User's Manual

Rev D (January 30, 2006)

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DriveRight FMS Help

Welcome to DriveRight Fleet Management Software

Click on the topics below for help using DriveRight® Fleet Management Software (FMS) version 3.5:

Getting Started - How to get your DriveRight software rolling.

Quick Reference - Basic info and quick links for routine tasks.

Menu Commands - Everything you can do in DriveRight FMS.

Troubleshooting - Help when you have problems.

January 30, 2006

Getting Started

Getting Started Menu

The following help topics will help you getting started with DriveRight Fleet Management Software.

Introduction to FMS

What's New for DriveRight FMS 3.5

Release Notes for Versions 3.4, 3.3, 3.2, 3.1, and 3.0

Architecture

Database Selection Guidelines

Converting VMS 2.04-2.06 Data for FMS

Setup Overview

Tool Bar

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Introduction to DriveRight FMS

The DriveRight Fleet Management Software (FMS) allows you to store, view, and manipulate DriveRight data on your Windows-compatible computer. More specifically, FMS provides tools for sorting, tracking, analyzing and printing data, and viewing and printing reports for a number of individual DriveRight consoles at a number of different locations.

DriveRight FMS features include:

- Tracking drivers, vehicles, locations, and service
- Viewing, graphing, printing and saving "accident log" information
- Multiple user levels
- Tamper logs
- Sorting data and creating reports according to user-defined selection criteria
- Summarize data by day and by trip
- Integrated Microsoft MapPoint support for mapping of GPS data
- Compare vehicles, drivers, or groups of drivers
- FTP Export / FTP Import data
- Palm download support

See also:

Architecture
Copyrights

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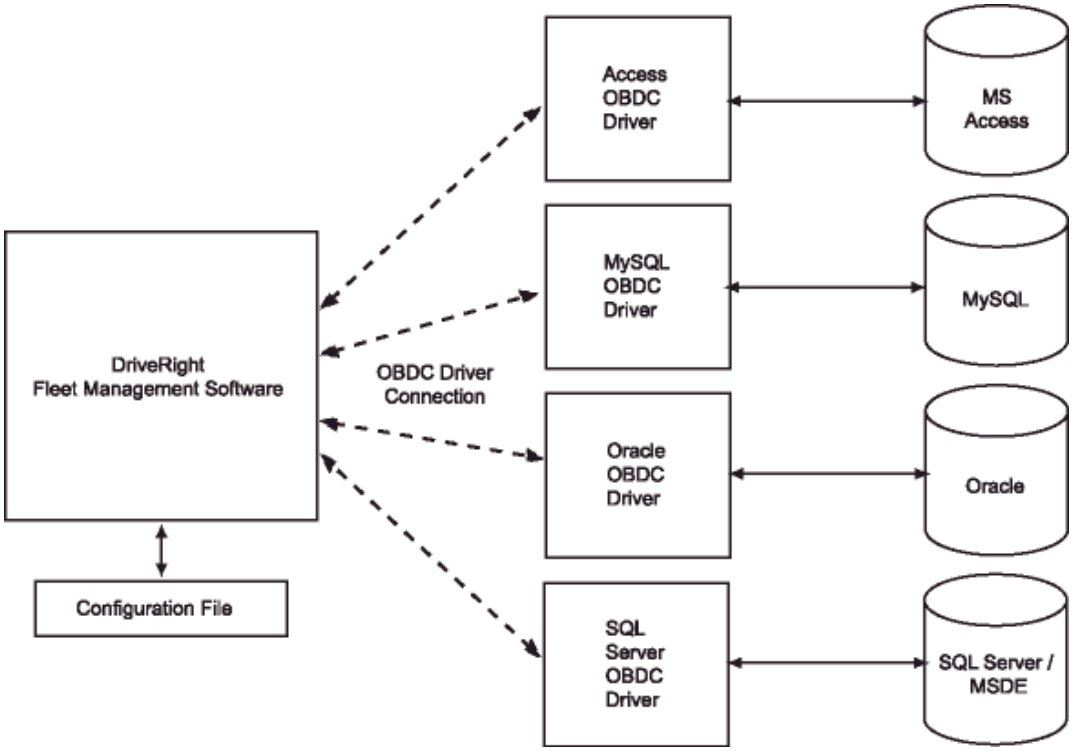
Architecture

DriveRight Fleet Management Software (FMS) architecture allows the software to be connected to any of the Database Servers we support. The communication between DriveRight FMS and Database is done through an OBDC connection by means of an OBDC driver. Currently DriveRight FMS supports MS Access, My SQL, MSDE, SQL Server and Oracle databases. Other databases may be added in the future.

The following figure illustrates how DriveRight FMS connects to the back-end Database Server.



Note: DriveRight can only be connected to one database at a time.

When DriveRight FMS is opened for the first time, the user is prompted to select the database type to be used for this installation. Based on the user's selection, a connection is established to one of the OBDC drivers. The database type is stored in the configuration file.

See also:

Database Selection Guidelines

Setup Overview

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Database Selection Guidelines

Please refer to the DriveRight FMS Database Selection Guide for information on choosing and installing a database for your installation. We included a printed copy of the Database Selection Guide with your DriveRight FMS as well as a PDF version that can be found in the DriveRight FMS program folder. The Database Selection Guide can also be downloaded from the Automotive Support section of our website: DriveRight FMS Database Selection Guide.

Printed Documentation

DriveRight Fleet Management Software (FMS) supports the following databases.

Single-User Databases:

- MS Access (Microsoft Access)
- MSDE (Microsoft Desktop/Data Engine)

Multi-User Databases:

- MySQL
- MS SQL Server (Microsoft SQL Server)
- Oracle

Note:

See also:

Architecture

Setup Overview

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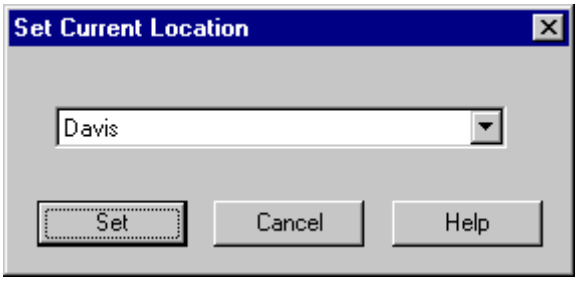
Converting 2.04-2.06/2.6.1 Database to DriveRight FMS Format

A separate conversion utility, OldToNew, has been included with the DriveRight FMS software to allow the conversion of existing DriveRight 2.04, 2.05, 2.06 and 2.6.1 database files for use with DriveRight FMS.

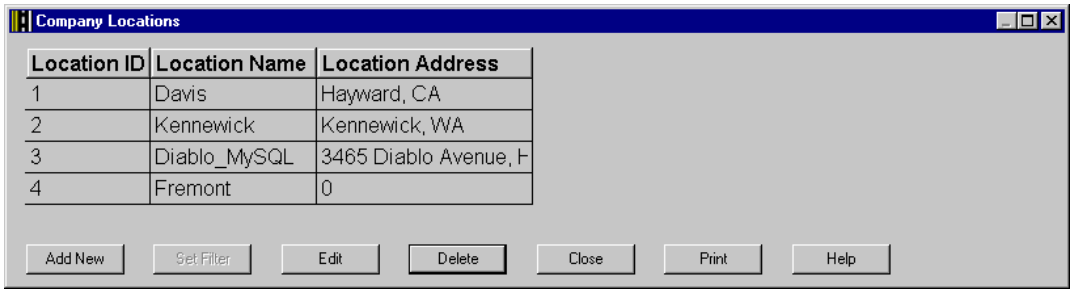
Note: This conversion utility can only be used with databases created by DriveRight 2.04, 2.05, 2.06 or 2.6.1. If you are using an earlier version of the DriveRight software you must first upgrade to one of the supported versions.

Use the following procedure to convert your existing DriveRight database for use with DriveRight FMS:

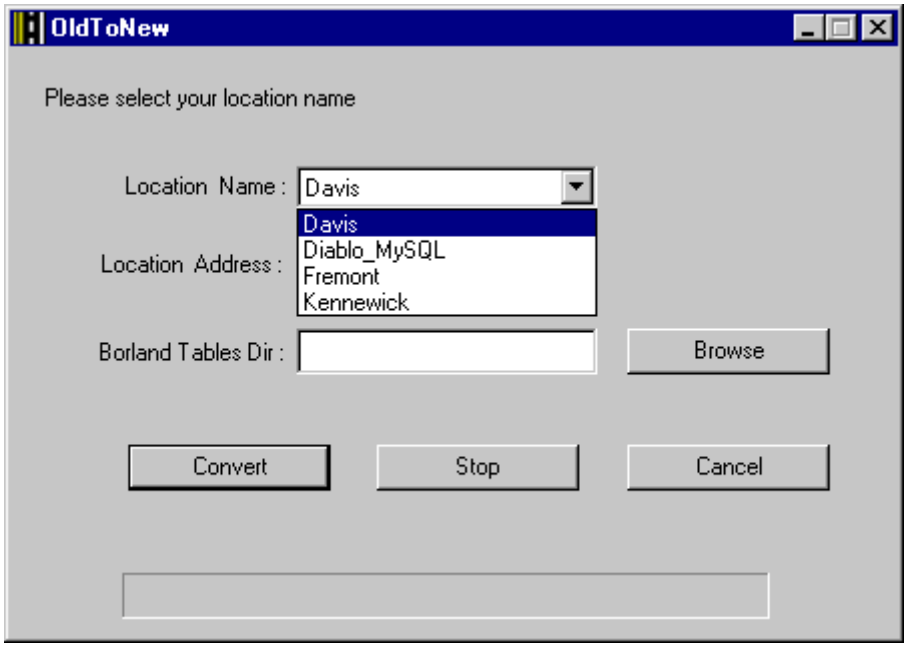
1. Install and run DriveRight FMS before you convert your data to the new format.
2. Verify the current location in DriveRight FMS using the Current Location command in the Setup Menu. This location information will be associated with all the 2.x data when converted into the new database format.



3. To import data to a new location, select the Company Locations command in the Database Menu in DriveRight FMS, then click the Add New button in the Company Locations browse window.



4. Go to Startup>Programs>DriveRight and run OldToNew.
5. To import data, select the location from the drop down list.



6. Click the Browse button to select the DriveRight 2.x tables directory (By default it is C:\Program Files\DriveRight Software\tables).
7. Click the Convert button to start the conversion. Once the data is converted you will see a success message.

Note: The conversion process can take a long time depending on the size of your 2.x database. You can interrupt the conversion at any time by clicking the stop button, but this is not recommended.

8. All the 2.x data has been converted into the new database format for DriveRight FMS.
9. Go to DriveRight FMS and view various tables using the Database Menu commands to make sure the data has been converted properly.

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Setup Overview

The initial setup of your DriveRight FMS consists of the following operations:

1. Select and Install Database

Before you run the software for the very first time you will need to select the database to be used with DriveRight FMS. Refer to the Database Selection Guide for information on choosing and installing a database.

If you select either MS Access or MSDE, DriveRight FMS will install the necessary components during the FMS installation. If you select MySQL, MS SQL Server, or Oracle, you will need to install and configure the database before installing DriveRight FMS.

Database Selection Guidelines

2. Install DriveRight FMS

Insert the DriveRight FMS CD and follow instructions.

3. Initial Program Configuration when you first run DriveRight FMS.

Refer to the DriveRight FMS Getting Started Guide for initial program configuration information.

4. Converting DriveRight 2.04, 2.05 & 2.06 Databases

If you have a DriveRight database created using version 2.04, 2.05, or 2.06 of the DriveRight Vehicle Management Software, it needs to be converted for use with DriveRight FMS:

Convert Database

5. DriveRight FMS Software Setup

Check the following configuration preferences and make any necessary changes:

Set Units - Select your unit preferences for the data displayed in the dialog boxes, database browser, and reports.

Automation Options - If this option is set, you will be prompted to backup data at the intervals specified, and also can set the amount of data to keep in the current database.

Download Options - Use this option to synchronize the DriveRight device date and time with your computer after each download. Also, if a downloaded device is either a 500 or 600 model, you can choose how the software will treat the Driver ID. Once set, this preference will be uniform for all devices.

6. Set Default DriveRight Settings Wizard

The values entered in this setup are used as default settings when you add new DriveRight devices to the database. You can set DriveRight default values using the Default DriveRight Settings Wizard in the Setup Menu. Check the default settings to make sure they suit your application.

7. Set Default CarChip Settings

The values entered in this setup are used as default settings when you add new CarChip devices to the database. You can set CarChip default values using the Default CarChip Settings command in the Setup Menu. Check the default settings to make sure they suit your application.

Note: If you are using both DriveRight and CarChip devices in your fleet, be sure to set the Safety Settings uniformly for both types of devices.

8. Select the Serial Port and Test Communications

- Use the Serial Port - DriveRight command in the Setup Menu to select the serial port used to connect to a DriveRight device.
- Use the Serial Port - CarChip command in the Setup Menu to select the serial port used to connect to a CarChip device.
- Use the Auto Detect feature in the Serial Port dialog box to test communications.

9. CarChip / DriveRight Considerations

- If both a CarChip device and DriveRight console are installed in the same vehicle, you will need to create duplicate entries in the DriveRight FMS databases for the vehicle and driver. Otherwise you will see duplicate trip data in your DriveRight FMS reports.
- If you have multiple serial ports, you can connect CarChip to one serial port and DriveRight to another. If you do not have multiple serial ports we recommend you buy a serial switch box to switch between the two devices or a serial extension cord to make plugging and unplugging the download cables more convenient.

10. Building Your Database Tables

- When you add a DriveRight you will need to assign a default vehicle. When you add a vehicle you will need to assign a default driver. So, it is most efficient to add the drivers first, the vehicles second and the DriveRights third.
  - First, add all drivers.
  - Second, add all vehicles.
  - Third, add all DriveRights.
- When you add a CarChip you will need to assign it to either a vehicle or a driver. If you assign CarChip to a vehicle, all the downloaded data is assigned to the default driver of that vehicle. If you assign CarChip to a driver, all the downloaded data is assigned to that driver and the vehicle will be unallocated.
  - If a CarChip will only be used in one vehicle, assign it to that vehicle.
  - If a CarChip will be used by only one driver, assign it to that driver. A CarChip assigned to a driver can be used in multiple vehicles.

11. Using the Software

You are now ready to start using DriveRight FMS.

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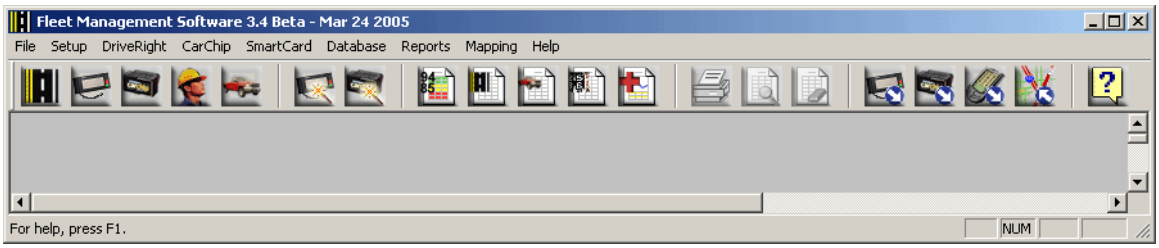
Tool Bar

To get information about an FMS menu command or tool bar icon, click on the command or icon in the illustration:



List of Toolbar Icons

Database Icons

View Trips Database

View DriveRight Database

View CarChip Database

View Drivers Database

View Vehicles Database

Add Device Icons

Add New DriveRight Wizard

Add New CarChip Wizard

Report Icons

Driver Performance Score Report

Trip Summary Report

Usage Report

Odometer Report

Accident Log Report

File Menu Command Icons

Print

Print Preview

Clear Screen

Data Download/Export Icons

Download DriveRight

Download CarChip

Download Palm

Export GPS Data to Mapping Software

Help Icon

Help Topics

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Quick Reference

FMS Quick Reference

Get More Information About:

Data Management
CarChip
DriveRight
Mapping

Data Management

Data Management Reference Menu

Database Backup Considerations

Active Database Size Recommendations

Backup

Restore

Export Menu

Import Menu

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Database Backup Considerations

If you have GPS-enabled DriveRights, you will rapidly accumulate a large amount of data in the GPS Table due to the frequency of GPS logging.

To avoid the database from becoming unmanageable, you can export the GPS Table alone more frequently than your normal backup interval, and delete the GPS data by using the Maintenance command. By doing this you still have trips data for your reports while at the same time limiting the database size.

Example:

1. Set the Automation Option (Preferences command in the Setup Menu) to backup every two (2) months and keep last three (3) months active in the database.
2. Suppose that you have some DriveRights with GPS data enabled. Your GPS Table will grow much more rapidly than the Trips Table. But you still want to keep the last three (3) months of trip data for reporting purposes.
3. Since DriveRight FMS does not support Backup of individual database tables, you can use the Export command to create individual backups of the GPS Table.
4. Refer to the Database Size Recommendations Table to determine how frequently you should Export the GPS Table. Once you determine the export frequency, you will need to manually repeat this process.
5. In this example, you want to keep one month of GPS data active in the database.
6. Go to the Export GPS command.
7. Enter a file name for the GPS export data similar to this: gps_10_apr_2003.txt.

Note: Be careful about naming the GPS export file so that you don't lose previously exported data.

9. Go to the Database > Maintenance > GPS command and delete all GPS data older than your export frequency from Step 5. In this example it is one month.

See also:

Active Database Size Recommendations

Preferences: Automation Options

Export Menu

Maintenance

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Active Database Size Recommendations

The following recommendations are based on tests and calculations made with these assumptions:

- 10 trips per day per vehicle
- Trip duration: 1 hour (10 hours driving time per day per vehicle)
- GPS data logged every 10 seconds

Note: If your fleet size exceeds the scenarios shown below, we recommend that you use a multi-user database.

Note: For multi-user databases, theoretically there is no fleet size limit. Still, we recommend that you backup data once a month, keeping only the amount of data required for reporting purposes in the active database, typically 3-6 months.

Recommendations Table

Scenario	Number of Vehicles	Amount of Active Data in Database	Remarks and Recommendations
No GPS	25	Up to 1 year	Backup data once a month for application performance. Using automation options you can set maximum of 1 year of data in the active database
	50	Up to 9 months	Backup data once a month for application performance. Using automation options you can set maximum of 9 months of data in the active database
	100	Up to 6 months	Backup data once a month for application performance. Using automation options you can set maximum of 6 months of data in the active database

MSDE with GPS	5	Up to 1 month	Backup data every month for application performance. Using automation options you can set maximum of 1 months of data in the active database
MS Access with GPS	10	Up to 1 month	Backup data every month for application performance. Using automation options you can set maximum of 1 months of data in the active database

See also:

Active Database Size Recommendations

Preferences: Automation Options

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Backup

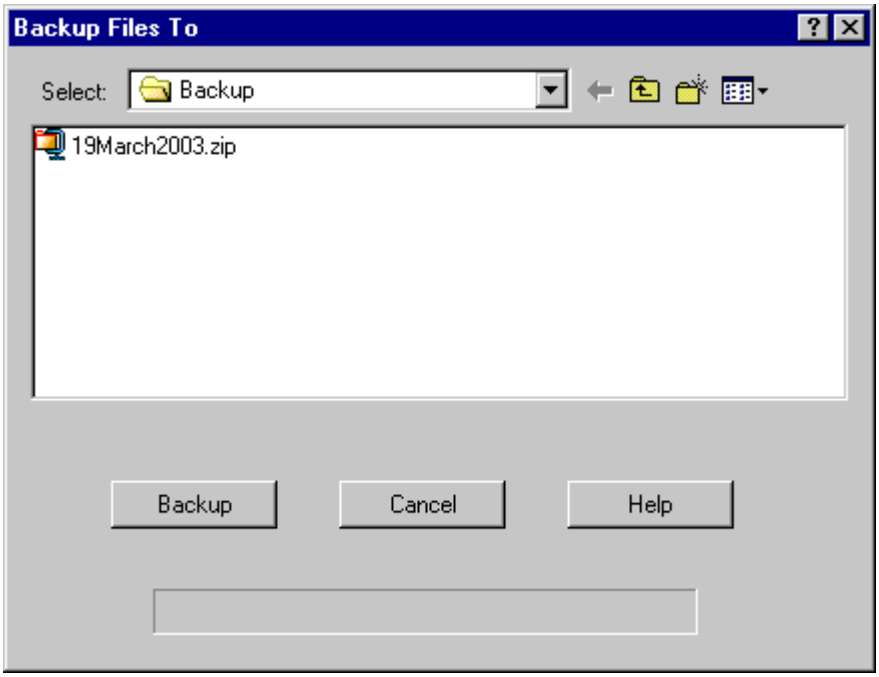
The Backup feature is used to archive old data as a zip file. The backup files are stored in the Backup sub-directory in the DriveRight FMS install directory. The Backup sub-directory is created the first time you back up your data.

The backup zip files are named based on the start and end dates chosen for the backup. For example, if you pick the dates between March 6, 2003 and March 27, 2003, the backup file will be named *6March2003_27March2003.zip*.

You can configure how much data to keep active after a backup by setting up your Automation Option preferences in the Setup menu. Limiting the amount of data in the active database helps prevent the database from growing into an unmanageable size.

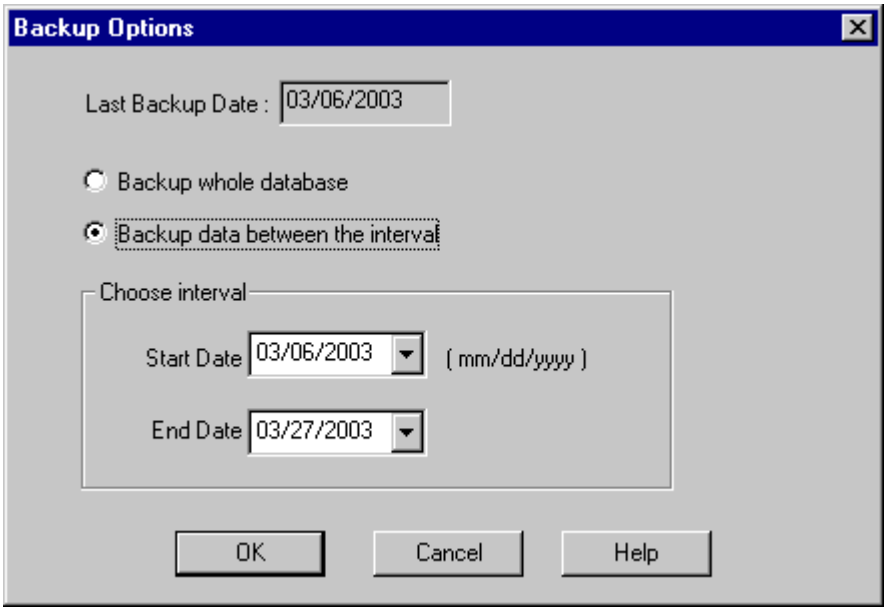
To backup data:

1. Click Backup in the File menu. The Backup Files To dialog box is displayed.



2. From the Backup Files To dialog box select the folder where the backup file will be written. The Backup Options dialog box is displayed.

Note: The Backup Options dialog box will not be displayed the first time you back up DriveRight data.



3. In the Backup Options dialog box check your last backup date and specify whether to backup the whole database or only those records falling within a specified time period. The start date will always be initialized to the last backup date.

4. Click OK to initiate the backup or click Cancel to exit the dialog box without backing up your database.

5. When the backup is finished, click OK to return to the program.

See Also:

Restore

Preferences: Automation Options

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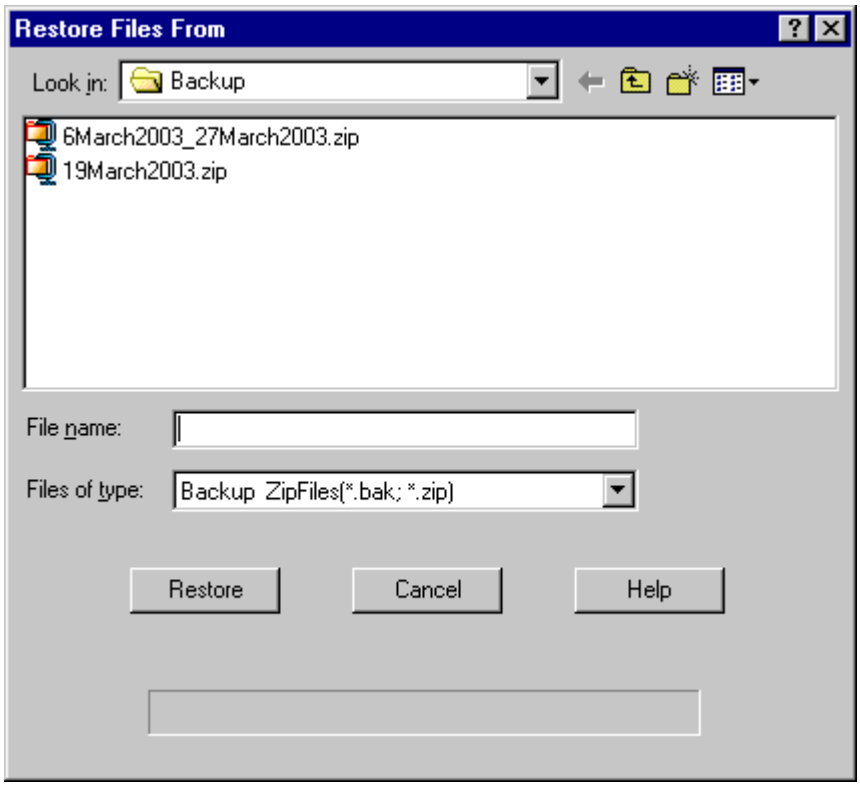
Restore

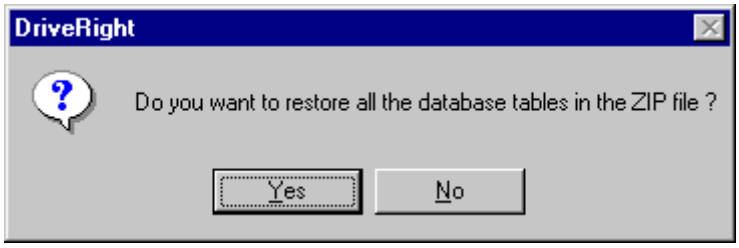
The Restore command is used to get a previously Backed up data back into the active database. In this process you can pick one or more tables to be restored.

To restore data:

1. Click Restore in the File menu. The Restore Files From dialog box is displayed.



2. From the Restored Files From dialog box select a single zip file to restore, and then click the Restore button. DriveRight FMS unzips the file and displays all the tables in the dialog, and displays the following dialog box:

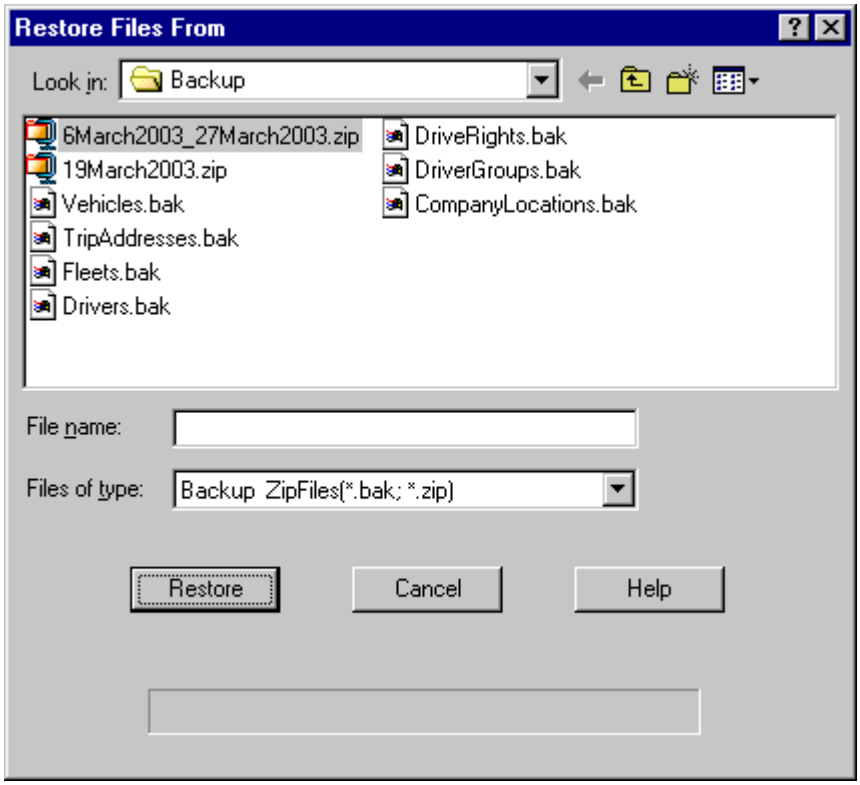


Note: You can only restore one zip file at a time.

Note: The backup file filename is based on the start and end dates chosen for the backup.

3. You can either restore all the database tables or restore individual database tables. Click Yes in the dialog box to restore all the tables. Click No to restore selected database tables.

4. If you are restoring selected database tables, select each table to be restored. Hold down the Control key on your keyboard to select multiple tables. When you have finished making your selection, click Restore to restore the tables or click Cancel to exit without restoring the tables.



5. When the files have been restored, click OK to return to the program.

See Also:

Backup

Back to File Menu

Export Menu

Use the export menu options to export DriveRight FMS data.

FTP Export - Use the FTP Export command to export database data to a remote site.

Export GPS to Mapping Software - Use the Export GPS to Mapping Software command to export GPS data in a format designed to be imported into mapping software.

Export Accidents to Mapping Software - Use the Export Accidents to Mapping Software command to export accident GPS data in a format designed to be imported into mapping software.

Other Export Commands - Use the other export commands to export the indicated type of data in a tab-delimited text file.

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Import Menu

Use the Import Menu options to import DriveRight database data into DriveRight.

Import: FTP Import

Import: Import Data From

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CarChip Quick Reference

CarChip Quick Reference

CarChip Considerations

Adding Drivers, Vehicles and CarChips

CarChip Considerations

CarChip Settings

Downloading CarChip

Downloading CarChip Guidelines

Download CarChip

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Adding Drivers, Vehicles and CarChips

Please refer to the following guidelines when adding new drivers, vehicles, and CarChips devices.

- A CarChip device must be assigned to either a vehicle or a driver.
- Unlike DriveRight devices, a CarChip device can be easily switched from vehicle to vehicle, as long as all the vehicles provide a supported OBDII port.
- If a CarChip is assigned to a vehicle, the default driver of that vehicle will appear as the driver on all downloaded data from that CarChip.
- If a CarChip is assigned to a driver, then all data downloaded from that CarChip will be associated with that driver and the vehicle will be listed as UNKNOWN VEHICLE.
- If you just want to add a CarChip and you don’t yet have a vehicle or driver to assign, you can select "UNKNOWN VEHICLE".
- Based on your specific situation, you should carefully consider the options before assigning a CarChip to either a vehicle or driver.
- The Add New CarChip command opens a wizard that will guide you through the process of adding CarChips. It will also allow you to add drivers and vehicles if they are not already in the database.

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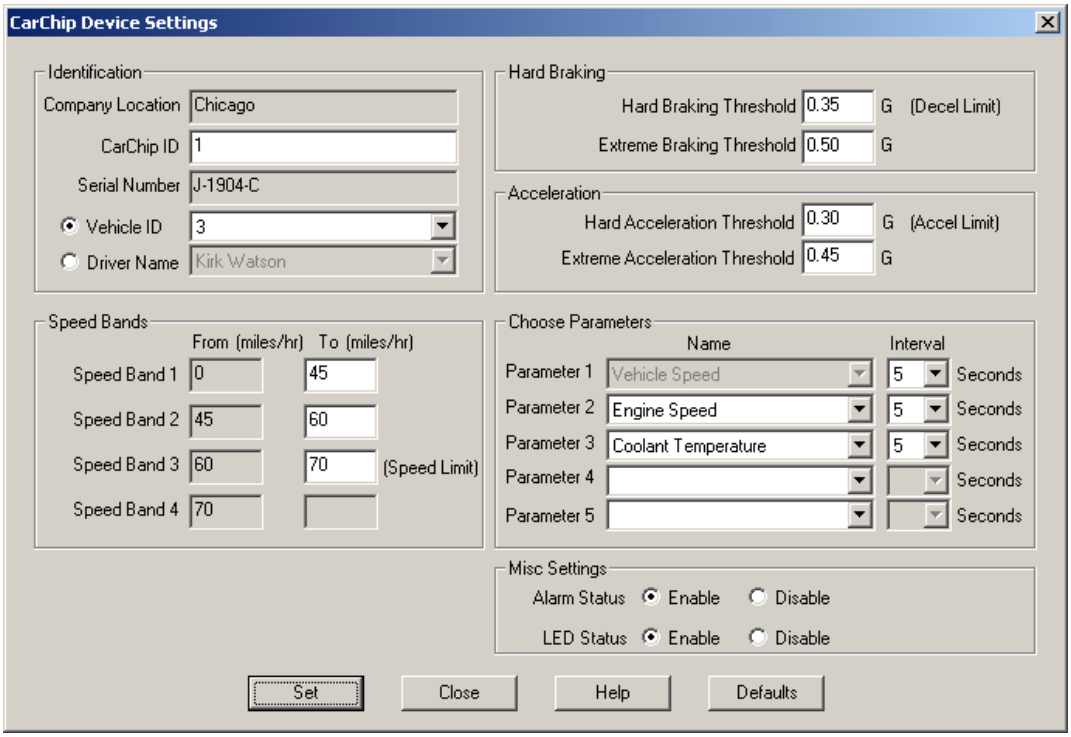
CarChip Considerations

- If both a CarChip device and DriveRight console are installed in the same vehicle, you will need to create two entries for the driver and two entries for the vehicle in the DriveRight FMS database. Otherwise you will see duplicate trip data in your DriveRight FMS reports.
- If you have multiple serial ports, you can connect CarChip to one serial port and DriveRight to another. If you do not have multiple serial ports we recommend you buy a serial switch box to switch between the two devices or a serial extension cord to make plugging and unplugging the download cables more convenient.
- If you are using both CarChip and DriveRight devices, make sure both types of devices use the same safety settings.
    - Speed Band 3 in CarChip should match Speed Limit in DriveRight.
    - Hard Braking in CarChip should match Decel Limit in DriveRight.
    - Hard Acceleration in CarChip should match Accel Limit in DriveRight.
- Unlike DriveRight, a CarChip can be assigned either to a vehicle or to a driver.

CarChip Settings

Use the CarChip Settings command in the CarChip Menu to quickly view all CarChip settings, to add a CarChip to the database or to edit CarChip settings.

1. Select CarChip Settings from the CarChip Menu. The CarChip Device Settings dialog box is displayed.



2. Make any desired changes. For more information on the CarChip settings, click on the links below:

   CarChip ID

   Hard Braking, Acceleration and Speed Bands

   Choose Parameters

   Miscellaneous Settings

Note: If you change the vehicle assigned to a CarChip, the vehicle table will also be changed to reflect the new assignment.

Note: If you assign a vehicle to a CarChip that had been previously assigned to a DriveRight device, the vehicle assignment for that DriveRight will be changed to "UNASSIGNED VEHICLE".

3. If necessary, click **Defaults** to change the CarChip Hard Braking, Acceleration, Speed Bands, and Engine Parameters to the DriveRight FMS CarChip default settings.

4. Click **OK** to save the changes or click Cancel to exit without saving.

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Downloading CarChip Guidelines

You cannot download a CarChip device if any of the following conditions exist:

- CarChip not present in the database.
- CarChip not assigned to a Vehicle or to a Driver.
- Unless every thing is configured properly, you cannot download from the device.

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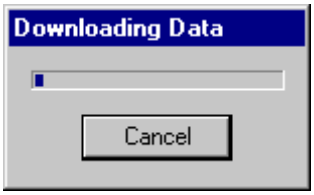
Download CarChip

Use this command to download data from your CarChip data logger into your computer.

To download CarChip data:

1. Connect your CarChip device to your computer.
2. Choose Download CarChip from the CarChip menu. The Downloading Data dialog box appears.



2. The dialog box disappears when the download is complete.
3. Choose Cancel only if you wish to abort the download before it is finished.

See also:

Downloading CarChip Guidelines

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DriveRight Quick Reference

DriveRight Quick Reference

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Setup GPS

Downloading DriveRight

Downloading Requirements

Download DriveRight

Download Palm

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Adding Drivers, Vehicles and DriveRights

Please refer to the following guidelines when adding new drivers, vehicles, and DriveRight devices.

- The Add New DriveRight command opens a wizard that will guide you through the process of adding DriveRights. It will also allow you to add drivers and vehicles if they are not already in the database.
- If you are adding a new driver, vehicle, and DriveRight, you should add the driver first, the vehicle second, and the DriveRight last.
- If you just want to add a vehicle and you don’t yet have a driver to assign, you can select "UNALLOCATED DRIVER".
- If you just want to add a DriveRight and you don’t yet have a vehicle to assign, you can select "UNKNOWN VEHICLE".

Important: If you selected either a UNALLOCATED DRIVER or UNKNOWN VEHICLE, you should change them to real entries before actually using the DriveRight in the field and downloading it. Otherwise, the data will be assigned to the wrong entities and will affect the results when you run Reports, etc.

See also:

Add New DriveRight

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DriveRight Settings

The following commands allow you to view and or change the settings on a DriveRight device:

View/Set
Restore
Setup GPS
Verify DriveRight Calibration

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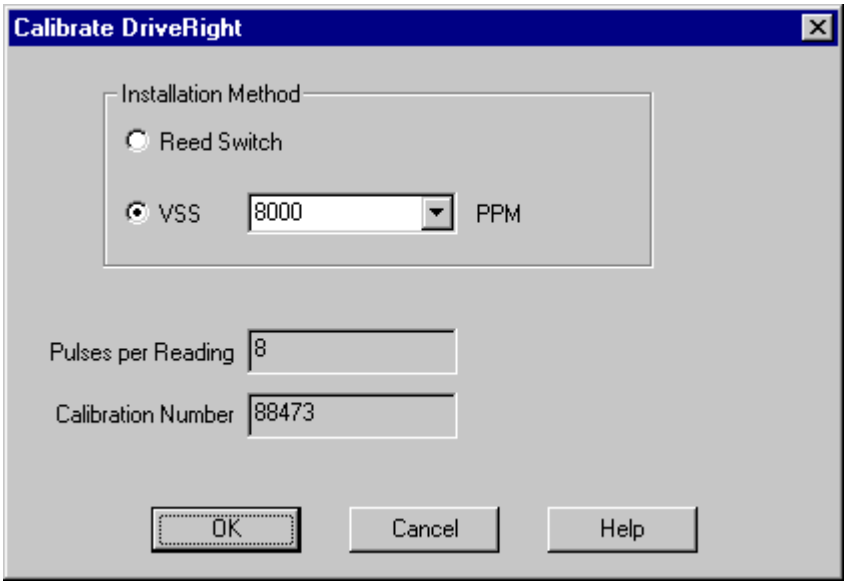
DriveRight Settings: Verify DriveRight Calibration

The Calibrate DriveRight dialog box allows you to verify DriveRight calibration settings.

- The Calibration Setting Dialog box shows two installation methods. VSS (vehicle speed sensor) installation and Reed Switch.

To verify the DriveRight console calibration:

1. Click on DriveRight Settings from the DriveRight Menu.
2. Select Verify DriveRight Calibration from the drop-down menu. A DriveRight Calibration Message dialog box is displayed.
3. Click OK, Set or Cancel to continue, depending on the displayed message. The Calibrate DriveRight dialog box is displayed.



3. If the DriveRight is using a reed switch for the speed sensor, make sure the Installation Method indicates Reed Switch.

- Reed Switch: If the DriveRight device has been previously calibrated in the vehicle or through the software, then DriveRight FMS automatically calculates the Calibration number for your vehicle. We strongly recommend that you do not change these values. The PPR for a reed switch is always “1”.

4. If the DriveRight is using the vehicle's VSS for the speed sensor, make sure the Installation Method indicates VSS.

- VSS: If the DriveRight device has been previously calibrated in the vehicle or through the software, then DriveRight FMS automatically calculates the VSS PPM (Pulses Per Mile), PPR (pulses per reading) and Calibration number for your vehicle. Otherwise you must specify the PPM for your vehicle. Depending on your selection, software calculates the PPR (pulses per reading) and calibration values and fills the edit boxes with them.

5. If you are using the VSS, you can adjust the pulses per mile (PPM) from the drop down list or enter the PPM in the edit box if necessary. We recommend that you not change these settings if the DriveRight has been previously calibrated.

6. Click OK to save changes to the calibration, or click cancel to exit without saving changes.

Back to DriveRight Menu | DriveRight Settings

Home | Getting Started | Quick Reference | Menu Commands | Troubleshooting

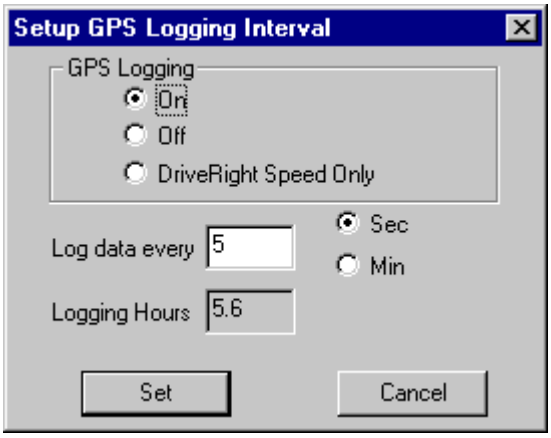
DriveRight Settings: Setup GPS

Use this command to view and/or modify the GPS settings on a DriveRight device.

Note: This command only works with the DriveRight 600.

To setup GPS logging:

1. Select DriveRight Settings from the DriveRight Menu.
2. Select Setup GPS from the DriveRight Settings drop down list. The Setup GPS Logging Interval dialog box is displayed.



3. Set GPS Logging to On, Off, or DriveRight Speed Only.

- Select On to enable GPS logging.
- Select Off to disable GPS logging.
- Select DriveRight Speed Only to log the DriveRight speed without the GPS coordinates. No GPS unit is required to enable this option.

4. Enter the desired logging interval and indicate a time unit of either seconds (Sec) or minutes (Min). Logging Hours indicates how much data can be stored at the selected interval.
5. Click Set to save the changes or click Cancel to exit without changing the settings

Back to DriveRight Menu | DriveRight Settings

Home | Getting Started | Quick Reference | Menu Commands | Troubleshooting

Downloading Requirements

You cannot download a DriveRight if any of the following conditions exist:

- DriveRight not present in the database.
- DriveRight not assigned to a Vehicle.

Note: The same conditions also apply to Host Mode and Palm Download.

Back to Quick Reference Menu

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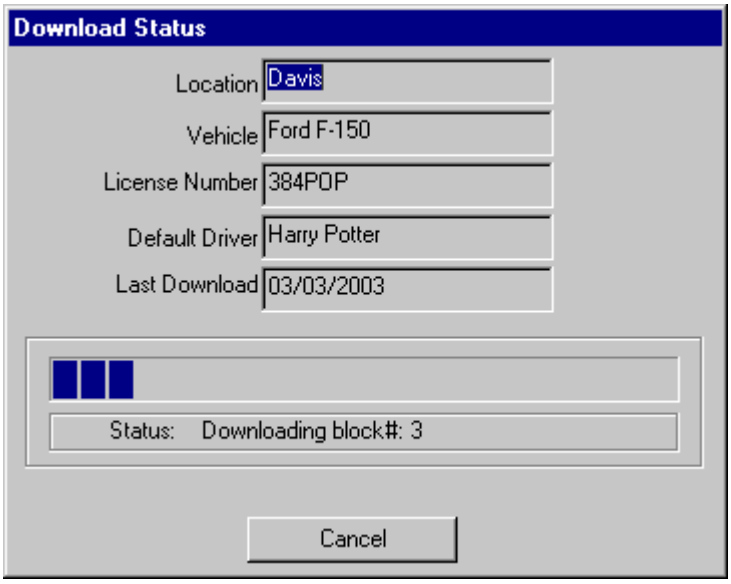
Download DriveRight

The Download DriveRight command transfers trip data from the connected DriveRight device to the DriveRight database.

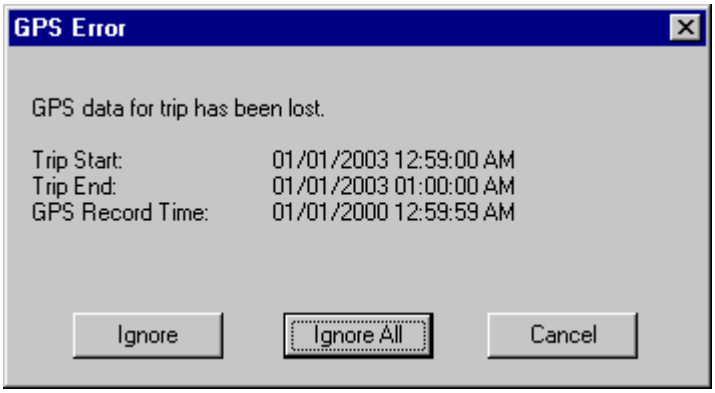
To download your DriveRight:

1. Connect your DriveRight console to your computer and make sure the DriveRight is "awake". Press the MODE key if there is nothing on the LCD display.
2. Select Download DriveRight in the DriveRight Menu. The following Download Status box is displayed:

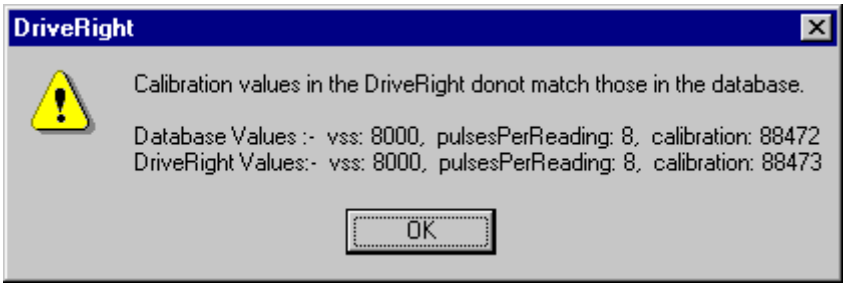
Note: You will see the Cancel button only if you are downloading a DriveRight 600.



3. You may lose GPS data for earlier trips if the DriveRight console is not downloaded for an extended period of time. In this case you will see a warning message similar to this:



4. If the calibration in the DriveRight console does not match the calibration in the database, you will see a warning message similar to this:



5. When the data has finished downloading the following dialog box is displayed:

6. Press Enter or click OK to continue.

See also:

Downloading DriveRight Guidelines

Back to DriveRight Menu

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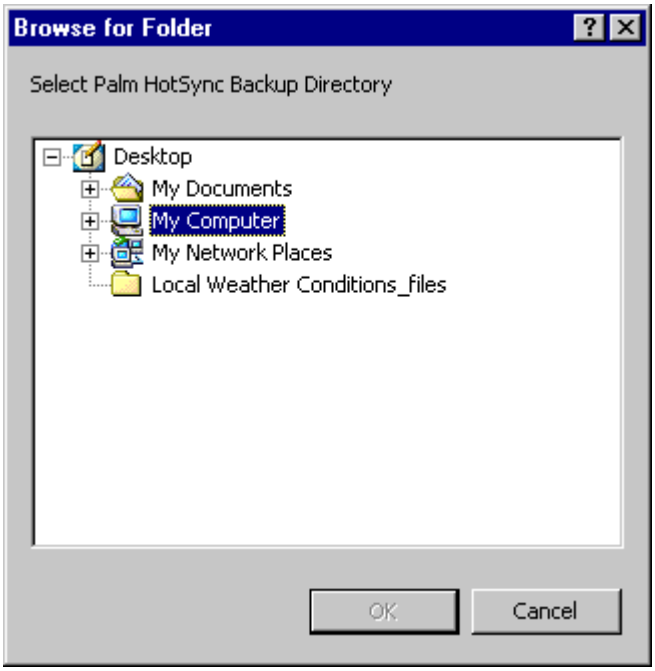
Download Palm

DriveRight 3.0 offers a new feature to download data from multiple DriveRight devices from a Palm device. You will need the DriveRight Palm Download Kit, #8181, in order to use this command.

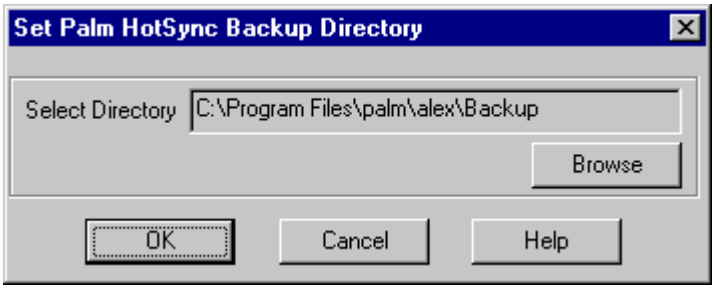
Note: To download a DriveRight console data into the software using Palm Download, the DriveRight should be present in the database. If you try to download a DriveRight which is not present in the database, you will get an error message.

To download your Palm:

1. Select Download Palm in the DriveRight Menu.
2. The first time you download a Palm, the following dialog box is displayed. Select the directory which contains your Palm backup databases and click OK.

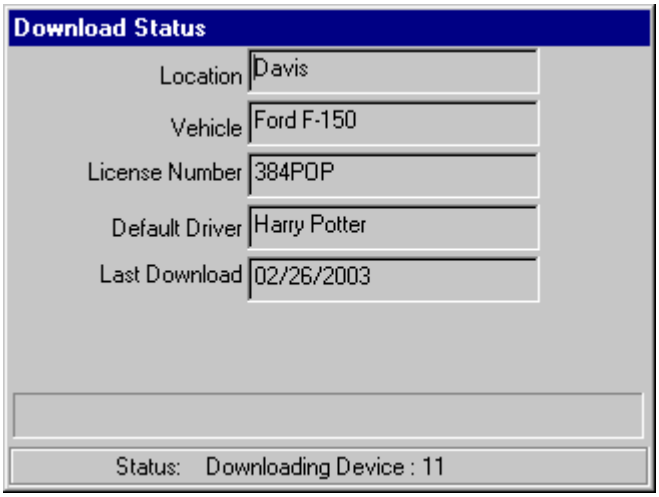


3. Each time after the first time, when you use the Download Palm command, the following dialog box appears showing the selected Palm backup directory.



4. Click Browse to select a different backup directory, click OK to use this displayed directory, or click Cancel to exit.

5. If you click OK the Download Status dialog box is displayed.



6. When the data has finished downloading the Palm Download, Download Successful dialog box is displayed:

7. Click OK to continue.

Back to DriveRight Menu

Home | Getting Started | Quick Reference | Menu Commands | Troubleshooting

Database Menu

Use the Database Menu options to open individual database tables. In the database table you can view and print records. You can also add, edit or delete records.

Caution: Take extra care before deleting Company Location, DriveRight, CarChip, Driver or Vehicle records.

The following Database Menu options are available:

Company Locations
DriveRights
CarChips
Driver Groups
Drivers
Fleets
Vehicles
Trips
Accident Logs
Tamper Logs
Trip Addresses
Days
Download Dates
GPS
Odometer Logs
Safety Score
Trouble Codes
Readiness Codes

Printed Documentation

Maintenance

Back to Menu Commands

Home | Getting Started | Quick Reference | Menu Commands | Troubleshooting

Reports Menu

DriveRight can produce a number of useful reports. The reports can be displayed on the screen or printed.

The following reports are available:

Accident Log Report
Driver Safety Score
Driver Safety Score Summary
Exception Reports
Database Reports
Usage Report
Trip Summary Report
Tamper Logs Report
Odometer Report
Relationship Report
Days Since Last Download

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Mapping Quick Reference Menu

Mapping Quick Reference Menu

The integrated MapPoint ActiveX control in DriveRight FMS allows you to easily generate maps from DriveRight GPS data. DriveRight FMS can also export GPS data in a tab-delimited file for use by third-party mapping software.

How to Create Maps
How to View Maps
Mapping Menu

DriveRight FMS Mapping Requirements

Back to FMS Quick Reference Menu | Mapping Menu

Home | Getting Started | Quick Reference | Menu Commands | Troubleshooting

How to Create Maps

How to Create Maps

DriveRight FMS can create three different maps from your GPS data. You can also export GPS data for use in third-party mapping software such as MS MapPoint.

Creating a Trip Map

Creating a Day Map

Creating an Accident Log Map

Export: GPS to Mapping Software

Export: Accidents to Mapping Software

Import GPS Data Into MapPoint

Back to FMS Quick Reference | Mapping Quick Reference

Home | Getting Started | Quick Reference | Menu Commands | Troubleshooting

Creating a Trip Map

Click the Map button the Trips browse window to create a map from a trip record.

To create a Trip Map:

1. Select the Trips command in the Database menu. The Filter For Trips dialog box is displayed.
2. Select your desired Trips filter options.
3. Click **OK** to show the Trips browse window.
4. Highlight a trip record then click **Map** to generate a Trip Mapping Report for that trip. The map is displayed in the DriveRight FMS program window.

See also:

Viewing Trip Maps

Map Navigation

Viewing GPS Plot Information

Back to Mapping Overview

Home | Getting Started | Quick Reference | Menu Commands | Troubleshooting

Creating a Day Map

Click the Map button the Days browse window to create a map for all trips taken on the same day.

To create a Day Map:

1. Click **Days** in the Database menu. The Filter for Days is displayed.
2. Select your desired filter options.
3. Click **OK** to show the Days browse window.

2. Click **Map** to generate the Day Mapping Report. The report is displayed in the DriveRight FMS program window.

See also:

Viewing Day Maps

Map Navigation

Back to Mapping Overview

Home | Getting Started | Quick Reference | Menu Commands | Troubleshooting

Creating an Accident Log Map

You can create an Accident Log Report Map by selecting the Output to: Map or Output to: Both Map and Excel options when you create the Accident Log Report.

To create a Accident Log Map:

1. Select the **Accident Log** command in the Reports menu. The Filter for Accident Logs is displayed.
2. Select the desired Accident Log filter options, being sure to select **Map** or **Both Map and Excel** for the report output.
3. Click **OK** to create the Accident Log Mapping Report.

See also:

Viewing Accident Log Maps

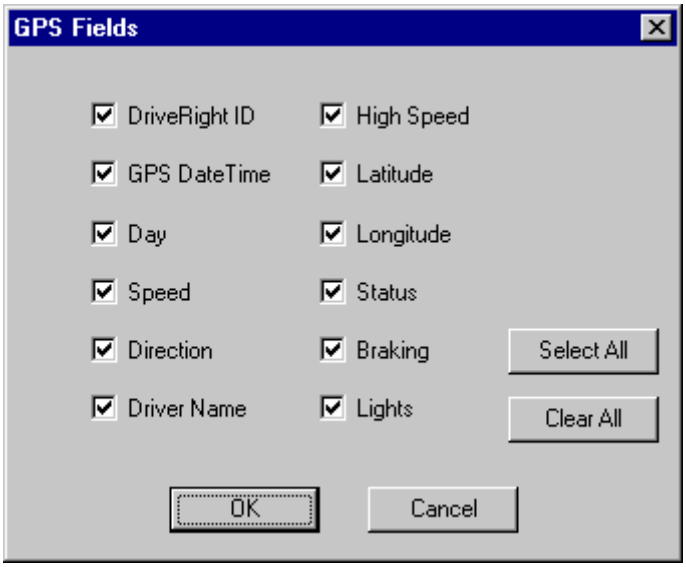
Back to Mapping Overview

Home | Getting Started | Quick Reference | Menu Commands | Troubleshooting

Export: GPS to Mapping Software

To export GPS data:

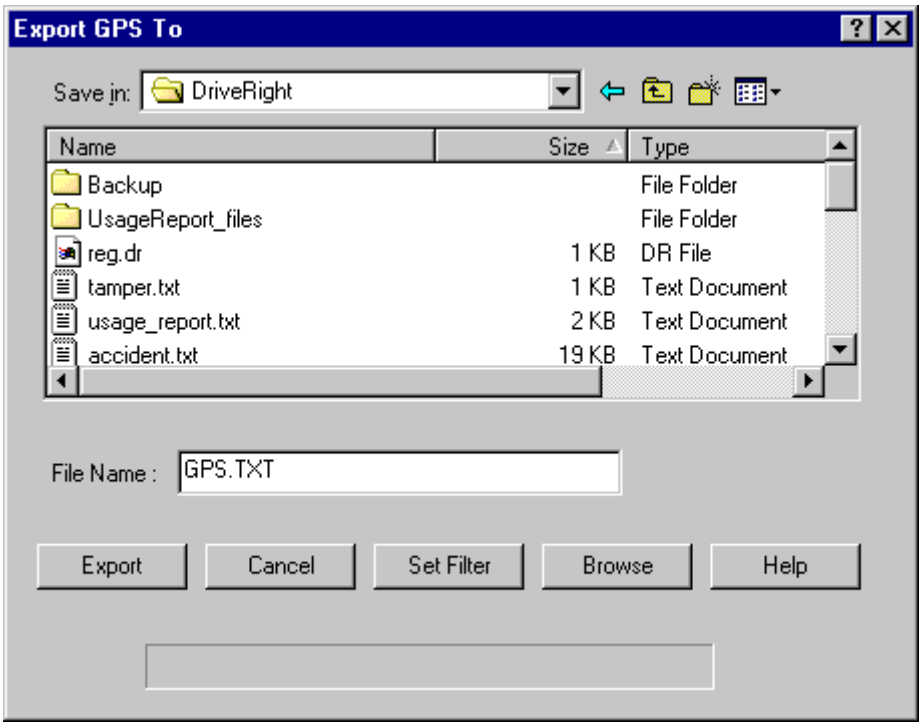
1. Select Export in the File Menu.
2. Select GPS to Mapping Software in the drop-down Export menu. The GPS Fields dialog box is displayed.



3. Only the checked GPS fields will be exported. Click on Select All to check all fields. Click on Clear all to clear all fields. Click in the box for each field to toggle the check on and off.

4. Note: These key fields should always be selected: GPS DateTime, Speed, High Speed, Latitude and Longitude.

5. Click OK in the GPS fields box to continue, click cancel to exit. If you click OK, the Export GPS To dialog box is displayed.



3. The default file name is GPS.TXT and the default directory is the DriveRight FMS install directory. You can edit or change the file name directly in the text box. You can also change the directory in which the exported GPS data file will be saved.

4. Click the "Set Filter" button to narrow the selection of GPS data to be exported.

5. Click the Browse button to view the GPS data before you export it.

6. Press OK when you are ready to export the GPS data or click Cancel to exit without exporting data. If you click OK, the exported GPS data will be saved in a file ready to be imported into your mapping software.

See also:

Import GPS Data Into MapPoint

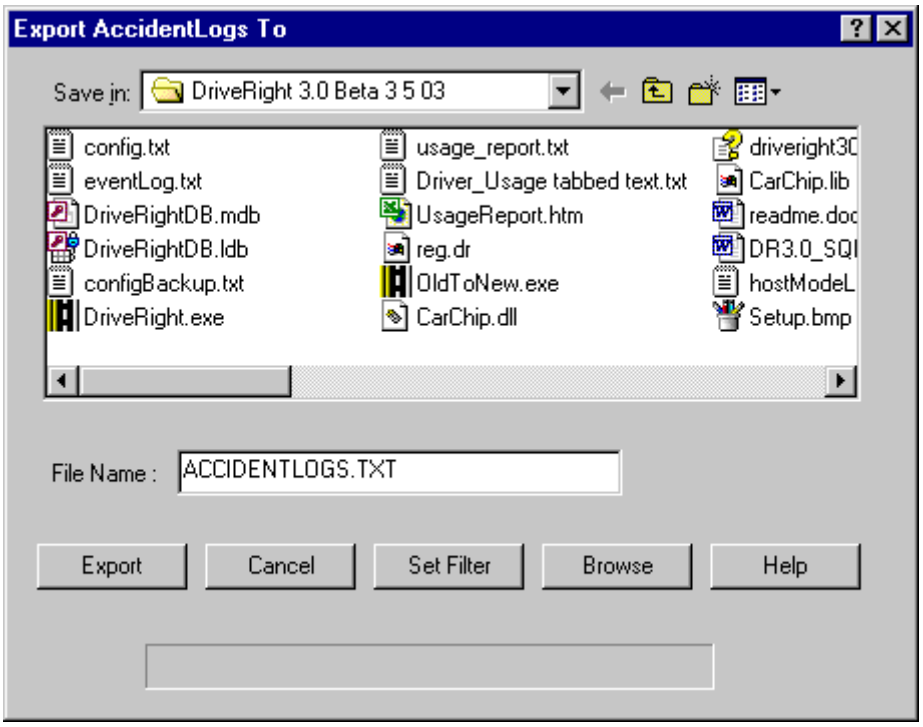
Back to File Menu | Export Menu

Home | Getting Started | Quick Reference | Menu Commands | Troubleshooting

Export: Accidents to Mapping Software

To export accident log data:

1. Select Accident to Mapping Software from the Export command in the File Menu. The Export Accidentlogs To dialog box is displayed.



2. Select the file directory in which to save the accident log files.
3. Verify the file name for the accident log file. You can edit the name in the dialog box if desired.
4. Click Export to create the accident log data file or click Cancel to exit. If you click OK, the exported Accident Log data will be saved in a file ready to be imported into your mapping software.

To import data into MapPoint:

1. Start the MapPoint application.
2. Select Import Data Wizard from the Data pull down menu.
3. Using the File Dialog find select the ACCIDENTLOGS.TXT file and click on Open.
4. "Tab" should be selected to separate the data. Click Next.

5. All the fields you exported will appear in the next dialog. Column headings are included and should be detected by the program. All the columns should have <Other Data> as their data type except Lat and Long. Check to make sure the Lat and Long were detected correctly. If they are not, correct them. Click Finish.
6. Choose Multiple Symbol and click Next. These instructions show you how to color code accident log points by speed at T0. T0 is the middle point of the accident log.
7. In "Select the data filed or column to map" list, select time_TO. In "Divide the data you chose above by" list, select <None>. In "Show the data by" list, select Latitude & Longitude. Click Next.
8. Enter the speed divisions you want to use and the color for each division.
9. Click Finish to plot the points.
10. In the left frame, right click on "time_T0 by Latitude & Longitude". Select "Properties". Open the Balloon tab and select time_T0, accidentDateTime and any other fields you want to view.
11. Zoom in enough to see individual points, right click on a point, and pick "Show Information", to look at data for that particular point.
12. MapPoint allows you to navigate around on the map pretty well. Some useful keystrokes are '+' to zoom in and '-' to zoom out. Also, you can draw a box around an area and then click in it to zoom into it. You can scroll the map using your mouse by just positioning the mouse cursor on the side of the map you want to scroll into.

Back to File Menu | Export Menu

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Import GPS Data Into MapPoint

Exported GPS Data can be easily importing into MS MapPoint using the MapPoint Import Data Wizard.

To import GPS data into MapPoint:

1. Start the MapPoint application.
2. Select Import Data Wizard from the Data pull down menu.
3. Using the File Dialog find select the GPS.TXT file and click on Open.
4. "Tab" should be selected to separate the data. Click Next.
5. All the fields you exported will appear in the next dialog. Column headings are included and should be detected by the program. All the columns should have <Other Data> as their data type except Lat and Long. Check to make sure the Lat and Long were detected correctly. If they are not, correct them. Click Finish.
6. Choose Multiple Symbol and click Next. These instructions show you how to color code accident log points by speed at T0. T0 is the middle point of the accident log.
7. In "Select the data filed or column to map" list, select highSpeed. In "Divide the data you chose above by" list, select <None>. In "Show the data by" list, select Latitude & Longitude. Click Next.
8. Enter the speed divisions you want to use and the color for each division.
9. Click Finish to plot the points.
10. In the left frame, right click on "highSpeed by Latitude & Longitude". Select "Properties". Open the Balloon tab and select gpsDateTime, highSpeed and any other fields you want to view.
11. Zoom in enough to see individual points, right click on a point, and pick "Show Information", to look at data for that particular point.

12. MapPoint allows you to navigate around on the map pretty well. Some useful keystrokes are '+' to zoom in and '-' to zoom out. Also, you can draw a box around an area and then click in it to zoom into it. You can scroll the map using your mouse by just positioning the mouse cursor on the side of the map you want to scroll into.

See also:

Export: GPS to Mapping Software

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How to View Maps

How to View Maps

Viewing Trip Maps

Viewing Day Maps

Viewing Accident Log Maps

Back to FMS Quick Reference | Mapping Quick Reference

Home | Getting Started | Quick Reference | Menu Commands | Troubleshooting

Viewing Trip Maps

The following topics will help you view and understand Trip Maps.

Trip Map Features

Map Navigation

Viewing GPS Plot Information

Back to Mapping Quick Reference Menu | How to View Maps

Home | Getting Started | Quick Reference | Menu Commands | Troubleshooting

Viewing Day Maps

The following topics will help you view and understand Day Maps:

Day Map Features

Map Navigation

Viewing GPS Plot Information

Back to Mapping Quick Reference Menu | How to View Maps

Home | Getting Started | Quick Reference | Menu Commands | Troubleshooting

Viewing Accident Log Maps

The following topics will help you view and understand Accident Log Maps:

Accident Log Map Features
Map Navigation
Viewing GPS Plot Information

Back to Mapping Quick Reference Menu | How to View Maps

Home | Getting Started | Quick Reference | Menu Commands | Troubleshooting

Mapping Menu

Note: DriveRight FMS Mapping requires Microsoft MapPoint.

The following commands are available in the Mapping Menu:

Open Map
Save Map
E-Mail Map
MapPoint Version
Set Speed Range

See also:
Mapping Quick Reference Menu
DriveRight FMS Mapping Requirements

Back to Menu Commands

Home | Getting Started | Quick Reference | Menu Commands | Troubleshooting

DriveRight FMS Mapping Requirements

The following equipment and software are required to use DriveRight FMS mapping functions:

- DriveRight 600
- DriveRight GPS Module
- Microsoft MapPoint 2002 or MapPoint 2004
- In addition to the DriveRight FMS 3.2 system requirements, Microsoft recommends a minimum of 64 MB of memory to run MapPoint.
- MS MapPoint or MapPoint Control run-time must be installed on the computer running the DriveRight FMS.

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Menu Commands

Menu Commands Menu

The following commands are available in the Main Menu:

File Menu
Setup Menu
DriveRight Menu
CarChip Menu
Database Menu
Reports Menu
Mapping Menu
Help Menu

Back to Home

Home | Getting Started | Quick Reference | Menu Commands | Troubleshooting

File Menu

File Menu

The following commands are available in the File Menu:

Backup
Restore
Import
Export
Print
Print Preview
Print Setup
Clear Screen
Exit

Back to Menu Commands

Backup

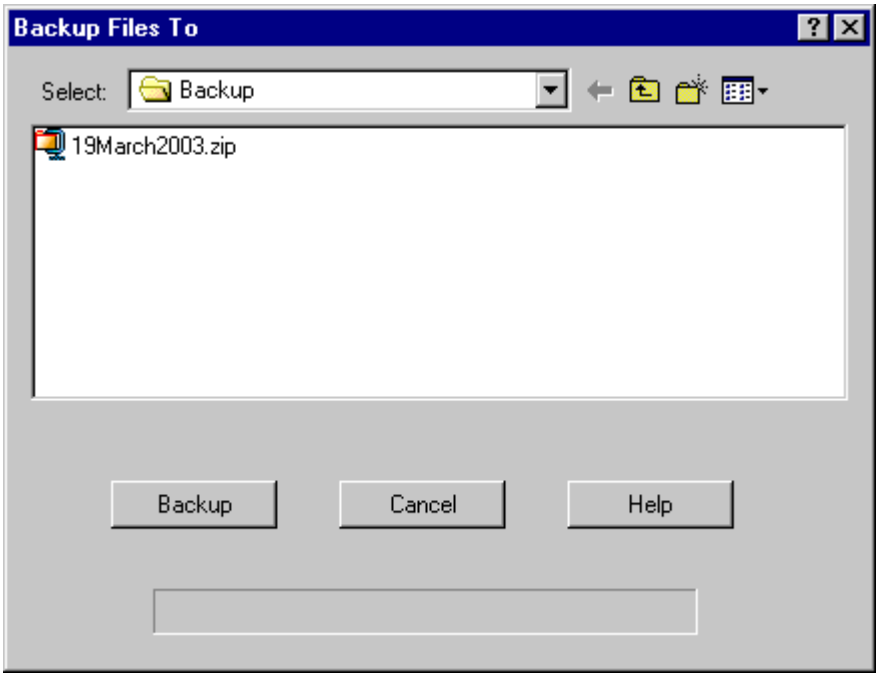
The Backup feature is used to archive old data as a zip file. The backup files are stored in the Backup sub-directory in the DriveRight FMS install directory. The Backup sub-directory is created the first time you back up your data.

The backup zip files are named based on the start and end dates chosen for the backup. For example, if you pick the dates between March 6, 2003 and March 27, 2003, the backup file will be named *6March2003_27March2003.zip*.

You can configure how much data to keep active after a backup by setting up your Automation Option preferences in the Setup menu. Limiting the amount of data in the active database helps prevent the database from growing into an unmanageable size.

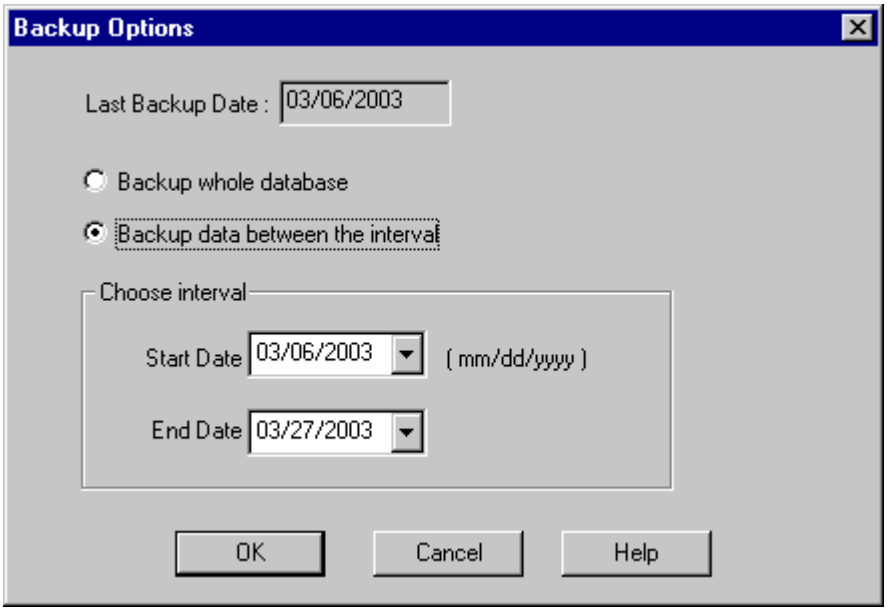
To backup data:

1. Click Backup in the File menu. The Backup Files To dialog box is displayed.



2. From the Backup Files To dialog box select the folder where the backup file will be written. The Backup Options dialog box is displayed.

Note: The Backup Options dialog box will not be displayed the first time you back up DriveRight data.



3. In the Backup Options dialog box check your last backup date and specify whether to backup the whole database or only those records falling within a specified time period. The start date will always be initialized to the last backup date.
4. Click OK to initiate the backup or click Cancel to exit the dialog box without backing up your database.
5. When the backup is finished, click OK to return to the program.

See Also:

Restore

Preferences: Automation Options

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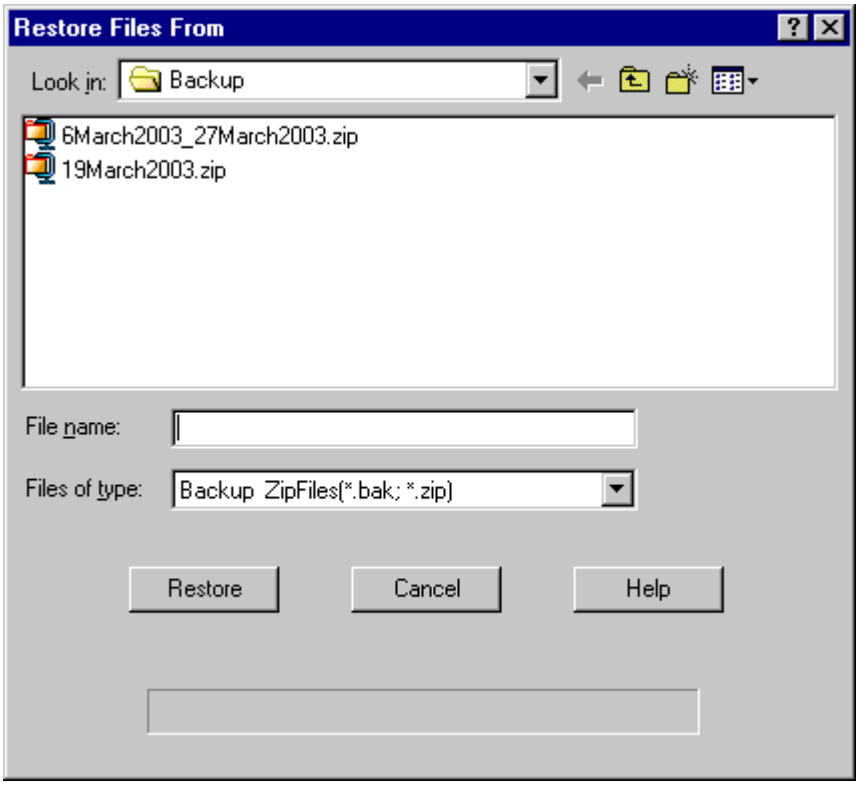
Restore

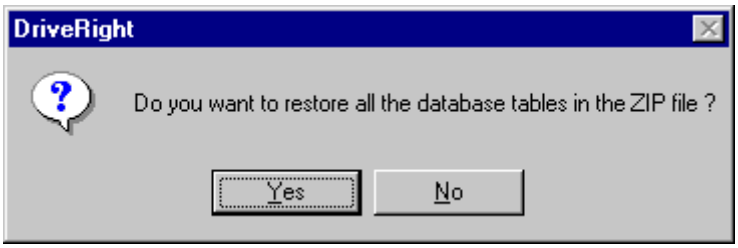
The Restore command is used to get a previously Backed up data back into the active database. In this process you can pick one or more tables to be restored.

To restore data:

1. Click Restore in the File menu. The Restore Files From dialog box is displayed.



2. From the Restored Files From dialog box select a single zip file to restore, and then click the Restore button. DriveRight FMS unzips the file and displays all the tables in the dialog, and displays the following dialog box:

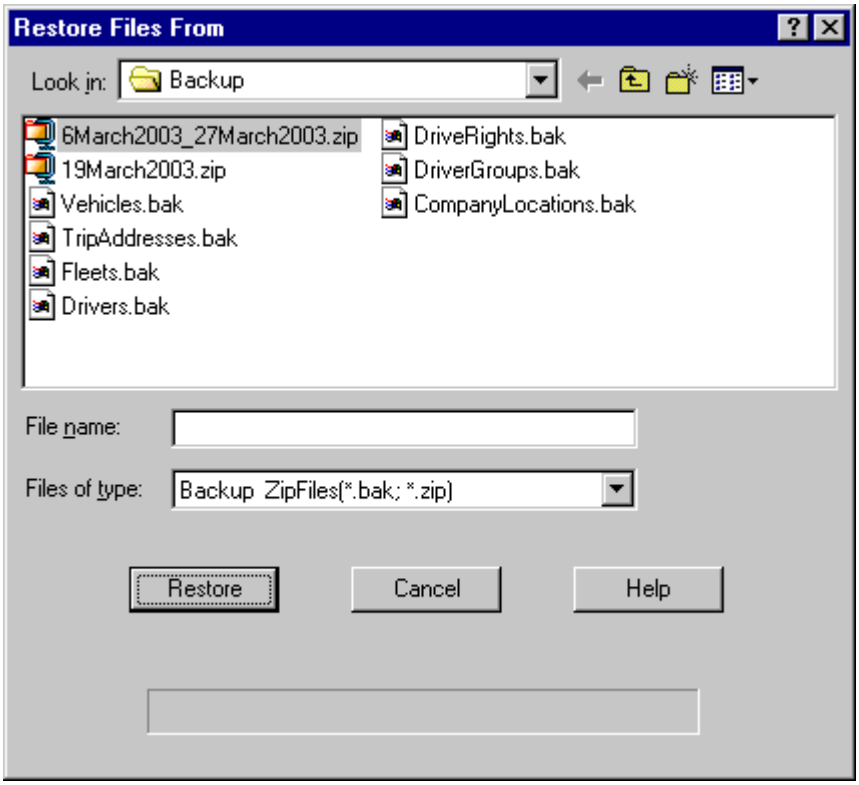


Note: You can only restore one zip file at a time.

Note: The backup file filename is based on the start and end dates chosen for the backup.

3. You can either restore all the database tables or restore individual database tables. Click Yes in the dialog box to restore all the tables. Click No to restore selected database tables.

4. If you are restoring selected database tables, select each table to be restored. Hold down the Control key on your keyboard to select multiple tables. When you have finished making your selection, click Restore to restore the tables or click Cancel to exit without restoring the tables.



5. When the files have been restored, click OK to return to the program.

See Also:

Backup

Back to File Menu

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Import Menu

Import Menu

Use the Import Menu options to import DriveRight database data into DriveRight.

Import: FTP Import

Import: Import Data From

Back to File Menu

Home | Getting Started | Quick Reference | Menu Commands | Troubleshooting

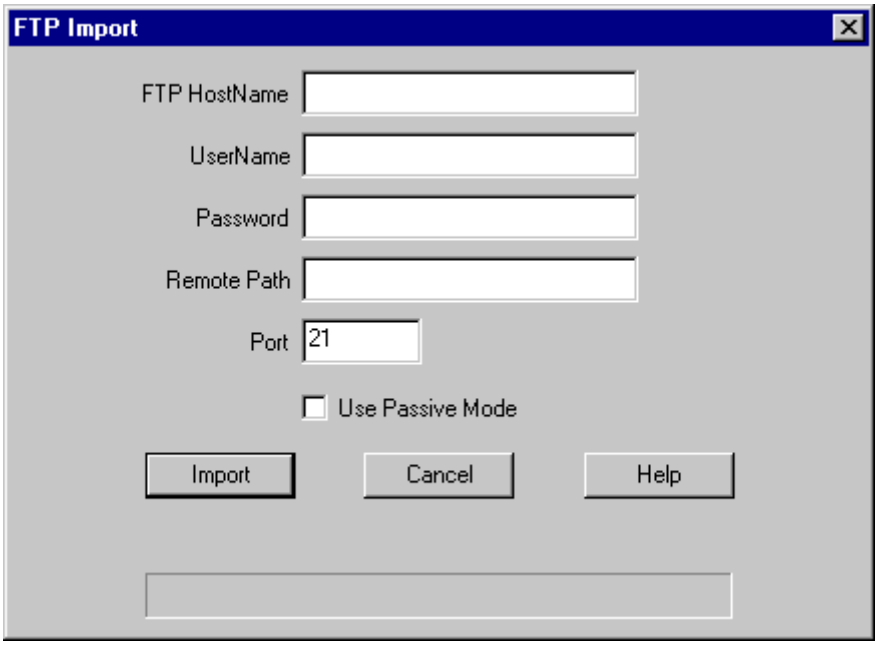
Import: FTP Import

FTP (File Transfer Protocol) Import allows you to import DriveRight data from a remote site. Use this procedure for FTP Import only. Use the Import: Other Import Commands procedure for all other import commands.

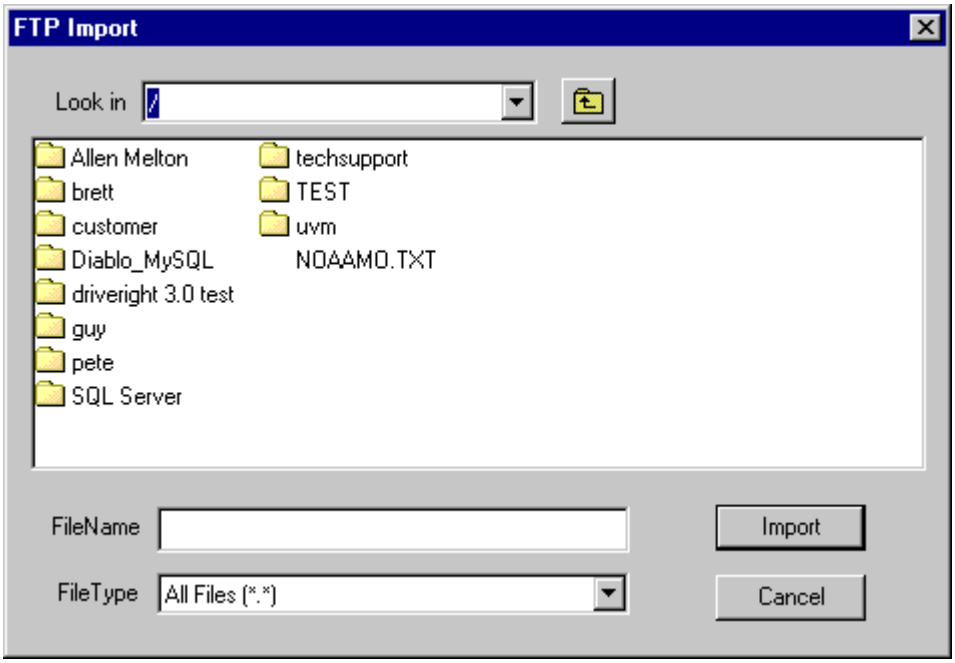
Note: Before you start this operation, contact your systems administrator for your FTP account information.

To use FTP Import:

1. Select the Import command in the File Menu.
2. Select FTP Import from the Import drop-down menu. The FTP Import dialog box is displayed.



3. In the FTP HostName edit box, type the name of the FTP server that you want to import the database tables from. eg: toolbox.davisnet.com
4. In order to access the FTP site you must have a user account on the FTP site. Enter your user name and password in the edit boxes.
5. In the Remote Path edit box, you can enter a specific directory path in the FTP server.
6. Default port for the FTP site is 21. Use the default port unless the FTP site listens on a different port.
7. Default connection to the FTP site is active mode. Some FTP sites allow only passive mode connections.(check the passive mode check box in that case). For details, contact your system administrator.
8. Click the Import button. The following FTP Import dialog box appears, which displays the directories and files located at the specified location on the FTP server.



9. Locate and select the sub-directory named for the DriveRight FMS location from which you want to import the database tables. Click Import to open the directory.

10. Locate and select the zip file containing the database tables you wish to import. Click Import to import the tables.

11. When the files have been successfully imported, click OK to return to the program.

Note: You can quit at anytime during importing by clicking the Cancel button.

See also:

Import: Other Import Commands

Back to File Menu | Import Menu

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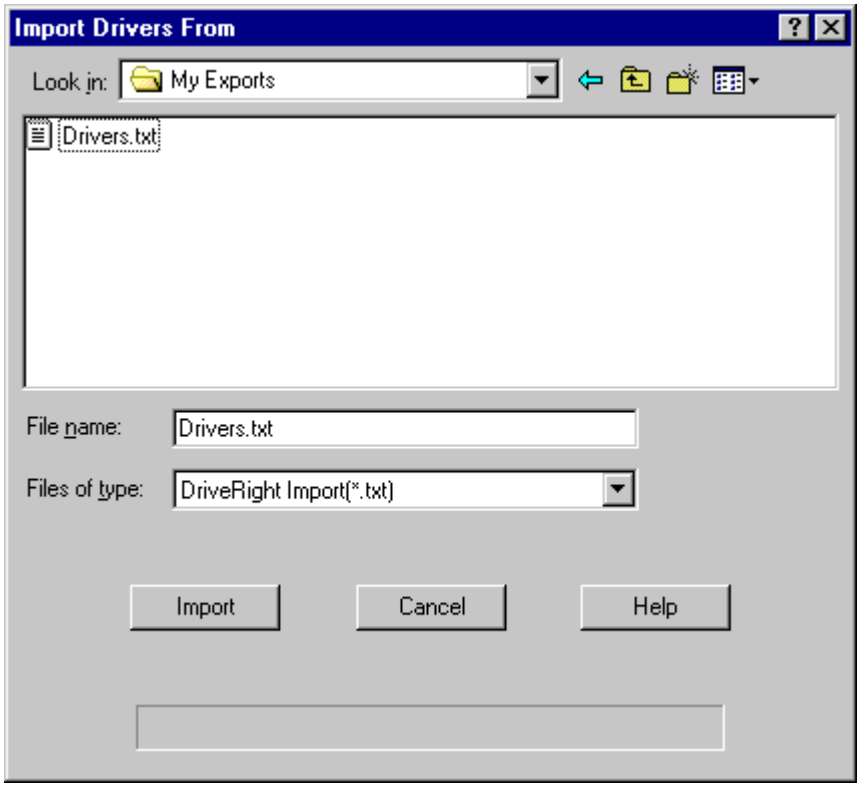
Import: Import Data From

Use the Import *tables* command to import individual DriveRight Tables into your database. This is the procedure for all import commands except FTP Import.

To import data:

1. Select Import in the File Menu.
2. Select the table you wish to import (Drivers, Vehicles, Trips, etc.) from the list.
3. When the Import dialog box appears, go to the directory where the file to be imported are located. Select the file to be imported and click Import to import the data or click Cancel to exit without importing.



See also

Import: FTP Import

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Export Menu

Export Menu

Use the export menu options to export DriveRight FMS data.

FTP Export - Use the FTP Export command to export database data to a remote site.

Export GPS to Mapping Software - Use the Export GPS to Mapping Software command to export GPS data in a format designed to be imported into mapping software.

Export Accidents to Mapping Software - Use the Export Accidents to Mapping Software command to export accident GPS data in a format designed to be imported into mapping software.

Other Export Commands - Use the other export commands to export the indicated type of data in a tab-delimited text file.

Back to File Menu

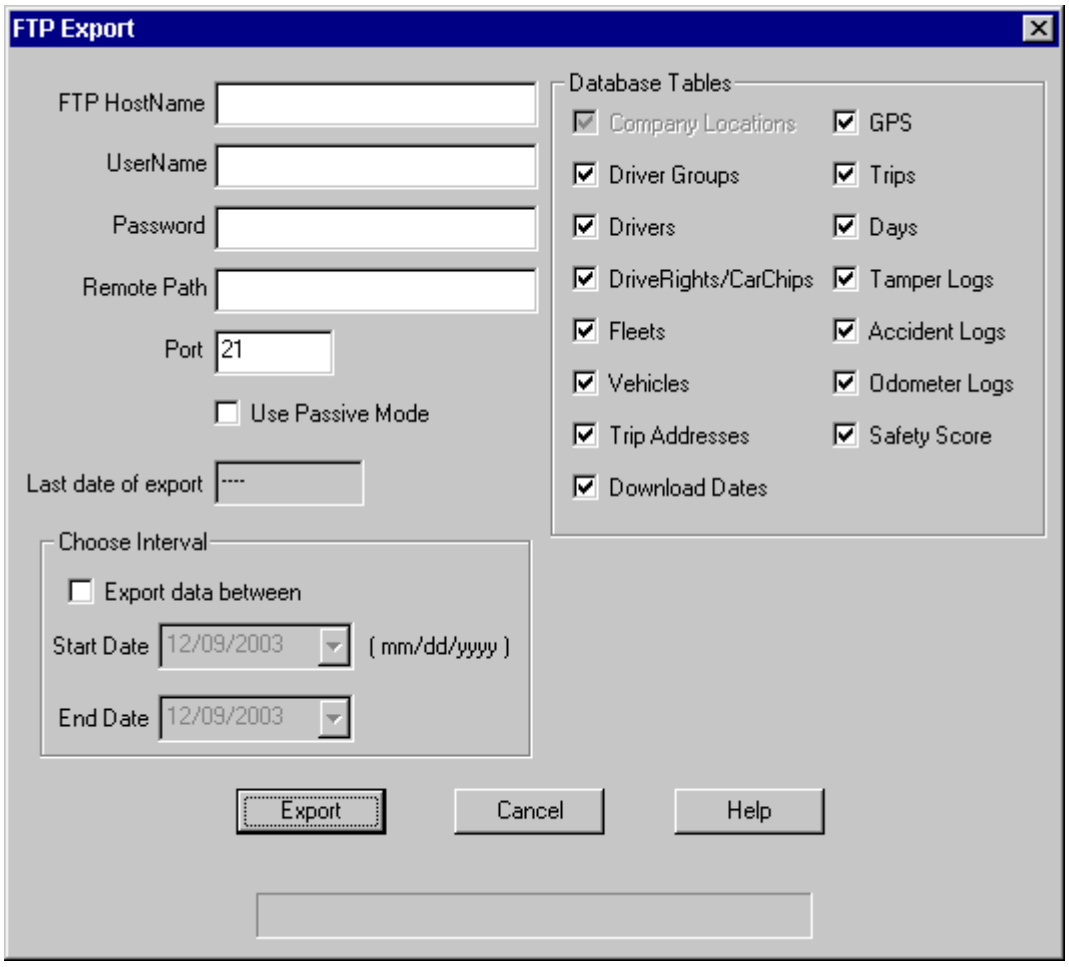
Export: FTP Export

FTP (File Transfer Protocol) Export shows all the available database tables that you want to export to the FTP site. By default all tables are selected. You can un-check the tables that you don't want to export.

Note: Before you start this operation, contact your systems administrator for your FTP account information.

Steps to follow:

1. Select Export in the File Menu.
2. Select the FTP Export from the menu list. The FTP Export dialog box is displayed.



3. In the FTP Host Name box, type the name of the FTP server that you want to export the database tables.
4. In order to access the FTP site you must have a user account on the FTP site. Enter your user name and password in the appropriate boxes.
5. In the Remote Path box, you can enter a specific directory path in the FTP server to which to export your files.

6. Default port for the FTP site is 21. Use the default port unless the FTP site listens on a different port.

7. Default connection to the FTP site is active mode. Some FTP sites allow only passive mode connections.(check the passive mode check box in that case). For details, contact your system administrator.

8. Select the database tables to be exported by clicking the box for each table. Click a second time to de-select the table.

9. If desired, you can export records that are dated within a specified time interval. The default start date for the interval is the last date of export. The default end date is the current date. You can change the start and end dates as required. If you have exported data previously, the last date of export is displayed in the dialog box.

10. Click export button once you are done with the above steps.

11. Application will create a sub-directory with your current location name on the FTP site, if it doesn't already exist, and then exports a ZIP file to the sub-directory. Default name for the export ZIP file is "day" + "month" + "year".zip (20jan2003.zip).

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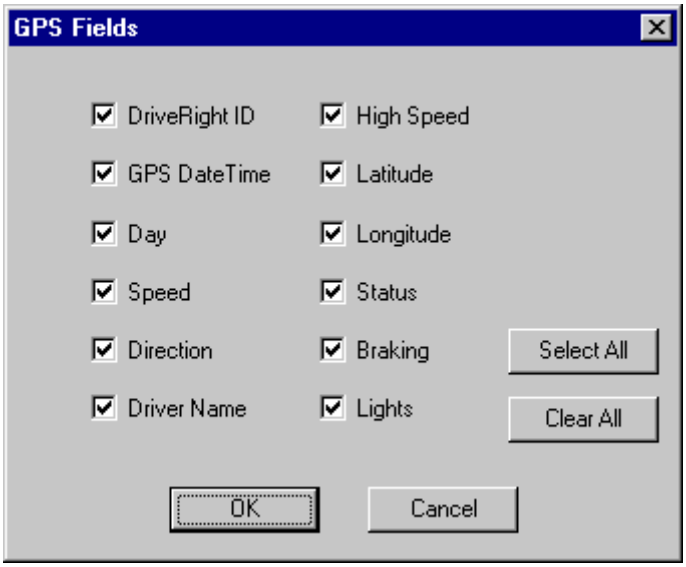
Export: GPS to Mapping Software

To export GPS data:

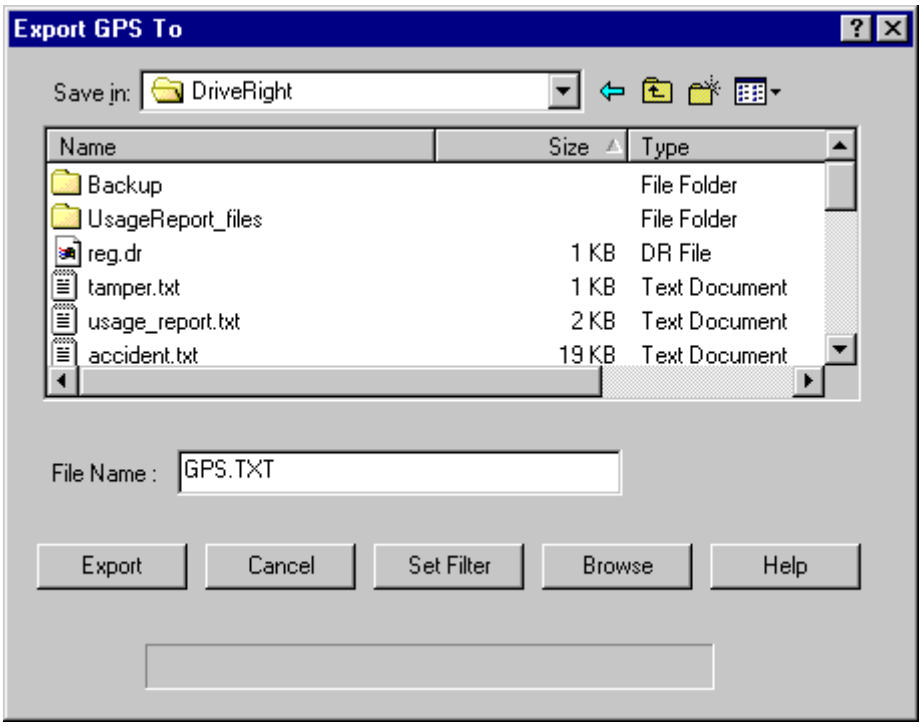
1. Select Export in the File Menu.
2. Select GPS to Mapping Software in the drop-down Export menu. The GPS Fields dialog box is displayed.



3. Only the checked GPS fields will be exported. Click on Select All to check all fields. Click on Clear all to clear all fields. Click in the box for each field to toggle the check on and off.

4. Note: These key fields should always be selected: GPS DateTime, Speed, High Speed, Latitude and Longitude.

5. Click OK in the GPS fields box to continue, click cancel to exit. If you click OK, the Export GPS To dialog box is displayed.



3. The default file name is GPS.TXT and the default directory is the DriveRight FMS install directory. You can edit or change the file name directly in the text box. You can also change the directory in which the exported GPS data file will be saved.

4. Click the "Set Filter" button to narrow the selection of GPS data to be exported.

5. Click the Browse button to view the GPS data before you export it.

6. Press OK when you are ready to export the GPS data or click Cancel to exit without exporting data. If you click OK, the exported GPS data will be saved in a file ready to be imported into your mapping software.

See also:

Import GPS Data Into MapPoint

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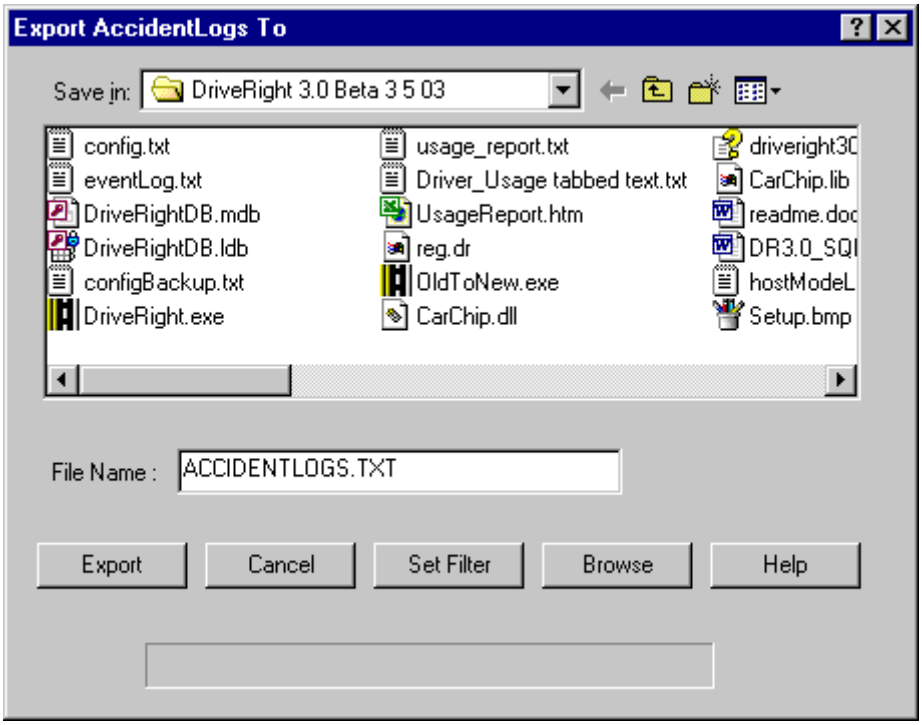
Export: Accidents to Mapping Software

To export accident log data:

1. Select Accident to Mapping Software from the Export command in the File Menu. The Export Accidentlogs To dialog box is displayed.



2. Select the file directory in which to save the accident log files.

3. Verify the file name for the accident log file. You can edit the name in the dialog box if desired.

4. Click Export to create the accident log data file or click Cancel to exit. If you click OK, the exported Accident Log data will be saved in a file ready to be imported into your mapping software.

To import data into MapPoint:

1. Start the MapPoint application.
2. Select Import Data Wizard from the Data pull down menu.
3. Using the File Dialog find select the ACCIDENTLOGS.TXT file and click on Open.
4. "Tab" should be selected to separate the data. Click Next.
5. All the fields you exported will appear in the next dialog. Column headings are included and should be detected by the program. All the columns should have <Other Data> as their data type except Lat and Long. Check to make sure the Lat and Long were detected correctly. If they are not, correct them. Click Finish.
6. Choose Multiple Symbol and click Next. These instructions show you how to color code accident log points by speed at T0. T0 is the middle point of the accident log.
7. In "Select the data filed or column to map" list, select time_TO. In "Divide the data you chose above by" list, select <None>. In "Show the data by" list, select Latitude & Longitude. Click Next.
8. Enter the speed divisions you want to use and the color for each division.
9. Click Finish to plot the points.
10. In the left frame, right click on "time_T0 by Latitude & Longitude". Select "Properties". Open the Balloon tab and select time_T0, accidentDateTime and any other fields you want to view.
11. Zoom in enough to see individual points, right click on a point, and pick "Show Information", to look at data for that particular point.

12. MapPoint allows you to navigate around on the map pretty well. Some useful keystrokes are '+' to zoom in and '-' to zoom out. Also, you can draw a box around an area and then click in it to zoom into it. You can scroll the map using your mouse by just positioning the mouse cursor on the side of the map you want to scroll into.

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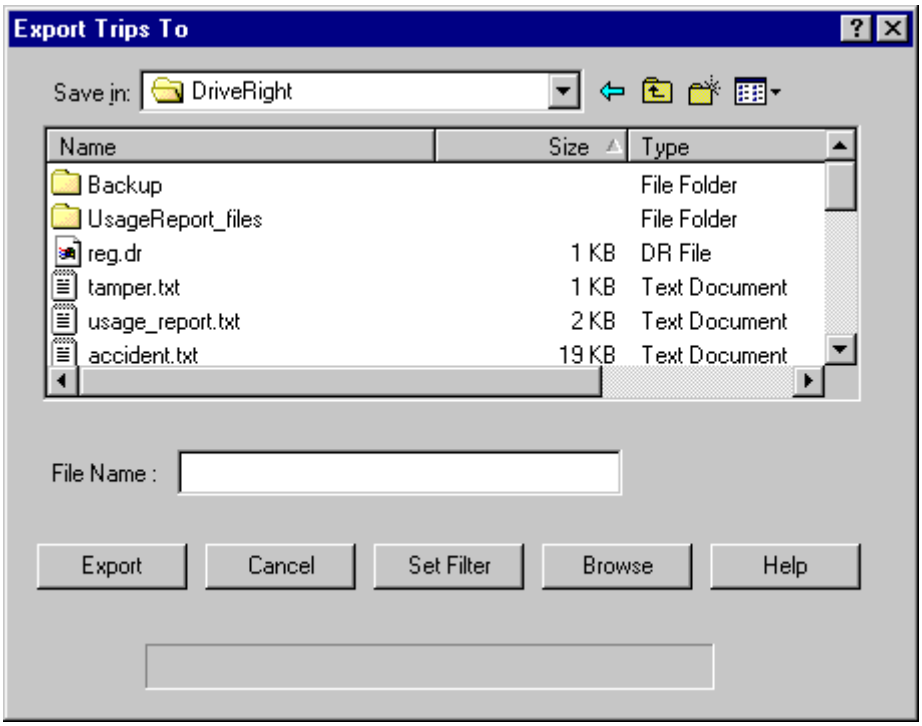
Export: Export Data To

Use the Export "data type" command to export the data in the database to a file. The exported files are in a tab-delimited text file format and can be used to exchange information within your company, with your clients, etc.

To export data:

1. Select Export in the File Menu.
2. Select the data type you wish to export (Drivers, Vehicles, Trips, Costs, etc.) from the drop-down menu. The Export "data type" To window is displayed. The Export Trips To window is shown here as an example.



3. Create a name for the file you wish to export on the Export File Name box (for example: Trips.txt).

4. Use the browse function in the Export *data type* To dialog box to select a destination where you wish to place the file.

5. In some cases, you can use the Set Filter option to more specifically specify the data to be exported (for example: export only information related to one driver, or a group, or a period of time, etc.).

6. If you wish you can view the file before exporting by clicking the Browse button. This will give you the opportunity to view the selected records that will be exported.

7. If the data is correct, you can click the Export button to create the export data file.

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Print

Use the Print command to print a DriveRight report that is displayed on your screen.

To print:

1. Click Print in the File menu. The print dialog box appears.
2. Select your desired print options.
3. Click OK to print or click Cancel to exit the dialog box without printing.

Note: The Print command is only enabled when a report is being displayed.

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Print Preview

To preview a print job:

1. On the File menu, click Print Preview.
2. Use the buttons on the toolbar to look over the page or make adjustments before printing.

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Print Setup

To setup your print options:

1. On the File menu, click Print Setup.
2. Select your desired print options.
3. Click OK to save the settings or click Cancel to exit the dialog box without saving.

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Clear Screen

Use the Clear Screen command to clear reports from the main program window.

Printed Documentation

To clear the screen:

1. Click Clear Screen in the File menu. The main program window is cleared.
2. You can also use the Clear Screen icon to clear the screen:

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Exit

Use the Exit command to close the DriveRight software.

To exit the software:

1. Click Exit in the File menu. The software quits.

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Setup Menu

Setup Menu

The following commands are available in the Setup Menu:

Current Location
Users
Preferences
Host Mode
Communications Port - DriveRight
Communications Port - CarChip
Default DriveRight Settings
Default CarChip Settings
Digital Input Labels
Corporate Structure

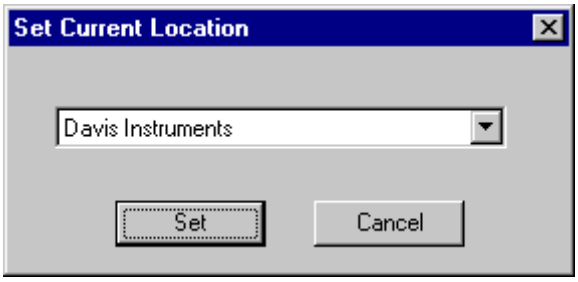
Back to Menu Commands

Current Location

DriveRight 3.0 allows you to organize your data according to location. All information is stored as part of the Current Location. You need to set Current Location value properly for proper data storage. Once current location name is set, the corresponding location id is stored in all the downloads. All operations like database browsing, reporting, etc, are performed with respect to the current location.

To change the current location:

1. Select **Current Location** command in the **Setup** Menu. The **Set Current Location** dialog box is displayed:



2. Select the desired location from the drop-down list.
3. Click **Set** to change the location or click Cancel to exit without changing the current location.

Note: A new location can be added by going to Database->Company Locations, and clicking Add New button in the Browser.

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Users

Users Menu

The Users Menu commands allow you to log in and to change your password. If you are the Super User you can also browse the list of registered users.

Login

Browse/Add Users

Change Password

Back to Setup Menu

Users Menu

The Users Menu commands allow you to log in and to change your password. If you are the Super User you can also browse the list of registered users.

Login

Browse/Add Users

Change Password

Back to Setup Menu

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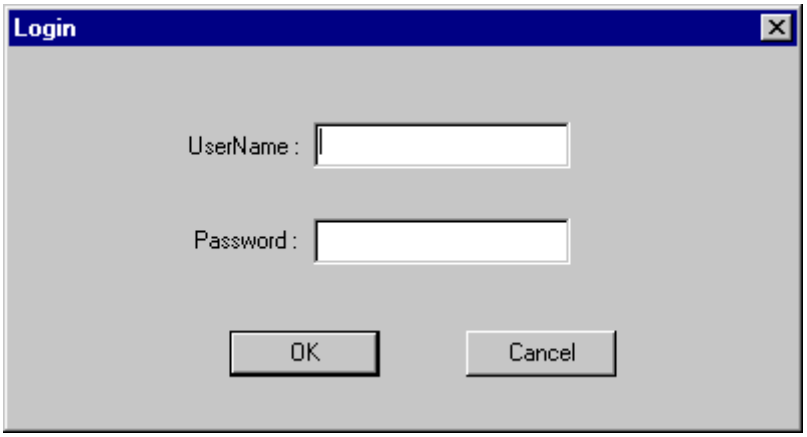
Users: Login

The Users Login command allows you to change the User without exiting the program. You must be a registered user to access program functions.

To change the current user:

1. Select Login from the Users command in the Setup Menu. The Login dialog box is displayed.



2. Enter your User Name and Password.
3. Click OK to log in, or click Cancel to exit the dialog box without changing the current user.

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Users: Browse/Add

The Users Browse/Add command opens the Users browse window showing you a list of all registered users, including their passwords. From this window you can add new users or edit the privileges of existing users.

Note: You must be logged in as the Super User to access this command.

To open the Users browse window:

1. Select Browse/Add from the Users command in the Setup Menu. The Users browse window is displayed.
2. Click on Add New to add a new user.
3. To change a user's settings, click on the user in the browse window and then click on Edit.
4. To delete a user, click on the user in the browse window and then click on Delete.
5. To print the browse window, click on Print.
6. Click Close to exit the window, or click on the close icon in the upper right corner of the window.

See also:

Add New User

Edit User

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Users: Change Password

The Users Change Password command allows you to change your DriveRight password.

To change your password:

1. Select Change Password from the Users command in the Setup Menu. The New Password dialog box is displayed.

2. Enter your new password, then retype your new password.
3. If the retyped password doesn't match, you will be prompted to check the retyped password.

Note: In order to change your password the new password and the retyped new password must match exactly.

4. Click OK to change your password or click Cancel to exit the dialog box without changing your password.

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Preferences Menu

You can set the following program preferences in DriveRight FMS:

Units
Automation Options
Download Options
Database Browser

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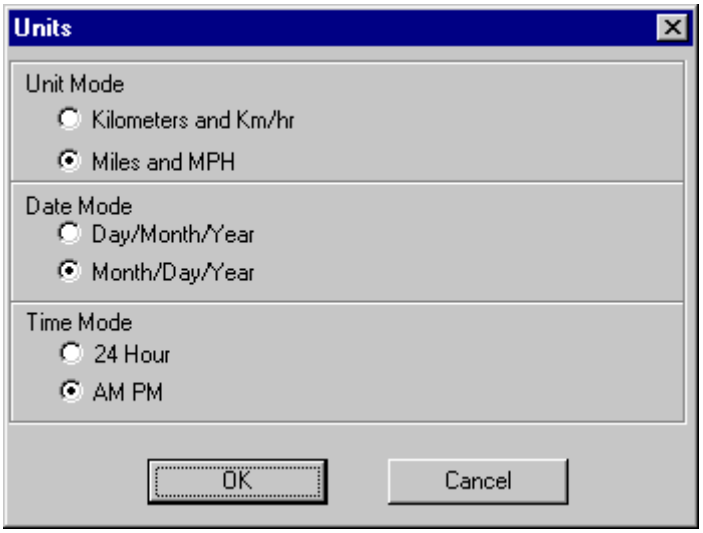
Preferences: Units

The Units dialog box allows you to select the units used for distance and speed and also control the display of the time and date.

To set units:

1. Choose **Units** from the **Preferences** command in the **Setup** menu.
   The Units dialog box appears.



2. Select the desired distance/speed, date, and time options.

3. Choose **OK** when you are satisfied with the settings, choose **Cancel** to exit without changing the settings.

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Preferences: Backup Options

Use the Backup Options command to set the time interval at which DriveRight FMS will prompt you to backup your database and to set the number of months of records to keep in the active database. Refer to Active Database Size Recommendations and Database Backup Considerations for more information.

To set your download options:

1. Choose **Backup Options** from the Preferences command in the **Setup** menu.
   The Backup Options dialog box appears.

2. Check the box for "Keep *X* months of records active in the database after every backup" then select the number of months from the drop down list to keep the selected number of months

active in the database after a backup. All data recorded before the specified period of time will be removed from the active database.

See also:

Database Backup Considerations

Active Database Size Recommendations

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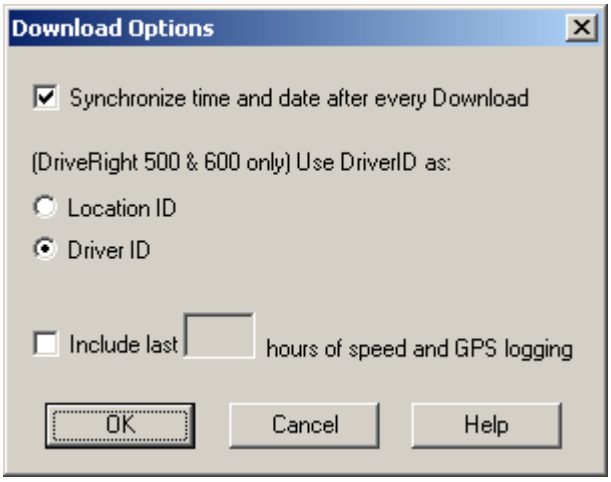
Preferences: Download Options

Use the Download Options command to set up the automatic synchronization of the DriveRight's clock after each download and to determine how the software will handle the Driver ID set in the Trip 500AL and DriveRight 600 consoles.

To set your download options:

1. Choose **Download Options** from the Preferences command in the **Setup** menu.

   The **Download Options** dialog box appears.



2. Select **Synchronize time and date after every download** to have your DriveRight unit's clock automatically reset to match your computer after each download.

Note: If you choose this option, all DriveRight consoles included remote units downloaded through host mode will be reset to the computer's time and date, even if the remote DriveRight is in a different time zone.

3. If you are using DriveRight Trip 500AL or DriveRight 600 consoles, set the DriverID as either the Location ID or the Driver ID.

4. Select **Include last hours of speed and GPS logging** to determine number of hours of speed data the recorded by the CarChip that the FMS software keeps. To save database space, CarChip uses the default setting of 1 hour and saves the last hour of GPS and Speed

Interval data that gets displayed in the GPS database table. Select this check box and enter the number of hours of speed and GPS logging data you want to keep.

Note: The maximum number of hours of speed and GPS logging information that can be downloaded and stored is 9 hours. To minimize download times and limit the amount of database server space used, it is recommended that the default of one hour be used. Note that by increasing the number of hours of speed and GPS logging information that is kept increases the amount of time it takes to download information from the CarChip to the software.

5. Click **OK** to save the changes, click **Cancel** to exit without saving.

Back to Setup Menu | Preferences Menu

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Preferences: Database Browser

Use the Database Browser commands to change the text font and color and the background color used in the Browser windows.

Text Font and Color

Background Color

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Host Mode

Host Mode Menu

Host Mode allows drivers to dial in remotely and download their DriveRight using a modem.

Host Mode On

Host Mode Setup

Remote Modem Setup

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Host Mode On

This is the mode that your modem should be in when someone wants to call in from outside to transfer data from one or more DriveRight devices. A dialog box appears indicating that the modem is being initialized. After the initialization has been completed successfully, the other party can call in. When the Host Mode is on, all other software operation are suspended.

Tip: It's a good idea to set a schedule for remote drivers to call into the Host computer. For example, setting the rules to call outside business hours, then leaving the computer in Host Mode

as the last task of the day will give drivers flexibility to call in. Alternatively, one computer can be dedicated as the Host, and data can be exported from it periodically to another computer where analysis and reporting are performed.

- The user connects his modem to the DriveRight (showing the CURRENT screen) using the remote download Kit (item #8188, purchased separately).
- The host mode is a well-protected function. You can only communicate as long as a DriveRight is connected to your PC. In all other cases, communication is lost.
- For details on how to install a remote modem to enable it to participate in the Host Mode, please consult the instructions accompanying the Remote Download Kit.
- The History Window displays status information for downloaded DriveRights.
- Hang Up: Generally, you will not need this button because the software will hang up automatically. However, if necessary you can manually hang up the phone using this button.
- Reinitialize Modem: Resets the modem initialization.
- Exit Host Mode: Exit host mode and resume normal program operation.

See also:

Host Mode Menu

Host Mode Setup

Host Mode: Remote Modem Setup

Back to Setup Menu | Host Mode Menu

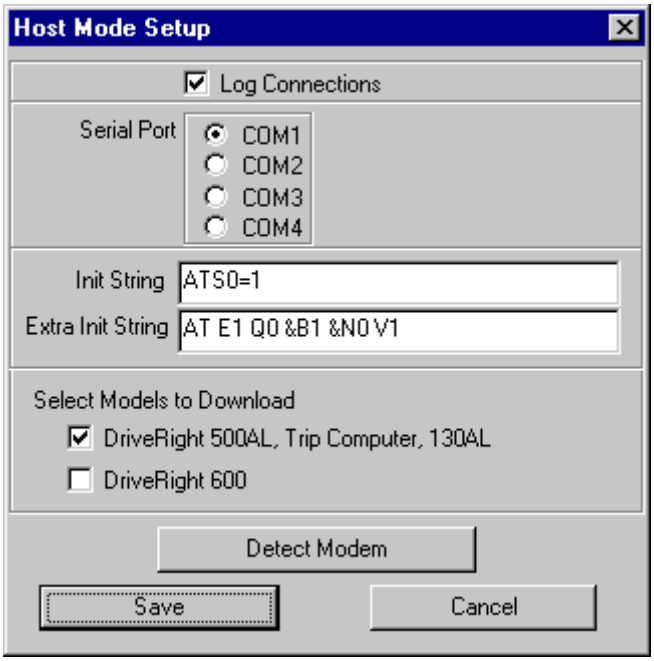
Home | Getting Started | Quick Reference | Menu Commands | Troubleshooting

Host Mode Setup

Host Mode Setup allows you to configure your computer's modem to accept calls.

To be able to communicate with the DriveRight and transfer data over a modem, the communications port should be defined for your modem. Furthermore, set the modem of your PC to Auto-Answer when there is a call. Refer to your modem manual for Auto-Answer.

- Select the COM Port that your modem is connected too.
- The default initialization strings are "AT E1 Q0 &B1 &N0 V1" and "ATS0=3" for string 1 and string 2.
- Click Detect Modem to detect the serial port to which the modem is connected.
- If you are going to download just DriveRight 500 AL and earlier models just check that box. See description below for explanation as to why this is necessary.



Note: Because the DriveRight 500 and earlier versions of DriveRight communicate at 2400 baud and the DriveRight 600 communicates at 19,200 baud, you must configure your computer to communicate with either the DriveRight 600 or with earlier models.

See also:

Host Mode On

Host Mode: Remote Modem Setup

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Remote Modem Setup - Using Hyper Terminal

The external modem at the site where the DriveRight is connected is called the "remote" modem. The DriveRight owner, when he wants to download his information, connects the DriveRight to this modem using the interface box and modem adapter included in the Remote Modem Kit. He then turns the modem on, and it will dial the host computer and the download will be initiated. However, before the modem will dial up the host computer and download correctly it must be set up correctly. The following instructions explain how to do this manually for a US Robotics Courier V. Everything modem and the Windows 95 accessory program Hyper Terminal. In addition, the setups for US Robotics 56K Fax Ext are included.

Unfortunately, not all modems have the same command set or act the same way on power up. If you are using a modem other than the one described, read the instructions below and then refer to your specific modem documentation to determine if your modem can be used.

Note: When you are asked to type a command, do not type the quotes. Type all commands in upper case.

1. Take the modem out of the box and check that the DIP switches are set in the following way:

   Switch Number: 1 2 3 4 5 6 7 8 9 10

   Switch Setting: 0 0 0 1 1 0 0 1 0 0

Note: 0 is short for OFF and 1 is short for ON. These DIP switches only apply to the US Robotics Courier V. Everything modem.

2. Using the Remote Modem Kit, connect the remote modem to a known serial port, and then turn the modem on. Make sure you use the gray phone cable included in the kit to go from your serial port to the modem. The black phone cable included in the DriveRight Software kit will not work for a modem.

3. Run the Hyper Terminal program. You can find the program in the Start menu under Programs/Accessories/Hyper Terminal. Click on one of the phones in the program group to start the program.

4. Select "Properties" from he File menu and make sure you have the correct serial port selected. If you are not sure, you will have to use trial and error. In most cases "Direct to COM1" or "Direct to COM2" should work. The File/Save As command can be used to save these settings under a name of your choice. You then can click on the phone with this name to start Hyper Terminal next time.

5. Type the letters "AT" and press enter. If you get an OK back, you are communicating with the modem. If you do not, type the following commands.

   "ATE1V1Q" and press Enter

   You should now be able to type "AT" and press enter and receive an OK back. You should also be able to see the "A" and the "T" when you type them.

   If the above test fails, check your connections and then try another COM port by changing your selection in the Properties option in the File menu.

6. Enter the following commands to program the modem. You should receive an "OK" after each one of the commands below unless stated otherwise.

   "ATS13=16" and press Enter

   Now, you will program the phone number to be dialed. In the example below, the host computer is connected to 780-6455.

   "AT&Z0=780-6455" and press Enter

   Now the modem will dial this number when it is turned on.

   "AT&W" and press Enter

   This setup is now saved in non-volatile memory which is loaded when the modem is turned on.

   "AT&M4" and press Enter

   This tells the modem to use a standard error detection protocol which should be used to insure the data transfer is done error free.

   "ATE0Q1" and press Enter

   You will not receive an "OK" after this command. "Q1" tells the modem to operate in "quiet" mode. This is necessary so the DriveRight does not interpret any responses from the modem as commands. Note also, command will no longer be echoed. If you type AT Enter, you will see nothing; however, this is what we want and why we waited to do this on the last step.

7. Exit Hyper Terminal: You are now ready to test your programming. If you have two separate phone lines and the DriveRight software you can completely test your setup. Plug in a working phone line to the remote modem and the "correct" phone line into your computers

internal or external modem. The "correct" line is the one belonging to the number you programmed in step 5. Run the DriveRight software and put it in "host" mode by selecting "Host Mode On" in the Setup/Host Mode menu. Connect the DriveRight to be downloaded to the external modem through the interface box and the black cable, not the gray cable you used to program the modem. Turn the modem off and then back on again. The modem should dial the host, the computer should answer the call and download the data. The DriveRight owner knows the download is completed when the CD light goes off. Under any circumstances, the download should be completed in no more than 5 minutes.

Below are the modem configurations for the US Robotics modems used during testing.

FIELD MODEM:

For DriveRight 500 make sure &N3 (if DriveRight 600 not selected in Host Mode Setup &N0 will also work.)

For DriveRight 600 make sure &N0 or &N10.

USRobotics Courier V.Everything Settings...

B0 C1 E0 F1 M1 Q1 V1 X1

BAUD=19200 PARITY=N WORDLEN=8

DIAL=TONE ON HOOK TIMER

&A1 &B0 &C1 &D2 &G0 &H0 &I0 &K1 &L0 &M4 &N3

&P0 &R1 &S0 &T5 &U0 &X0 &Y1 %N6 #CID=0

S00=000 S01=000 S02=043 S03=013 S04=010 S05=008 S06=002 S07=060

S08=002 S09=006 S10=014 S11=070 S12=050 S13=016 S14=001 S15=000

S16=000 S17=000 S18=000 S19=000 S20=000 S21=010 S22=017 S23=019

S24=150 S25=005 S26=001 S27=000 S28=008 S29=020 S30=000 S31=000

S32=009 S33=000 S34=000 S35=000 S36=000 S37=000 S38=000 S39=000

S40=000 S41=000 S42=126 S43=200 S44=015 S45=000 S46=000 S47=000

S48=000 S49=000 S50=000 S51=000 S52=000 S53=000 S54=064 S55=000

S56=000 S57=000 S58=000 S59=000 S60=000 S61=000 S62=000 S63=000

S64=000 S65=000 S66=000 S67=000 S68=000 S69=000 S70=000

LAST DIALED #: T293-3529

Switch 4,5, and 8 ON all others off.

FIELD MODEM:

For DriveRight 500 make sure &N3.

For DriveRight 600 make sure &N0 or &N10.

U.S. Robotics 56K FAX EXT Settings...

B0 E0 F1 M1 Q1 V1 X1 Y0

BAUD=19200 PARITY=N WORDLEN=8

DIAL=TONE ON HOOK CID=0

&A1 &B0 &C1 &D2 &G0 &H0 &I0 &K1

&M4 &N10 &P0 &R1 &S0 &T5 &U0 &Y1

S00=004 S01=000 S02=043 S03=013 S04=010 S05=008 S06=004

S07=060 S08=002 S09=006 S10=014 S11=070 S12=050 S13=016

S15=000 S16=000 S18=000 S19=000 S21=010 S22=017 S23=019

S25=005 S27=000 S28=008 S29=020 S30=000 S31=128 S32=002

S33=000 S34=000 S35=000 S36=014 S38=000 S39=000 S40=001
S41=000 S42=000
LAST DIALED #: T2933529

SWITCH 4,8 ON all others OFF.

HOST MODEM:

U.S. Robotics 56K FAX EXT Settings...

B0 E1 F1 M1 Q0 V1 X1 Y0
BAUD=19200 PARITY=N WORDLEN=8
DIAL=TONE ON HOOK CID=0
&A1 &B1 &C1 &D2 &G0 &H0 &I0 &K1
&M4 &N0 &P0 &R1 &S0 &T5 &U0 &Y1
S00=004 S01=000 S02=043 S03=013 S04=010 S05=008 S06=004
S07=060 S08=002 S09=006 S10=014 S11=070 S12=050 S13=000
S15=000 S16=000 S18=000 S19=000 S21=010 S22=017 S23=019
S25=005 S27=000 S28=008 S29=020 S30=000 S31=128 S32=002
S33=000 S34=000 S35=000 S36=014 S38=000 S39=000 S40=001
S41=000 S42=000
LAST DIALED #:

SWITCH 3,8 ON all others OFF.

DriveRight Software Host Mode Setup

Inititialization String 1: AT E1 Q0 &B1 &N0 V1
Inititialization String 2: ATS0=3

See also:

Host Mode On

Host Mode Setup

Back to Setup Menu | Host Mode Menu

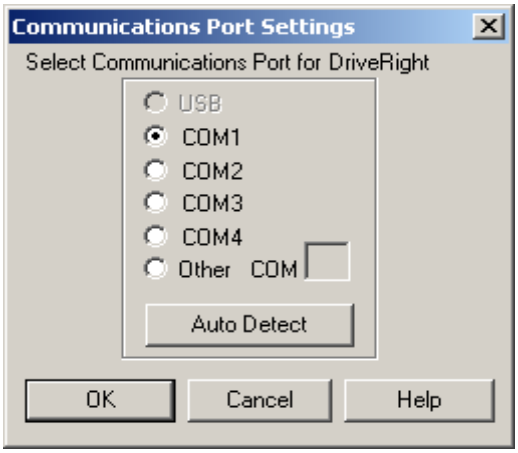
Home | Getting Started | Quick Reference | Menu Commands | Troubleshooting

Communications Port - DriveRight Settings

Use the Communications Port - DriveRight Settings command to select the communications port used to connect a DriveRight device to your computer.

To select a communications port:

1. Choose the Communications Port - DriveRight command in the **Setup** Menu. The Communications Port Settings dialog box is displayed:



2. Select the communications port from the list provided. DriveRight FMS supports COM1 through COM8.

3. If you are not sure which communication port you are using, connect your DriveRight to your computer:

- Press the Mode button on the DriveRight if necessary to make sure the device is on.
- Click the **Auto Detect** button.
- If the DriveRight is found by the software, the following message is displayed and the correct communications port is selected in the dialog box.

4. Click **OK** to save the serial port selection or click **Cancel** to exit the dialog box without changing the serial port.

Note: If you are working on a network, ask the network administrator to assist you in selecting the correct communications port.

Back to Setup Menu

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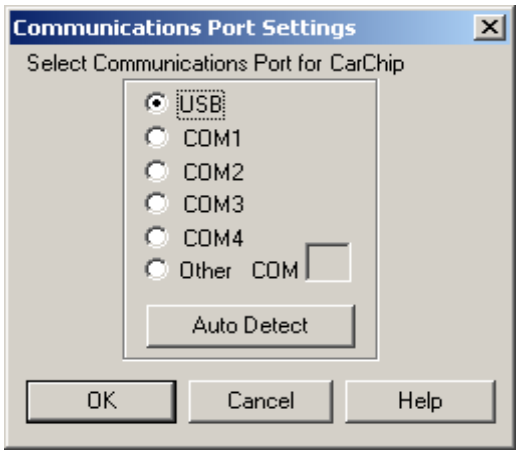
Communications Port - CarChip Settings

Use the Communications Port - CarChip Settings command to select the communications port used to connect a CarChip device to your computer.

To select a Communications port:

1. Choose the **Communications Port - CarChip** from the **Setup** Menu. The **Communications Port Settings** dialog box is displayed:



2. Select USB if using a USB connection or the correct COM port for the serial port connection from the list provided. DriveRight FMS supports USB and COM1 through COM8.

3. If you are not sure which communications port you are using, connect your CarChip to your computer, click the **Auto Detect** button. If the CarChip is found by the software, the following message is displayed and the correct communications port is selected in the dialog box.

4. Click **OK** to save the communications port selection or click **Cancel** to exit the dialog box without changing the communications port information.

Note: If you are working on a network, ask the network administrator to assist you in selecting the correct communications port.

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Default DriveRight Settings Menu

Default DriveRight Settings Menu

Use the Default DriveRight Settings Wizard to create default device settings which are used by all new DriveRights added to the system. Use the View/Set command to review or edit the default settings.

View/Set

Setup Wizard

Back to Setup Menu

Home | Getting Started | Quick Reference | Menu Commands | Troubleshooting

Default DriveRight Settings Wizard

The values entered in this setup are used as default settings when you add new DriveRight devices to the database. If you click this menu option , a dialog box pops up that contains a brief description about the Default DriveRight Settings Wizard.

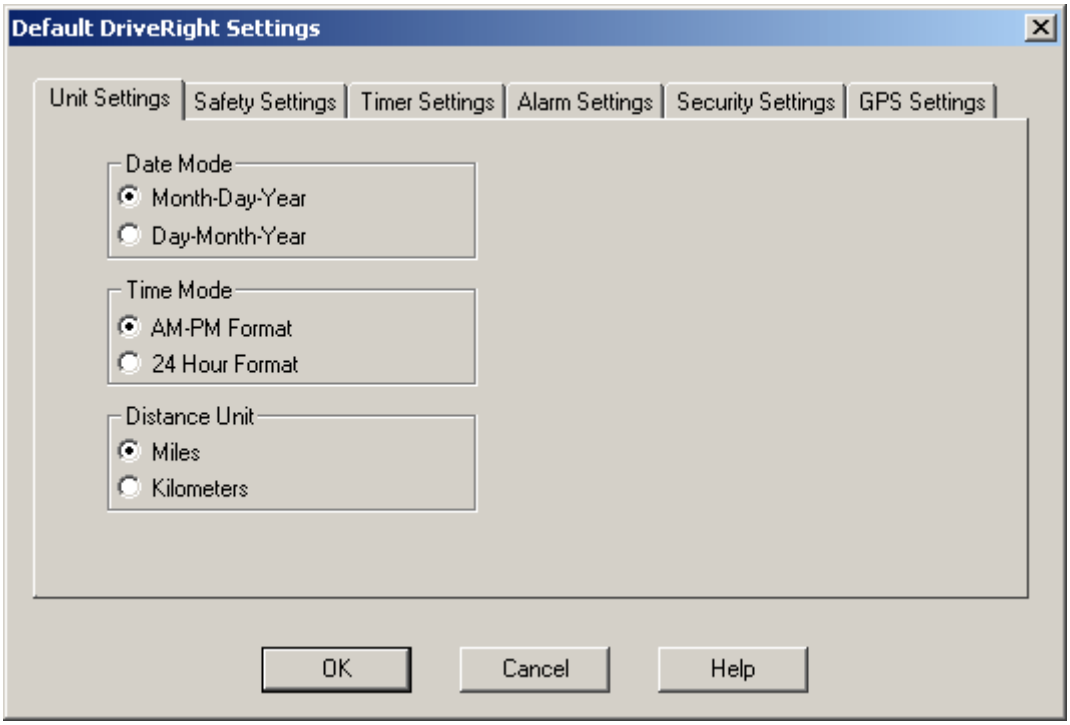
To edit the Default DriveRight Settings:

1. Select Default DriveRight Settings in the Setup Menu.
2. Select Setup Wizard from the list of commands. The Default DriveRight Wizard dialog box is displayed.

3. If you select **OK**, the Default DriveRight Settings Wizard takes you through the dialog boxes listed below:

- Unit Settings: Select the date, time and unit modes and click OK.
- Safety Settings: Enter the speed, acceleration and deceleration limits and click OK.
- Timer Settings:Enter the trip stop time and driver log out time and click OK.
- Alarm Settings: Select the alarm mode. Warn if not logged in is an option.
- Security Settings: Enter the security code (PIN code). Tamper indicator is an option.

4. Once you are finished with the above five dialog boxes, a tab control dialog box appears with all the above five dialog boxes. You can navigate through them, change any of the settings, and save the settings by clicking OK.



Back to Setup Menu | Default DriveRight Settings Menu

Home | Getting Started | Quick Reference | Menu Commands | Troubleshooting

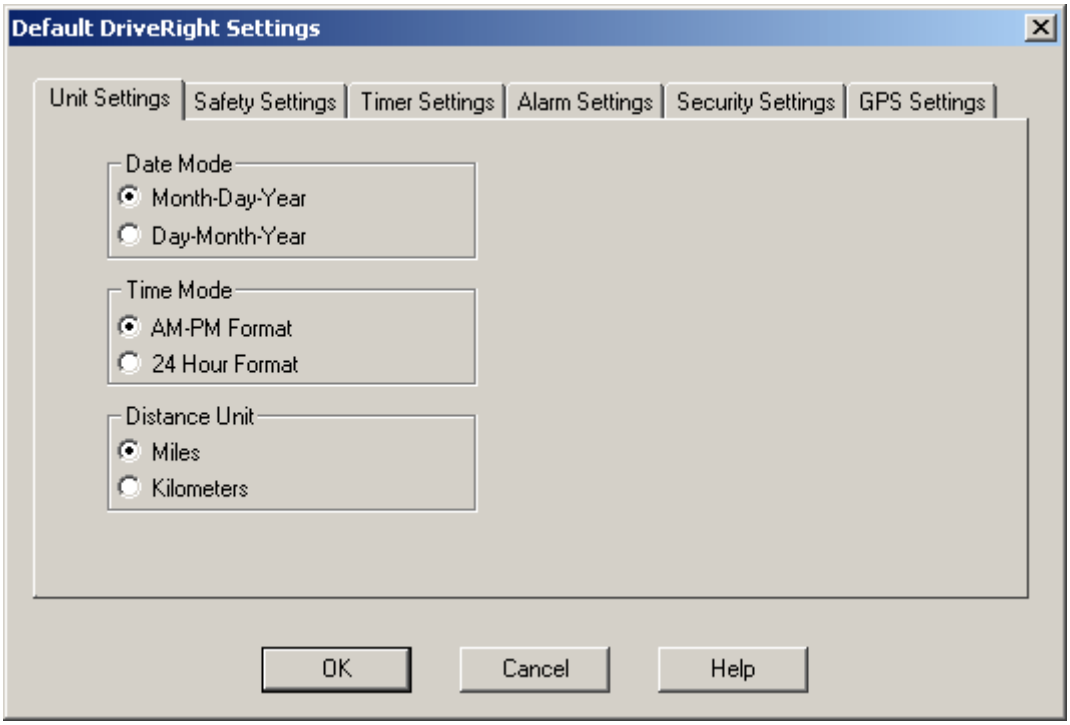
Default DriveRight Settings View/Set

Default DriveRight Settings View/Set

Use the Default DriveRight Settings View/Set command to view or edit the DriveRight FMS default DriveRight console settings..

To view or edit the Default DriveRight Settings:

1. Select Default DriveRight Settings in the **Setup** Menu.
2. Select View/Set from the list of commands. The **Default DriveRight Settings** dialog box is displayed.



3. Select a tab to view or edit the following default settings:

- Unit Settings: Select the date, time and unit modes and click OK.
- Safety Settings: Enter the speed, acceleration and deceleration limits and click OK.
- Timer Settings:Enter the trip stop time and driver log out time and click OK.
- Alarm Settings: Select the alarm mode. Warn if not logged in is an option.
- Security Settings: Enter the security code (PIN code). Tamper indicator is an option.
- GPS Settings: Turn the GPS logging and subsequent mapping feature on and off and select mapping features. Works only with DriveRight 600 units with GPS modules.

4. When your are finished, click OK to save any changes or click Cancel to exit without saving changes.

Back to Setup Menu | Default DriveRight Settings Menu

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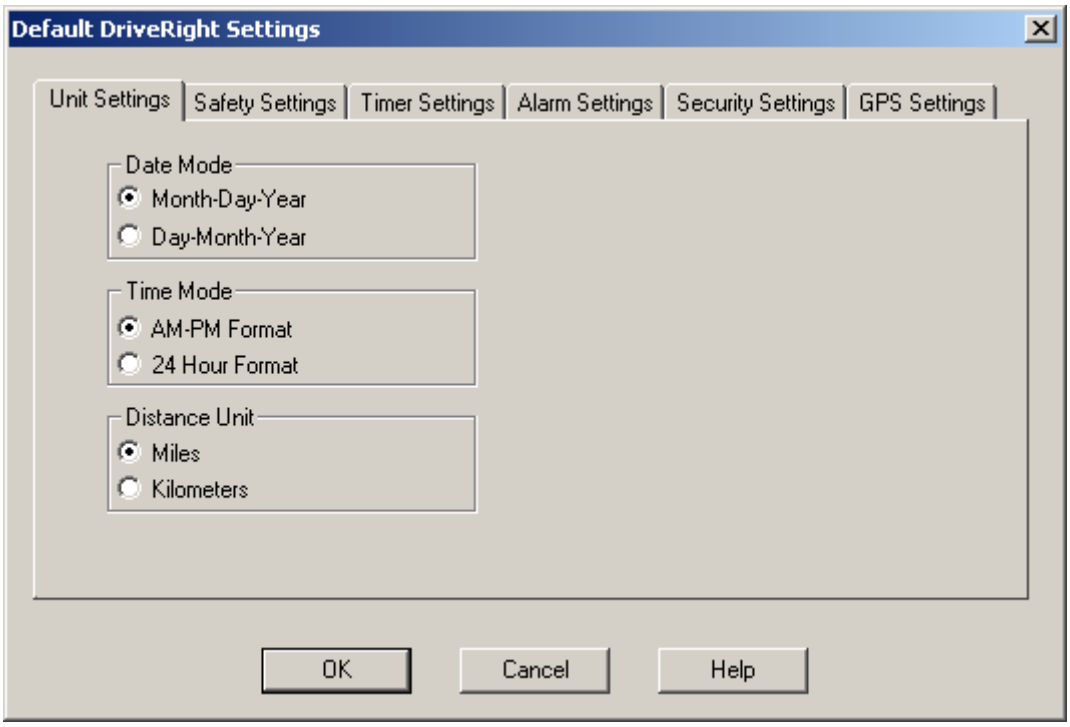
Unit Settings

Use this command to create default unit settings that can be used by all the vehicles in your fleet.

To set default unit settings:

1. Select View/Set from the Default DriveRight Settings submenu from the Setup menu. The Unit Settings screen in the Default DriveRight Settings dialog box is displayed.



3. Edit the unit settings for your fleet.
   - Date Mode settings control the way month, day, and year are displayed.
   - Time Mode settings control the time of day display.
   - Distance Unit settings allows you to select miles and miles per hour or kilometers and kilometers per hour as your speed and distance units.

4. Click OK to save the settings, click Cancel to exit without saving the settings, or click on another tab to make additional changes to the DriveRight default settings.

See also:

Safety Settings

Timer Settings

Alarm Settings

Security Settings

GPS Settings

Back to Setup Menu | Default DriveRight Settings | Default DriveRight Settings - View/Set

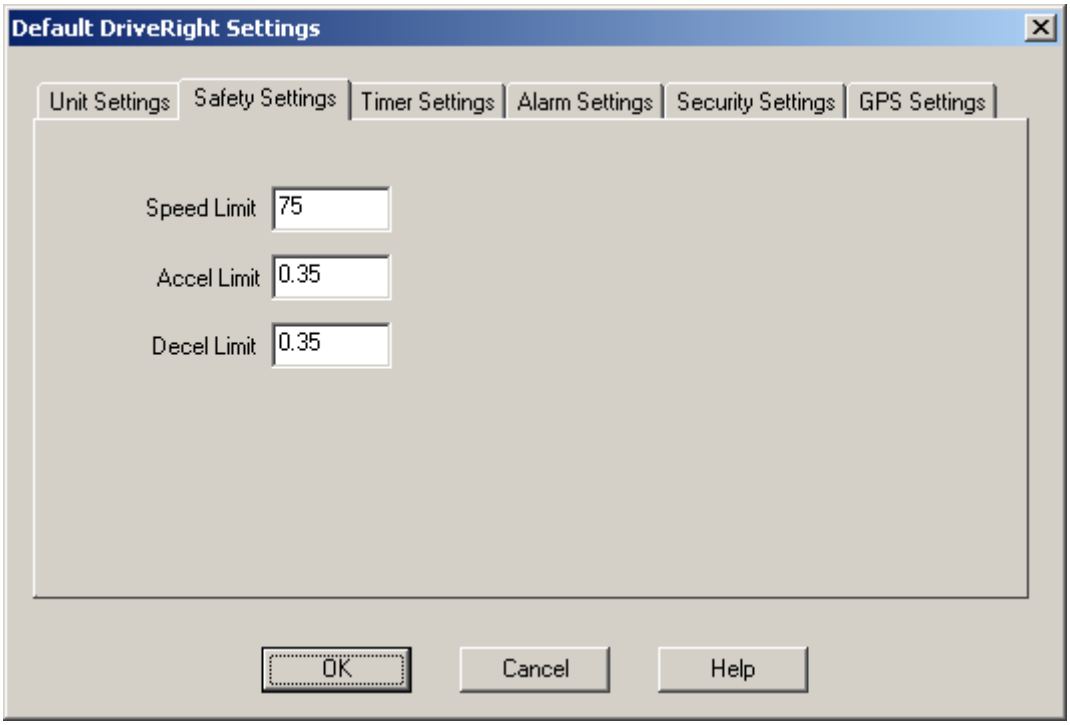
Home | Getting Started | Quick Reference | Menu Commands | Troubleshooting

Safety Settings

Use this command to create default DriveRight safety settings.

To set default safety settings:

1. Select View/Set from the Default DriveRight Settings submenu from the Setup menu The Default DriveRight Settings dialog box is displayed.
2. Select the Safety Settings tab near the top of the dialog box. The safety options are displayed.



4. Set the Speed Limit, which is the maximum allowable vehicle speed.
5. Set the Accel Limit, which is the maximum allowable rate of acceleration.
6. Set the Decel Limit, which is the maximum allowable rate of deceleration.
7. Click OK to save the settings, click Cancel to exit without saving the settings, or click on another tab to make additional changes to the DriveRight default settings.

See also:

Unit Settings

Timer Settings

Alarm Settings

Security Settings

GPS Settings

Back to Setup Menu | Default DriveRight Settings | Default DriveRight Settings - View/Set

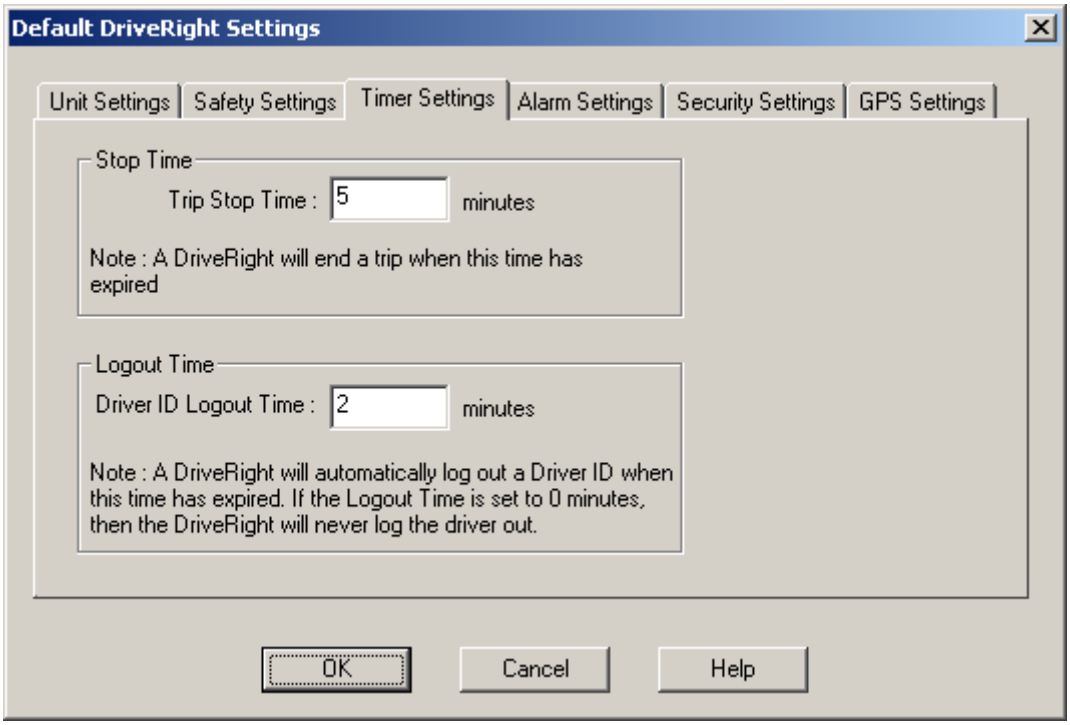
Home | Getting Started | Quick Reference | Menu Commands | Troubleshooting

Timer Settings

Use this command to create default timer settings that can be used by all the vehicles in your fleet.

To set Fleet default timer settings:

1. Select View/Set from the Default DriveRight Settings submenu from the Setup menu The Default DriveRight Settings dialog box is displayed.
2. Select the Timer Settings tab near the top of the dialog box. The timer options are displayed.



3. Set the trip stop time in minutes. The trip stop time is the number of minutes that elapse after a vehicle stops before the DriveRight stops recording trip data.
4. Set the Driver ID Logout Time in minutes. Use a logout time of "0" to never log out the driver. The Driver ID Logout Time is the number of minutes that elapse after a vehicle stops before the driver is logged out of the DriveRight.
5. Click OK to save the settings, click Cancel to exit without saving the settings, or click on another tab to make additional changes to the DriveRight default settings.

See also:

Unit Settings

Safety Settings

Alarm Settings

Security Settings

GPS Settings

Back to Setup Menu | Default DriveRight Settings | Default DriveRight Settings - View/Set

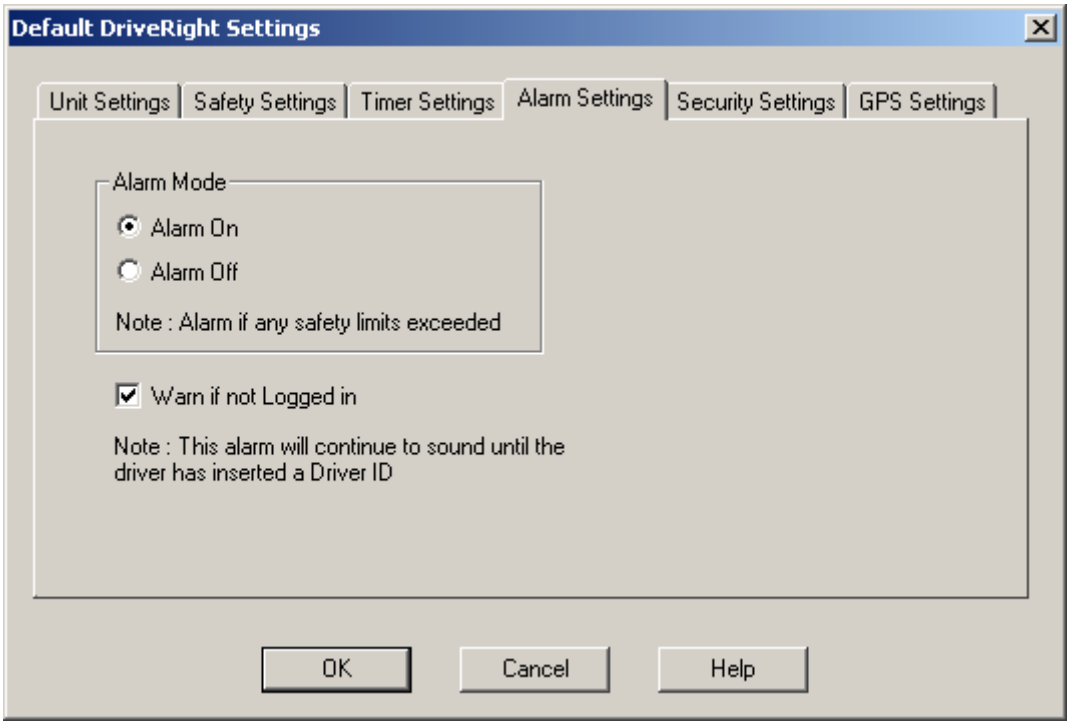
Home | Getting Started | Quick Reference | Menu Commands | Troubleshooting

Alarm Settings

Use this command to create default alarm settings that can be used by all the vehicles in your fleet. The alarm settings control the audible alarms used to indicate when the safety settings thresholds are exceeded.

To set default alarm settings for all DriveRight devices:

1. Select View/Set from the Default DriveRight Settings submenu in the Setup Menu. The Default DriveRight Settings dialog box is displayed.
2. Select the Alarm Settings tab near the top of the dialog box. The Alarm settings options are displayed.



4. Set the Alarm Mode to On or Off. This controls audible alarm reporting by the DriveRight device.
5. Enable "Warn if not Logged in" to have the DriveRight device give an audible alarm if the vehicle is operated without the driver first entering his or her driver code.
6. Click OK to save the Alarm Settings, click Cancel to exit without saving the settings, or click on another tab to make additional changes to the DriveRight default settings.

See also:

Unit Settings

Safety Settings

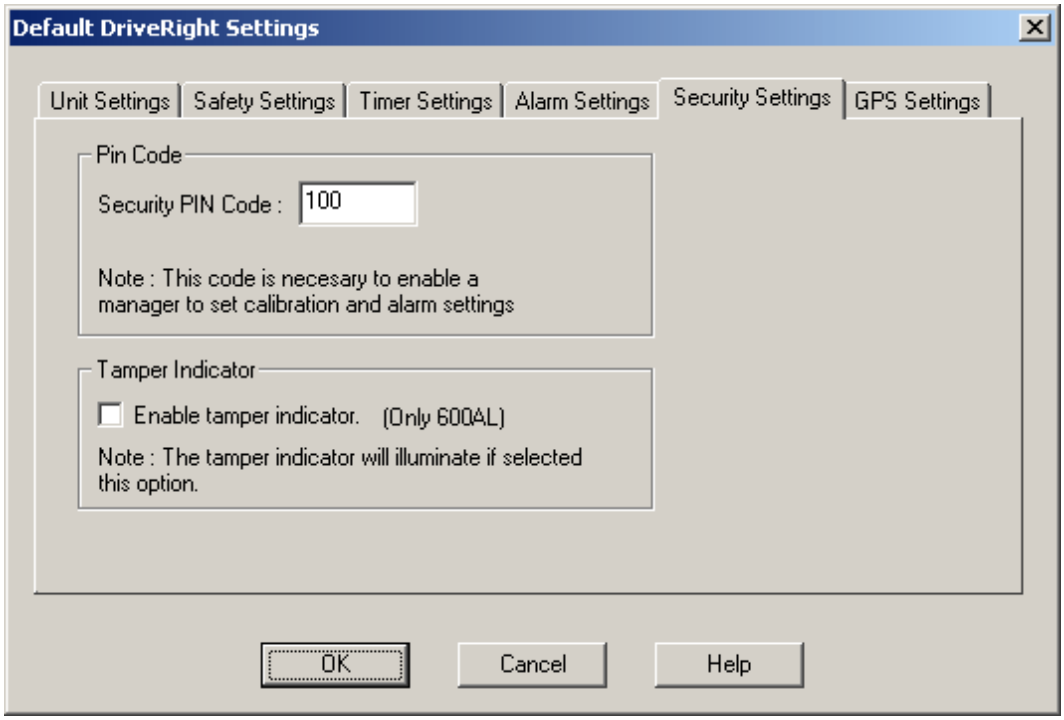
Timer Settings
Security Settings
GPS Settings

Security Settings

Use this command to create default DriveRight security settings.

To set default security settings:

1. Select View/Set from the Default DriveRight Settings submenu from the Setup menu The Default DriveRight Settings dialog box is displayed.
2. Select the Security Settings tab near the top of the dialog box. The security options are displayed.



3. Set the Pin Code, which is required to set the calibration and alarm settings on the DriveRight device.
4. If desired, you can enable the tamper indicator. If enabled, the tamper indicator on the DriveRight LCD screen will be displayed when a tamper event has been detected.
5. Click OK to save the settings, click Cancel to exit without saving the settings, or click on another tab to make additional changes to the DriveRight settings.

Alarm Settings
GPS Settings
Back to Setup Menu | Default DriveRight Settings | Default DriveRight Settings - View/Set

Home | Getting Started | Quick Reference | Menu Commands | Troubleshooting

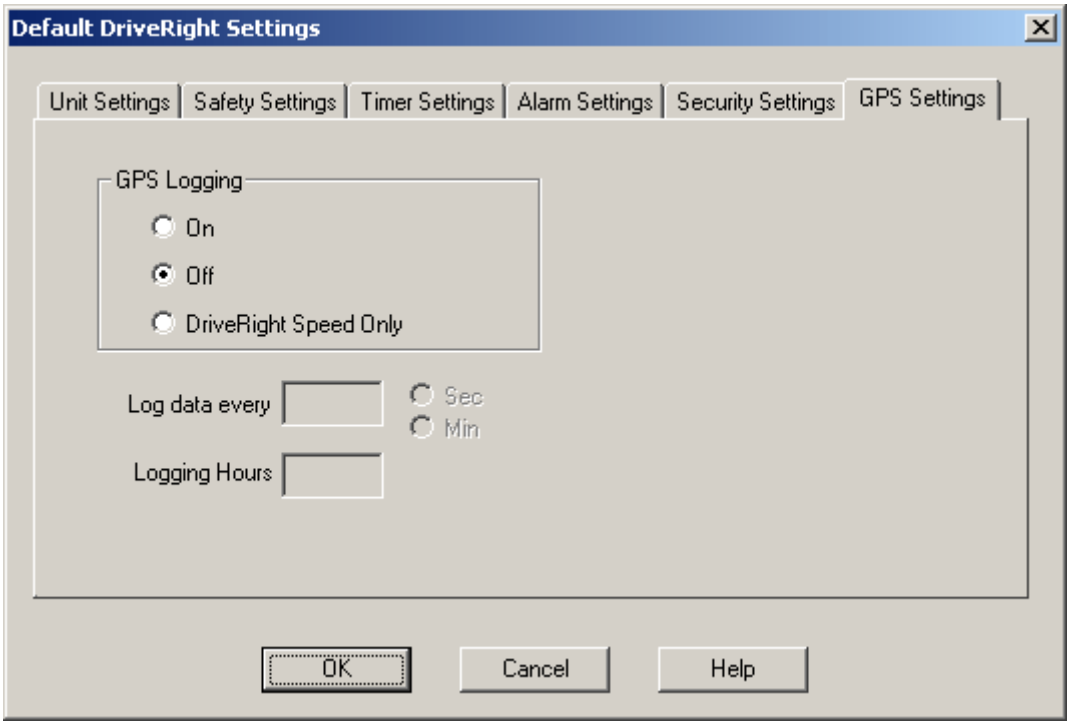
GPS Settings - Default DriveRight Settings

Use this command to create default GPS settings that can be used by all the vehicles in your fleet.

Note: Even if this feature is toggled on an off, it will only work with corresponding DriveRight 600 units with GPS modules.

To set default GPS Logging settings:

1. Select View/Set from the Default DriveRight Settings submenu from the Setup menu The Default DriveRight Settings dialog box is displayed.
2. Select the GPS Settings tab near the top of the dialog box. The GPS options are displayed.



3. Select On to turn the GPS logging feature on for all the units with a GPS module. Select Off to turn off the GPS feature for all DriveRight Devices. Select DriveRight Speed Only to log and track only the DriveRight Speed. This feature logs and tracks only the DriveRight speed for DriveRight 600 devices that are not assembled with a GPS module.
4. If On or the DriveRight Speed only button has been selected, select the Logging interval time and corresponding time unit in the Log Data Every text field. The amount of logging hours this used for this feature are displayed in Logging Hours.
5. Click OK to save the settings, click Cancel to exit without saving the settings, or click on another tab to make additional changes to the DriveRight default settings.

See Also:

Unit Settings
Safety Settings
Timer Settings
Alarm Settings
Security Settings

Back to Setup Menu | Default DriveRight Settings | Default DriveRight Settings - View/Set

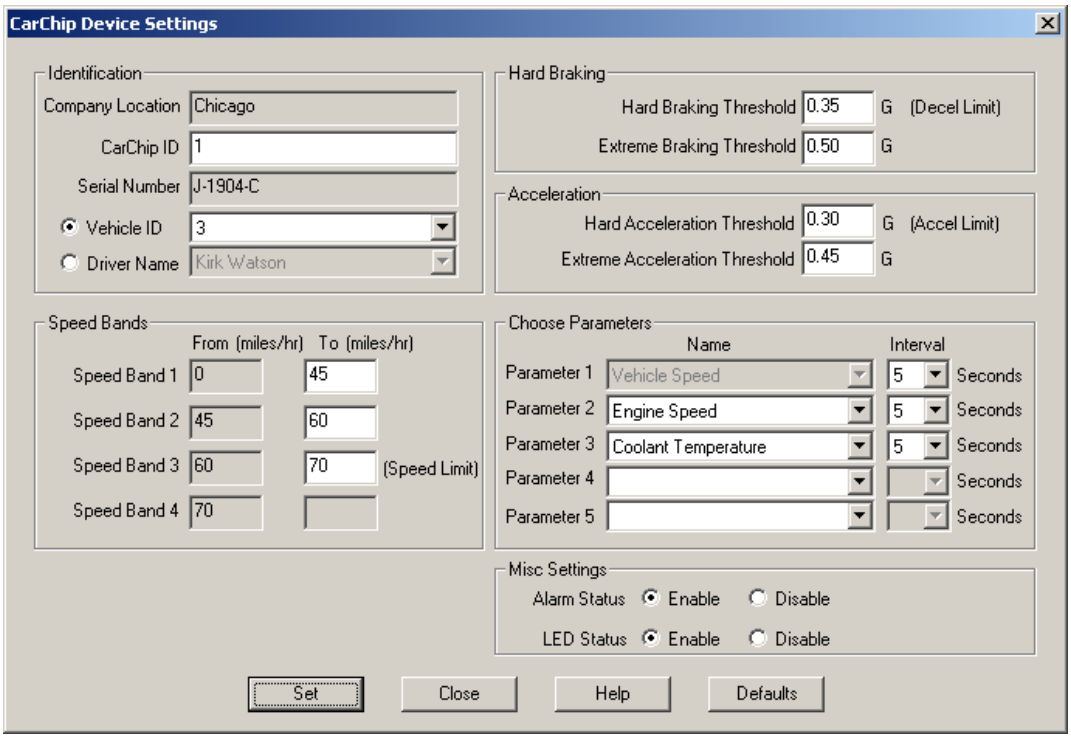
Home | Getting Started | Quick Reference | Menu Commands | Troubleshooting

Default CarChip Settings

Use the Default CarChip Settings command to view or edit the DriveRight FMS defaults for the CarChip device settings..

To view or edit the Default CarChip Settings:

1. Select Default CarChip Settings in the Setup Menu. The Default CarChip Settings dialog box is displayed.



2. You can edit the settings for Hard Braking, Acceleration, Speed Bands, and Engine Parameters.

   - The CarChip settings for Hard Braking Threshold, Hard Acceleration Threshold, and Speed Band 3 are equivalent to the DriveRight settings for Decel Limit, Accel Limit, and Speed Limit.
   - Set the Hard Braking Threshold to equal the Decel Limit used by DriveRight Devices.

- Set the Hard Acceleration Threshold to equal the Accel Limit used by DriveRight Devices.
- Set Speed Band 3 to equal the Speed Limit used by DriveRight Devices.

3. When your are finished, click OK to save any changes or click Cancel to exit without saving changes.

Back to Setup Menu

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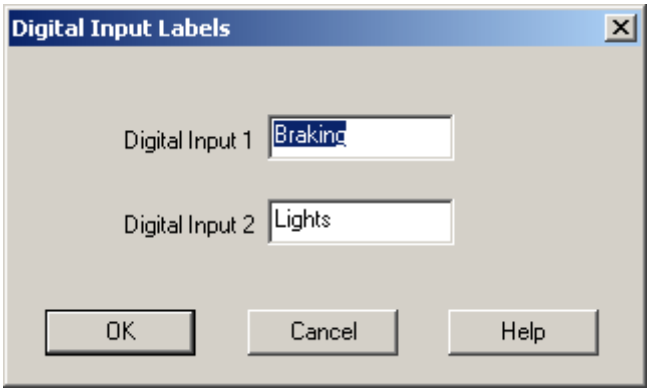
Digital Input labels

You can identify the two digital inputs signals available on a DriveRight 600 using this dialog box. Digital inputs are any variable from the vehicle that produces a high and a low voltage input. The DriveRight device records these high and low voltage differences for the inputs that you select. These digital inputs get incorporated into various database displays and reports throughout the software, such as the Accident Log Report, the Trip Database and the GPS database.

To change the digital input labels:

1. Click Digital Input Labels in the **Setup** menu. The Digital Input Labels dialog box is displayed.



2. Edit the labels used for digital input 1 and digital input 2. The following is a list of possible labels used as digital inputs:

- **Seat belts**
- **Headlights**
- **Braking**
- **Lights**
- **Windshield wipers**

Note: Depending on the selected digital input, extra setup between the DriveRight and the vehicle may need to happen to monitor these digital inputs correctly. For Example: To make "Seat belts" a digital input, locate a wire bundle underneath the driver's set, pick a wire from the bundle and test it's voltage during buckling and buckling. Do this until you find the wire that goes from 0 to 12 volts when buckling and buckling and connect it to the green wire of the adapter cable supplied

with the DriveRight. Connecting other aspects of your vehicle to be monitored by the DriveRight system varies.

3. Click **OK** to save the changes or click Cancel to exit without saving the changes.

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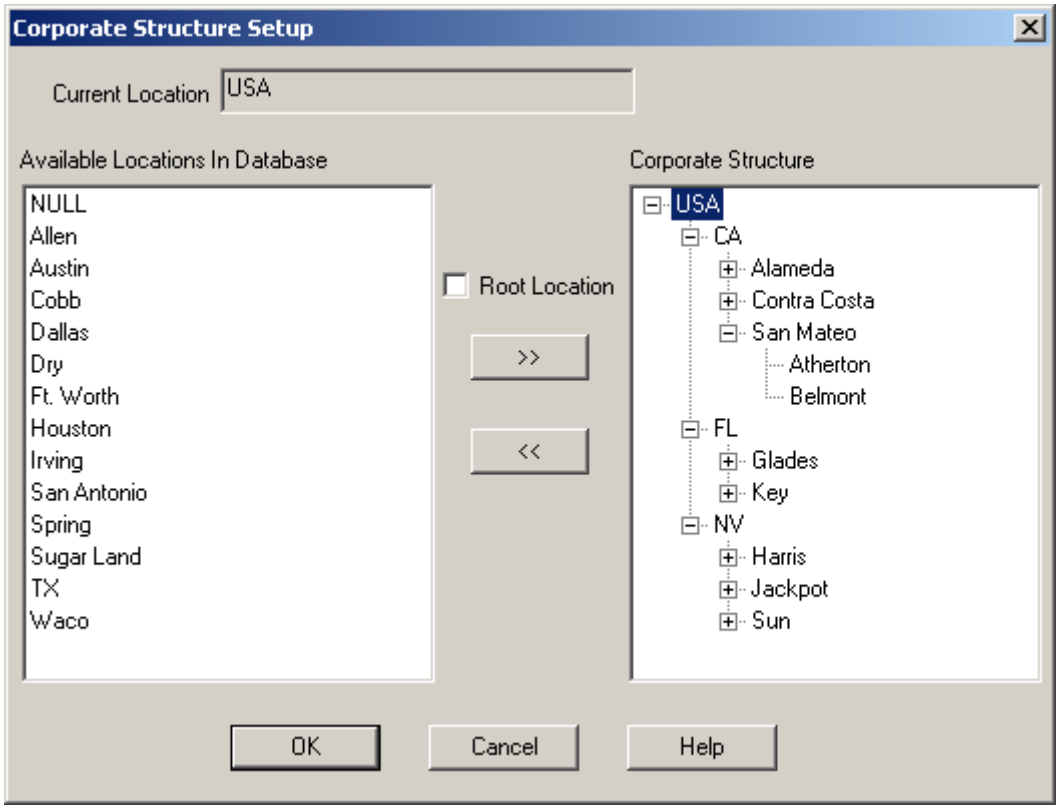
Corporate Structure

The Corporate Structure dialog box allows you to set up reporting structure for all the locations listed in a database. The resulting location structure can be used as a tool for displaying the Driver Safety Score Report, breaking up driver and fleet information based on locations and the reporting structure.

To create and edit the corporate reporting structure:

1. Select Corporate Structure from the Setup menu The Corporate Structure dialog box is displayed.



2. Use the location combo boxes to create or edit the corporate location structure. Select a Location from the Available Locations in Database box and click the **>>** button to move the Location to into the Corporate Structure box.

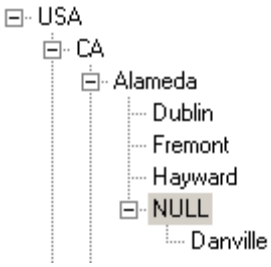
   If a selected location is a root location, meaning it is as the top of the corporate structure, Select the Root Location check box.

   To assign a location under a location, highlight the location with a higher hierarchical title

in the Corporate Structure box, select a location from the Available Locations In Database box and click the **>>** button. The selected location displays underneath the highlighted location.

To Delete a location, or hierarchy of locations, select a location and click the **<<** button. This removes the location from the corporate structure.

If there are gaps or unknown reporting structures in certain structure hierarchies, the NULL location may be used. For example, if a location reports indirectly, or through unknown paths to higher hierarchical location, the NULL location can be used to signify the unknown path or location.



3. Complete your corporate structure and click **OK** to save the corporate information, or **Cancel** to exit without saving the information.

Back to Setup Menu

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DriveRight Menu

DriveRight Menu

Use DriveRight Menu commands for functions that require direct communications with the DriveRight console.

Note: The DriveRight must be connected to your computer with the LCD display on and in the CURRENT mode in order to access the DriveRight Menu commands.

The following DriveRight Menu commands are available:

Add New DriveRight
DriveRight Settings
Download DriveRight
Download Palm
Read Accident Log
Read Tamper Log
Set Time and Date

Set Odometer

Set Service Alarms

Set Drivers List

Clear DriveRight

Back to Menu Commands

Home | Getting Started | Quick Reference | Menu Commands | Troubleshooting

Add DriveRight Wizard

DriveRight FMS includes an Add DriveRight Wizard to simplify adding DriveRight devices, Vehicles, and Drivers to the database.

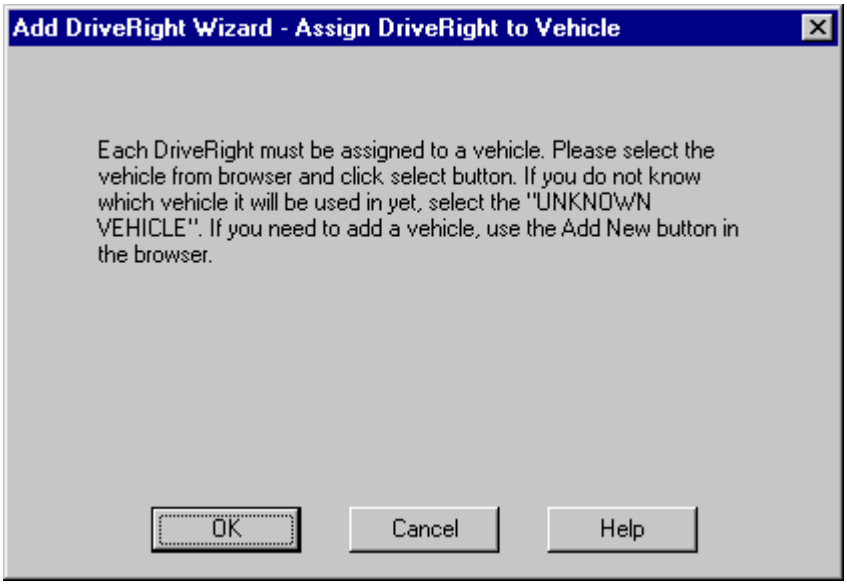
To add a new DriveRight device:

1. Select Add New DriveRight from the DriveRight Menu. The Add DriveRight Wizard - Start dialog box is displayed.

Note: The new DriveRight device must be connected to your computer and be turned on before you can add it to the DriveRight FMS database.

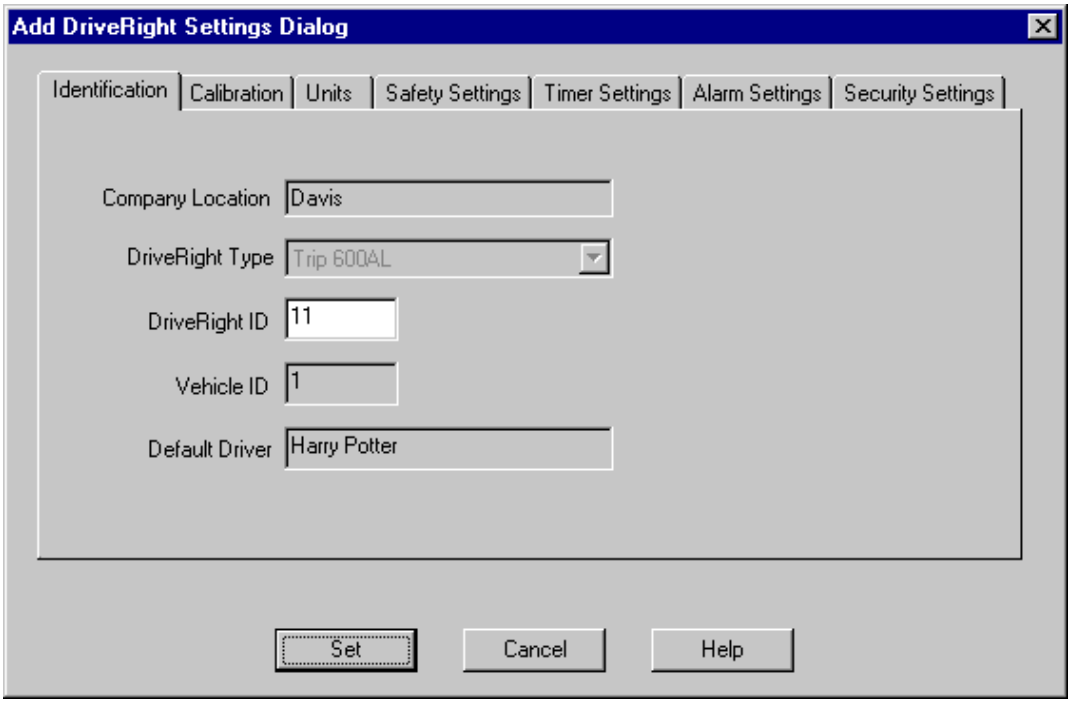
2. Click Next to continue or click Cancel to exit the Add DriveRight Wizard.
    - If you click Next, the Add DriveRight Wizard - DriveRight ID dialog box is displayed.

3. Click Next to continue or click Cancel to exit the Add DriveRight Wizard.
   - o If you click Next, the Add DriveRight - Assign to Vehicle dialog box is displayed.



4. Click OK to continue, or click Cancel to exit the Add DriveRight Wizard.

5. If you click Ok, the Add DriveRight Settings dialog box is displayed. The Add DriveRight Settings Dialog allows you to review all of the settings for the new DriveRight, including those settings that are set by the DriveRight defaults.



6. When you are satisfied it is set up correctly, select Set to save the settings. Select Cancel to exit the setup dialog and abandon the DriveRight settings.

Note: If you cancel the setup, you will lose the DriveRight settings but any vehicles or drivers you added to the database will remain.

Back to DriveRight Menu

Home | Getting Started | Quick Reference | Menu Commands | Troubleshooting

DriveRight Settings

The following commands allow you to view and or change the settings on a DriveRight device:

View/Set
Restore
Setup GPS
Verify DriveRight Calibration

Back to DriveRight Menu

Home | Getting Started | Quick Reference | Menu Commands | Troubleshooting

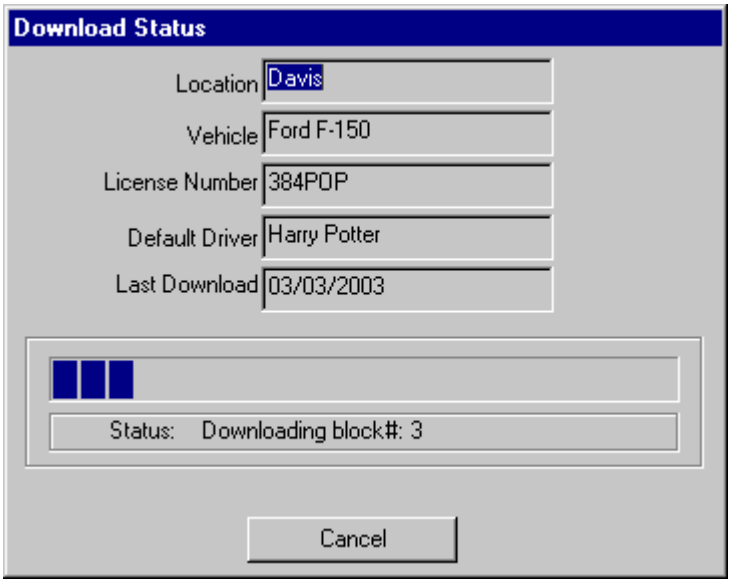
Download DriveRight

The Download DriveRight command transfers trip data from the connected DriveRight device to the DriveRight database.

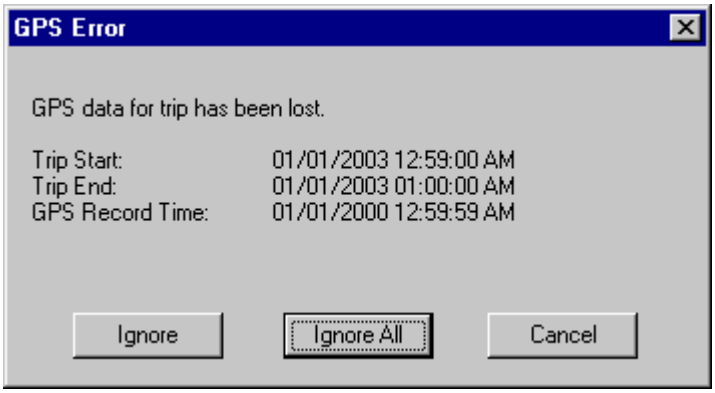
To download your DriveRight:

1. Connect your DriveRight console to your computer and make sure the DriveRight is "awake". Press the MODE key if there is nothing on the LCD display.
2. Select Download DriveRight in the DriveRight Menu. The following Download Status box is displayed:

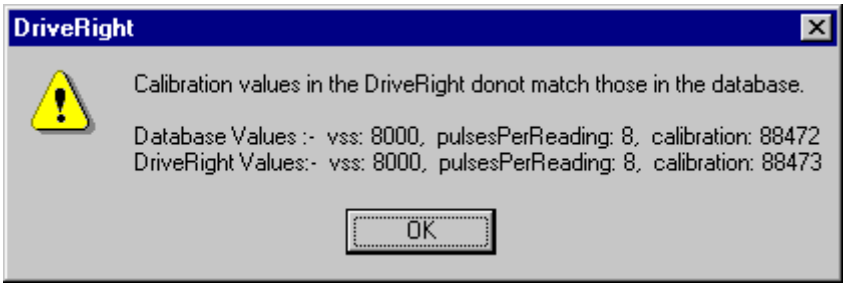
Note: You will see the Cancel button only if you are downloading a DriveRight 600.



3. You may lose GPS data for earlier trips if the DriveRight console is not downloaded for an extended period of time. In this case you will see a warning message similar to this:



4. If the calibration in the DriveRight console does not match the calibration in the database, you will see a warning message similar to this:



5. When the data has finished downloading the following dialog box is displayed:

6. Press Enter or click OK to continue.

See also:

Downloading DriveRight Guidelines

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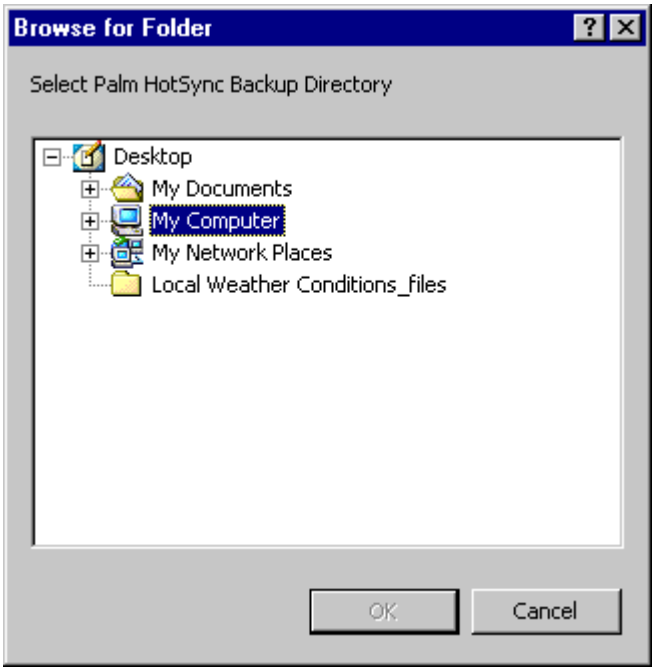
Download Palm

DriveRight 3.0 offers a new feature to download data from multiple DriveRight devices from a Palm device. You will need the DriveRight Palm Download Kit, #8181, in order to use this command.

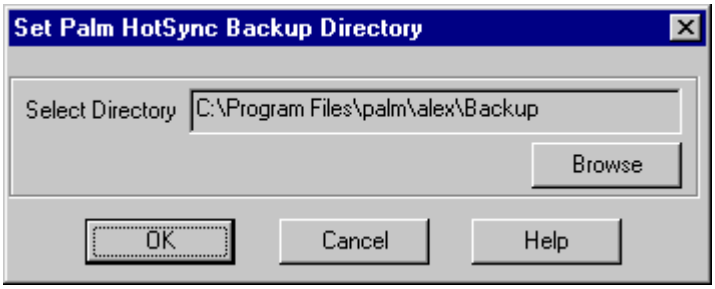
Note: To download a DriveRight console data into the software using Palm Download, the DriveRight should be present in the database. If you try to download a DriveRight which is not present in the database, you will get an error message.

To download your Palm:

1. Select Download Palm in the DriveRight Menu.
2. The first time you download a Palm, the following dialog box is displayed. Select the directory which contains your Palm backup databases and click OK.

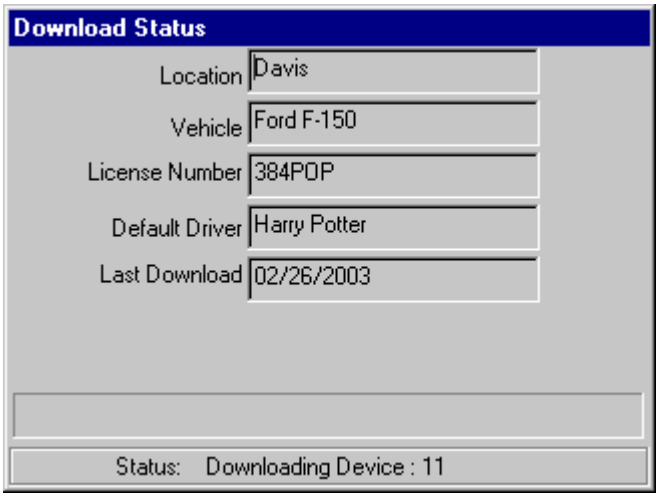


3. Each time after the first time, when you use the Download Palm command, the following dialog box appears showing the selected Palm backup directory.



4. Click Browse to select a different backup directory, click OK to use this displayed directory, or click Cancel to exit.

5. If you click OK the Download Status dialog box is displayed.



6. When the data has finished downloading the Palm Download, Download Successful dialog box is displayed:

7. Click OK to continue.

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Read Accident Log

The Read Accident Log command will download accident log data from the connected DriveRight device, convert it to a text file, and display it using MS Notepad.

To read the accident log:

1. Select Read Accident Log in the DriveRight Menu. The accident log is displayed.

See also:
Accident Log

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Read Tamper Log

The Read Tamper Log command will download Tamper Log data from the connected DriveRight device, convert it to a text file, and display it using MS Notepad. The Tamper Log holds the times and dates when the driver disconnected the DriveRight or tried to change the DriveRight Settings.

Note: There must be a Settings PIN-Code in the unit to enable the logging of disconnect times.

To read the tamper log:

1. Select Read Tamper Log in the DriveRight Menu. The tamper log is displayed.

See also:

Tamper Log

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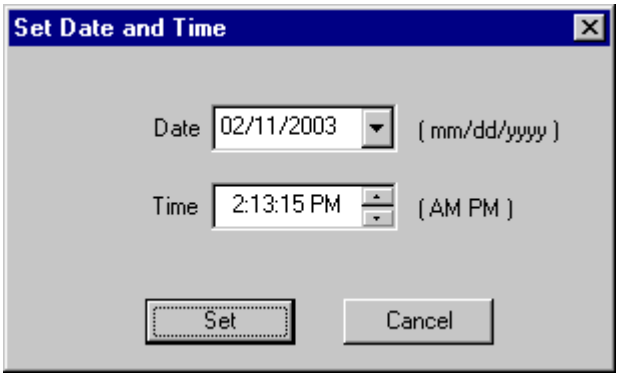
Set Time and Date

Use this command to set the time and date on a DriveRight device.

To set the time and date on a DriveRight:

1. Select Set Time and Date from the DriveRight Menu. The Set Time and Date dialog box is displayed.



2. Set the Date by either clicking the month, day or year in the edit box and entering the new information, or by clicking on the down arrow and selecting the date from the drop-down calendar.

3. Set the time by clicking on the hour, minute or second in the edit box and entering the new time. You can also adjust the time settings up and down using the up and down arrows in the edit box.

4. Click on Set to change the time and date on the DriveRight unit or click on Cancel to exit the dialog box without changing the settings.

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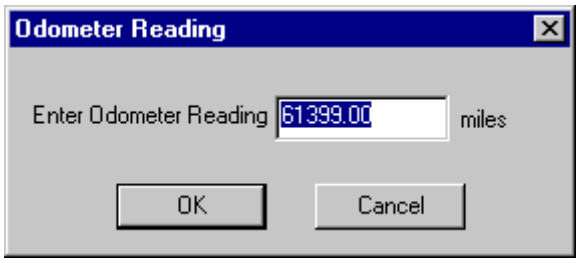
Set Odometer

Use this command to set the vehicle odometer reading in a DriveRight device.

To set the odometer in a DriveRight:

1. Select Set Odometer from the DriveRight Menu. The Set Odometer dialog box is displayed showing the current odometer reading.



2. You can now edit the vehicle's odometer reading.
3. Click on OK to update the odometer reading on the DriveRight unit or click on Cancel to exit the dialog box without changing the settings.

Note: When you set the odometer DriveRight FMS updates the current odometer value of the vehicle assigned to this DriveRight and also adds a new entry in the Odometer Logs Table.

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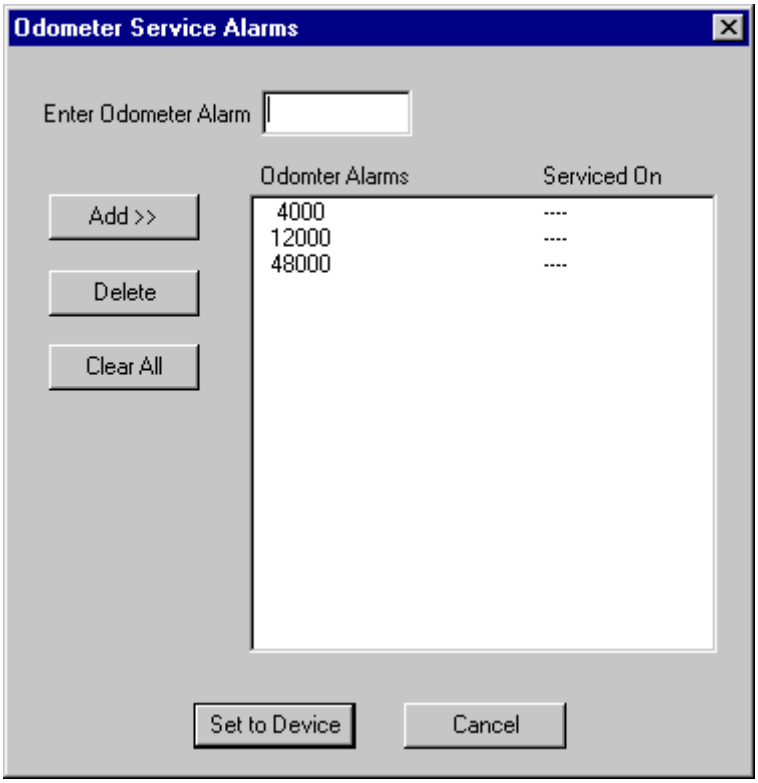
Set Service Alarms

Note: Available for the DriveRight Trip 500 AL only.

Each vehicle needs a service check from time to time. With the Set Service Alarms option you can specify the Odometer Readings on which the vehicle should go in for service. After defining a Service Schedule you can assign it to a vehicle and load it into the DriveRight Trip 500AL using the Set Service Alarms command in the DriveRight menu. As soon as any defined odometer readings are reached, a warning signal is activated in the vehicle indicating the driver to bring his vehicle in for a service check, or call his service center for an appointment.

To set a service alarm:

1. Select Set Service Alarms from the DriveRight Menu. The Set Service Alarms dialog box is displayed.



2. Enter the odometer reading for a service alarm.
3. Click the Add>> button to add the service alarm for that odometer reading.
4. Click on an odometer reading to highlight it, then click the Delete button to remove a specific service alarm.
5. Click the Clear All button to remove all service alarms.
6. Click on Set to Device to update the service alarm settings on the DriveRight unit or click on Cancel to exit the dialog box without changing the settings.

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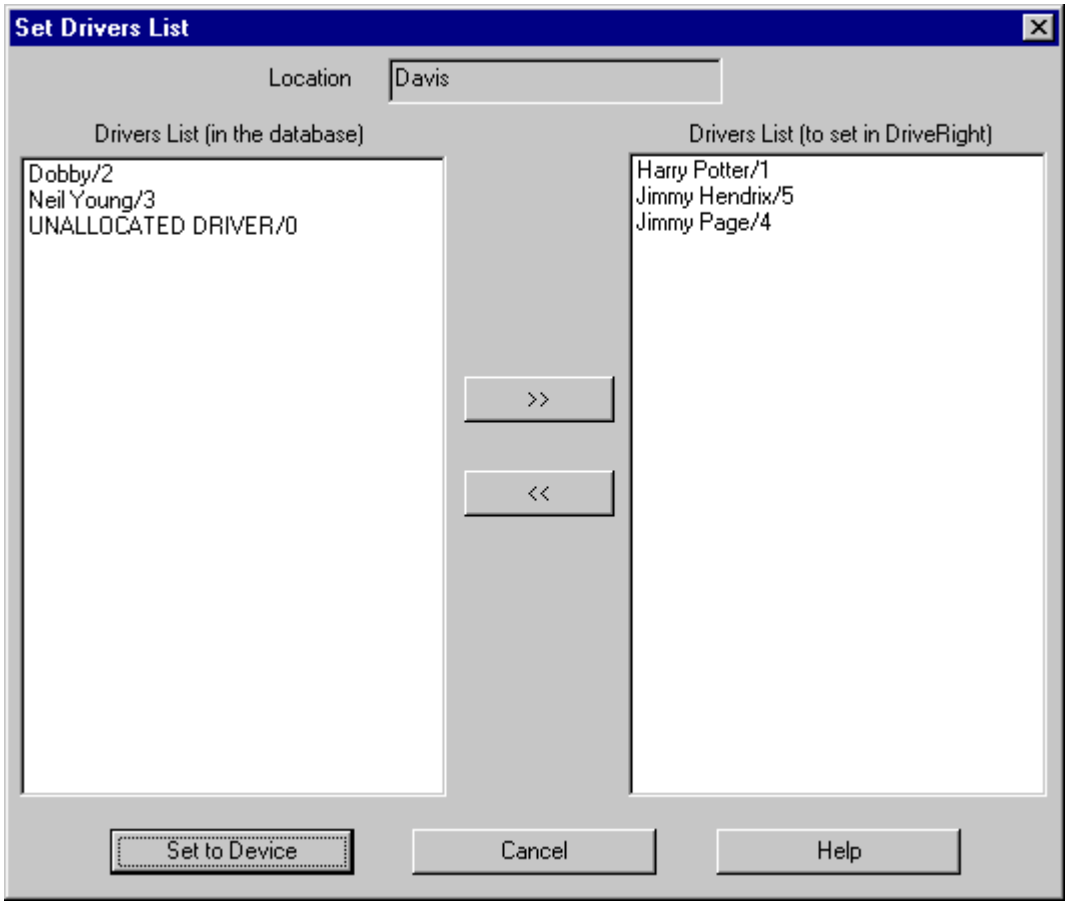
Set Drivers List

This is a new feature added in DriveRight 3.0. DriveRight 600 device provides a security feature which lets the operator set up to 100 drivers' codes into the device to have access.

To set the drivers list:

1. Select Set Drivers List from the DriveRight Menu. The Set Drivers List dialog box is displayed. Drivers already assigned to this DriveRight are displayed in the right column. Drivers not assigned to this DriveRight are displayed in the left column.

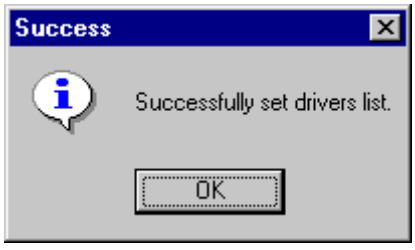


2. Click on a driver's name to select the driver, the click on the right arrows ">>" to move the driver to the "to set in DriveRight" list.

3. To remove a driver from the DriveRight list, click on a driver's name to select the driver, then click on the left arrows "<<" to move the driver off the DriveRight list.

4. Click on Set to Device to update the drivers list on the DriveRight unit or click on Cancel to exit the dialog box without changing the drivers list.

5. If you click on Set to Device, then you will see the following dialog box if the action is successful. Click on OK or press Enter to continue.



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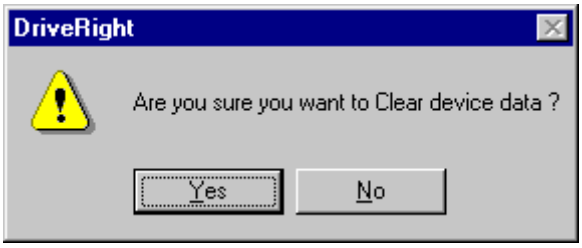
Clear DriveRight

The Clear DriveRight command clears all trip data in the connected DriveRight.

To Clear your DriveRight:

1. Select Clear DriveRight in the DriveRight Menu. The following DriveRight dialog box is displayed:



2. Click Yes to clear the DriveRight device, click No to cancel the command.

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CarChip Menu

CarChip Menu

Use CarChip Menu commands for functions that require direct communications with the CarChip device.

Note: The CarChip device must be connected to your computer in order to access the CarChip Menu commands.

The following CarChip Menu commands are available:

Add New CarChip
CarChip Settings
Download CarChip
Set Time and Date
Set CarChip LED State
Display CarChip Memory
Show CarChip Info
Clear CarChip Memory

Add CarChip Wizard

DriveRight FMS includes an Add CarChip Wizard to simplify adding CarChip devices to the database. Click on the links provided for each of the Add CarChip Wizard dialog boxes to see more detailed information.

To add a new CarChip device:

1. Select Add New CarChip from the CarChip Menu. The Add CarChip Wizard - Start dialog box is displayed.

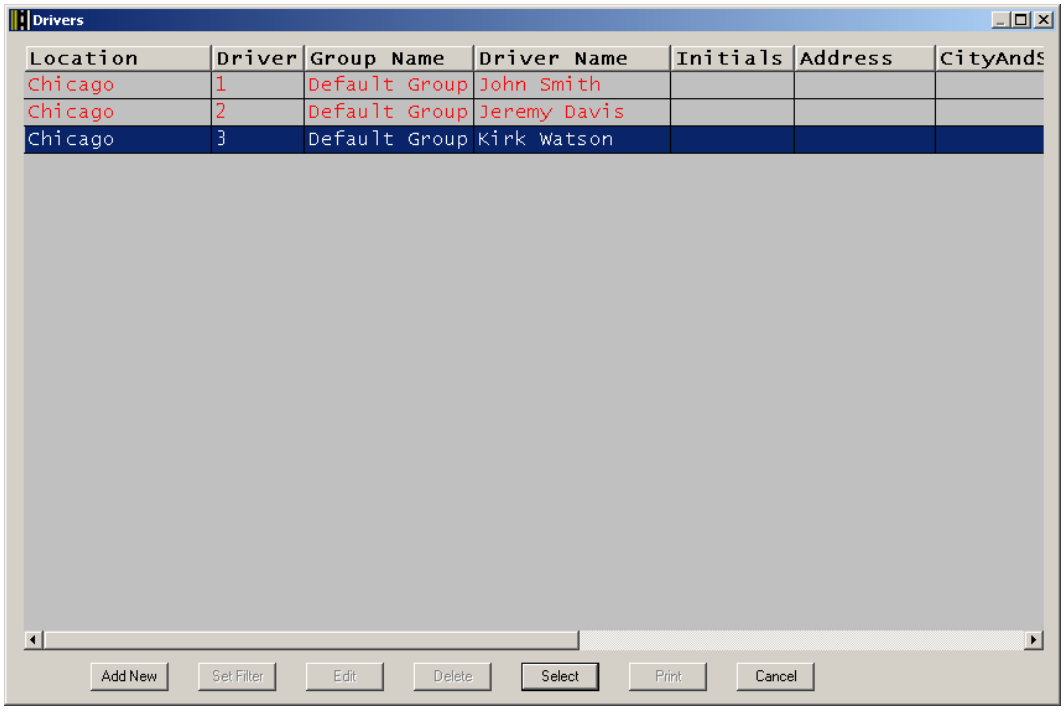
Note: The new CarChip device must be connected to your computer in order to add it to the DriveRight FMS database.

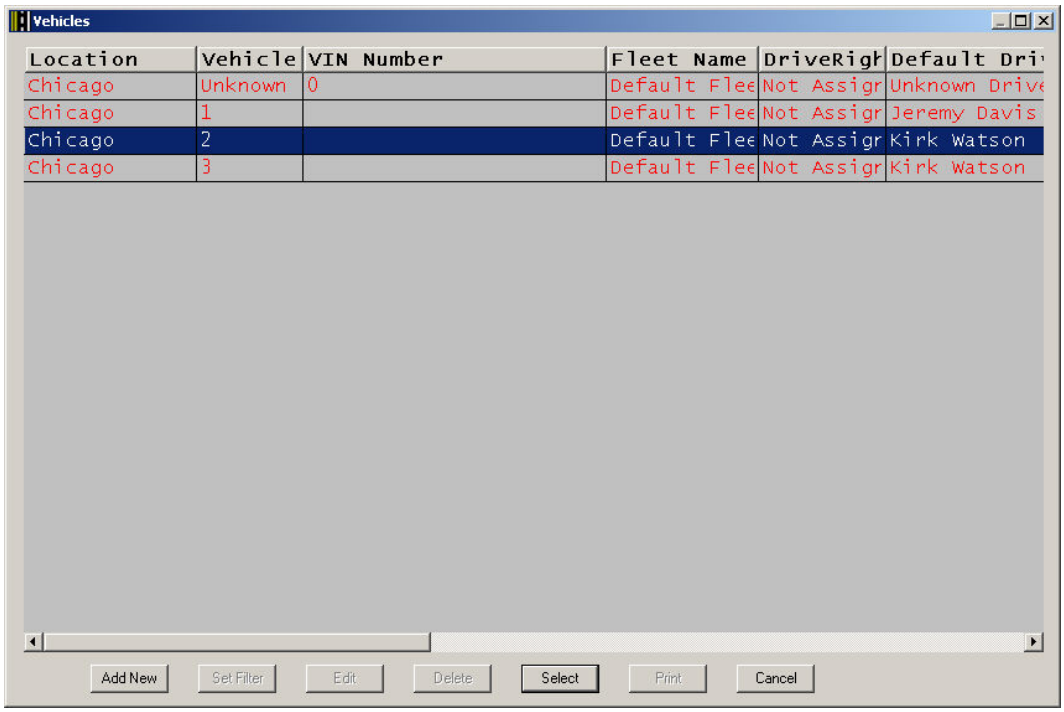
2. Click Next to continue or click Cancel to exit the Add CarChip Wizard.
    - If you click Next, the Add CarChip Wizard - CarChip ID dialog box is displayed.

3. Click **Next** to continue or click **Cancel** to exit the **Add CarChip Wizard**.
    - If you click Next, the Add CarChip Wizard - Assign dialog box is displayed.

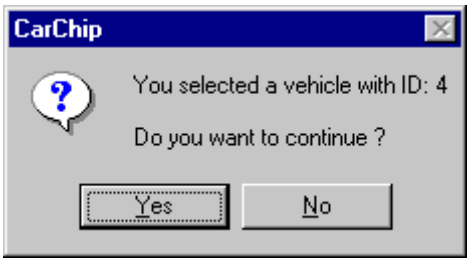
Note: CarChip should be assigned to either a vehicle or driver. If it is assigned to a vehicle, the default driver of that vehicle appears on all the data downloaded. If a CarChip is assigned to a driver, then all data downloaded from that CarChip will be associated with that driver and the vehicle will be listed as UNKNOWN VEHICLE. This is useful if the driver uses multiple vehicles with the same CarChip. Based on your particular case, you should carefully choose between assigning a CarChip to a vehicle or a driver.

4. After assigning the CarChip to either a vehicle or to a driver, Click Next to continue or click Cancel to exit the Add CarChip Wizard.
   If you are assigning the CarChip to a vehicle, the *Vehicles database table* is displayed. Click on a vehicle record in the database table to highlight it, then click **Select** to assign the CarChip to the selected vehicle.
   If you are assigning the CarChip to a driver, the *Drivers database table* is displayed. Click on a driver record in the database table to highlight it, then click **Select** to assign the CarChip to the selected driver.

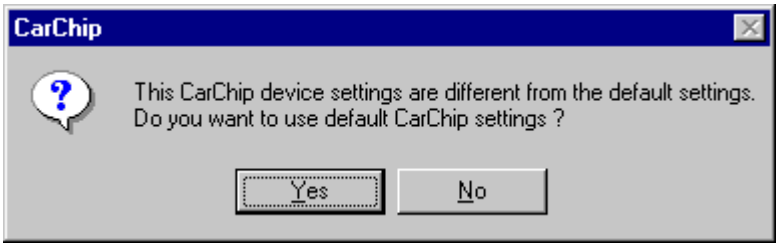




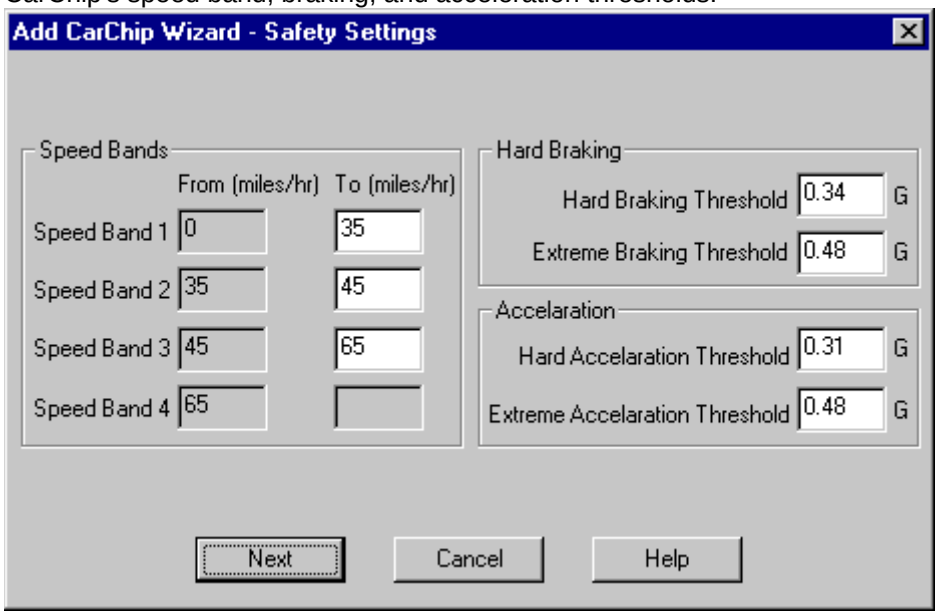
5. After selecting a vehicle or driver from their respective database tables, the **CarChip** dialog box is displayed. Click **Yes** to continue or click **No** to return to the database table and make another selection.



6. If the settings in the CarChip you are adding are different from the default CarChip settings in the database, The **CarChip Default Settings** dialog box is displayed. Click **Yes** to configure the CarChip with the default settings or click **No** to use the existing CarChip Settings.

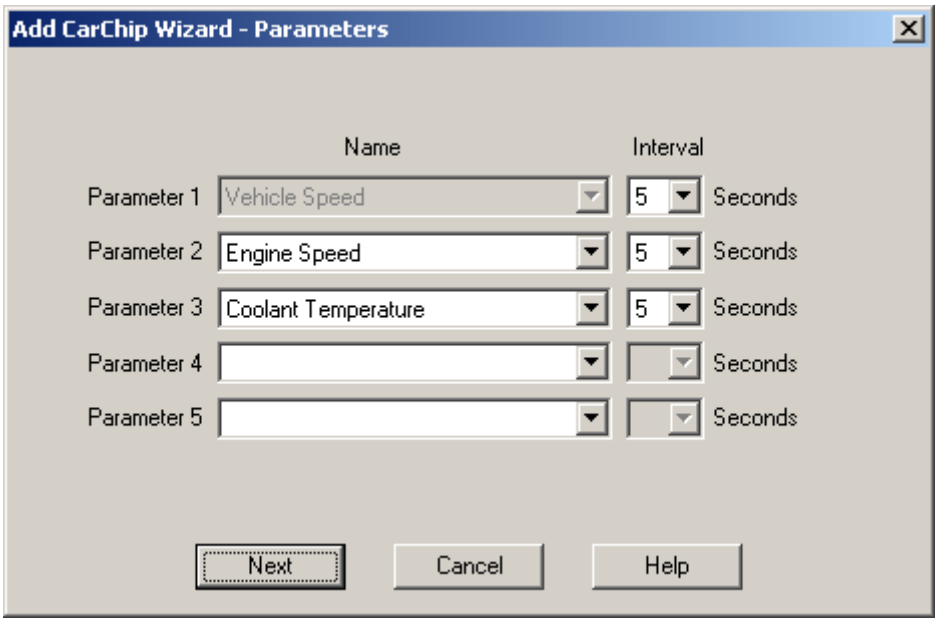


7. The Add CarChip Wizard - Safety Settings dialog box is displayed. This shows the CarChip's speed band, braking, and acceleration thresholds.



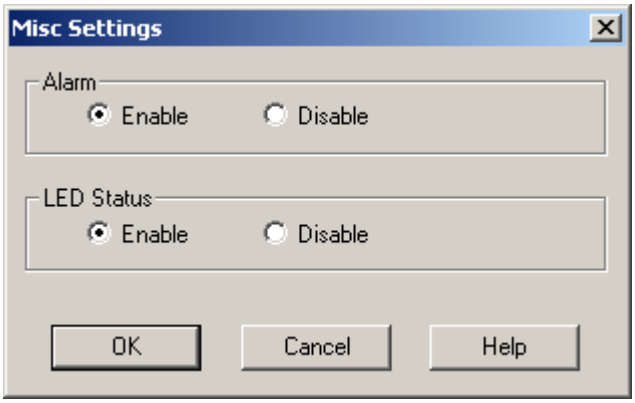
8. When you are satisfied with the safety settings, click on **Next** to continue or click **Cancel** to exit the Add CarChip Wizard.

9. The Add CarChip Wizard - Parameters dialog box is displayed. This shows the engine and vehicle performance parameters that CarChip logs and the sample interval rates for each parameter.

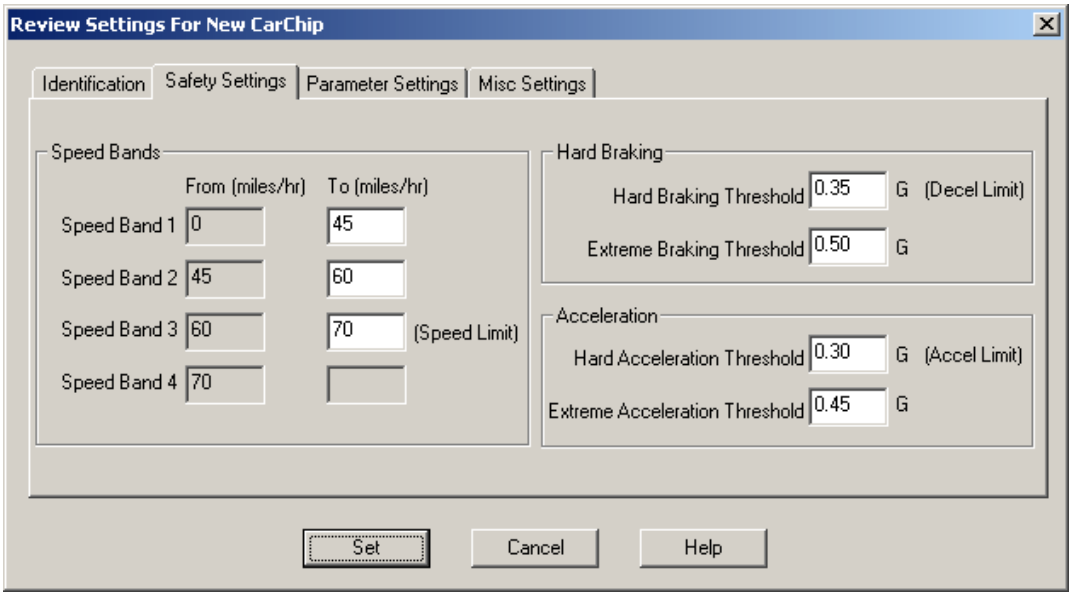


10. When you are satisfied with the parameter settings, click **Next** to continue or click **Cancel** to exit the Add CarChip Wizard.

11. The **Miscellaneous Settings** dialog box is displayed. Enable or disable extra CarChip features, such as Alarm and LED Status using this dialog box. The Alarm feature only works with CarChip Fleet with Alarm (# 8245). Enabling this feature for a CarChip Fleet without alarm will not work.

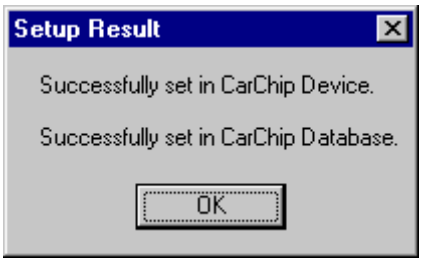


12. The **Review Settings For New CarChip** dialog box is displayed. This dialog box allows you to review the identification, safety, and parameter and miscellaneous settings for the new CarChip one last time before you add it to the database.



13. When you are satisfied with the CarChip settings, click **Set** to add the CarChip to the database and to update the CarChip device settings. Select **Cancel** to exit the Add CarChip Wizard without adding the CarChip to the database or updating the CarChip device settings.

14. When the CarChip has been successfully added to the database and the CarChip settings have been updated you will see the following **Setup Result** dialog box.



15. Click **OK** to continue.

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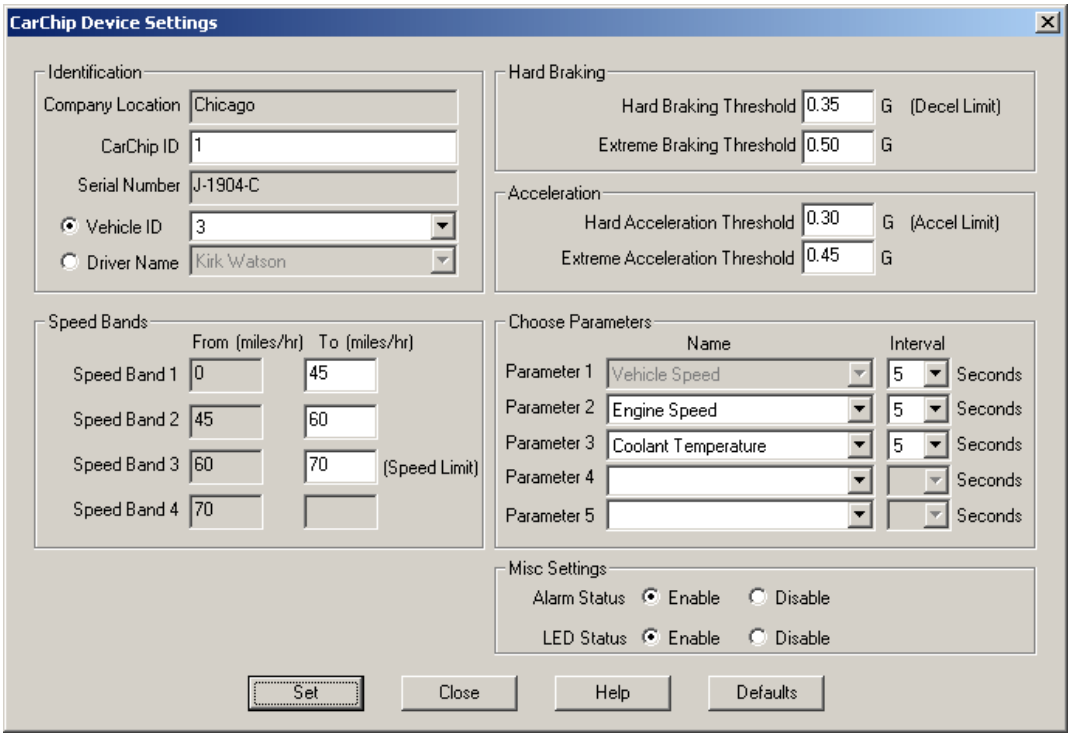
CarChip Settings

Use the CarChip Settings command in the CarChip Menu to quickly view all CarChip settings, to add a CarChip to the database or to edit CarChip settings.

1. Select CarChip Settings from the CarChip Menu. The CarChip Device Settings dialog box is displayed.



2. Make any desired changes. For more information on the CarChip settings, click on the links below:

CarChip ID

Hard Braking, Acceleration and Speed Bands

Choose Parameters

Miscellaneous Settings

Note: If you change the vehicle assigned to a CarChip, the vehicle table will also be changed to reflect the new assignment.

Note: If you assign a vehicle to a CarChip that had been previously assigned to a DriveRight device, the vehicle assignment for that DriveRight will be changed to "UNASSIGNED VEHICLE".

3. If necessary, click **Defaults** to change the CarChip Hard Braking, Acceleration, Speed Bands, and Engine Parameters to the DriveRight FMS CarChip default settings.

4. Click **OK** to save the changes or click Cancel to exit without saving.

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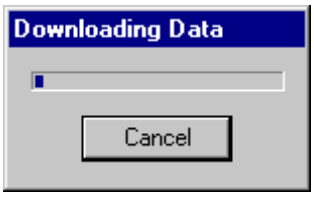
Download CarChip

Use this command to download data from your CarChip data logger into your computer.

To download CarChip data:

1. Connect your CarChip device to your computer.

2. Choose Download CarChip from the CarChip menu. The Downloading Data dialog box appears.



2. The dialog box disappears when the download is complete.
3. Choose Cancel only if you wish to abort the download before it is finished.

See also:

Downloading CarChip Guidelines

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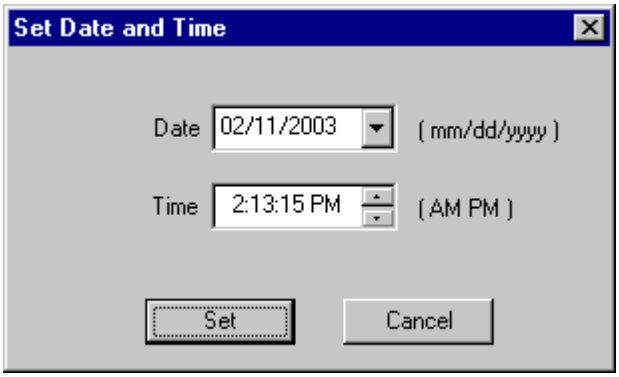
Set Time and Date

Use this command to set the time and date on a CarChip device.

To set the time and date on a CarChip:

1. Select Set Time and Date from the CarChip Menu. The Set Time and Date dialog box is displayed. The dialog box shows your computer's current time and date.



2. Set the Date by either clicking the month, day or year in the edit box and entering the new information, or by clicking on the down arrow and selecting the date from the drop-down calendar.

3. Set the time by clicking on the hour, minute or second in the edit box and entering the new time. You can also adjust the time settings up and down using the up and down arrows in the edit box.
4. Click on Set to change the time and date on the CarChip device or click on Cancel to exit the dialog box without changing the settings.

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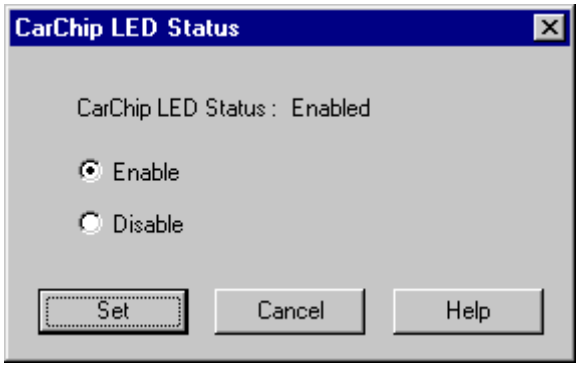
LED Status

Use the CarChip LED Status command to view or change the CarChip LED status configuration.

To change the CarChip Status LED:

1. Choose Set CarChip LED State in the CarChip Menu. The CarChip LED Status dialog box is displayed showing the current state.



2. Click Enable if you wish to turn on the CarChip Status LED.
3. Click Disable if you wish to turn off the CarChip Status LED.
4. Click Set to configure the Status LED with the current setting or click Cancel to exit.

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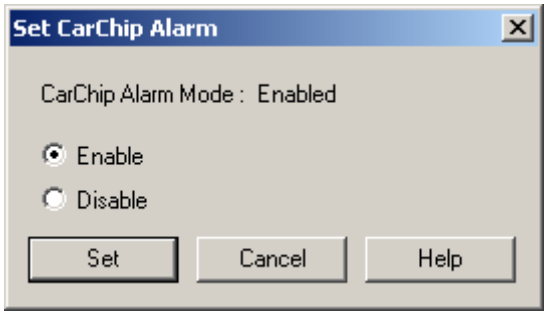
CarChip Alarm

Use the CarChip Alarm command to view or change the CarChip Alarm status.

To change the CarChip Alarm status:

1. Select Set CarChip Alarm in the CarChip Menu. The CarChip Alarm dialog box is displayed showing the current state.



2. Click Enable if you wish to turn on the CarChip Alarm.
3. Click Disable if you wish to turn off the CarChip Alarm.
4. Click Set to configure the alarm with the current setting or click Cancel to exit.

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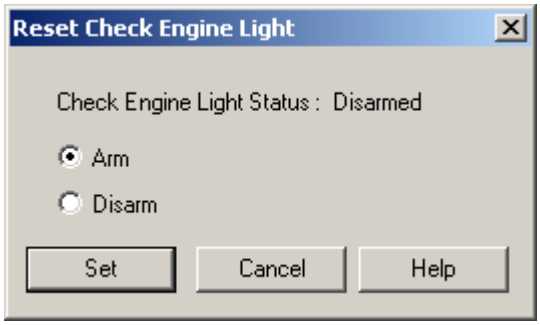
Reset Check Engine Light

Use the CarChip Reset Check Engine Light command to turn the CarChip Reset Check Engine Light feature on and off. Arming this feature resets the check engine light in the vehicle the CarChip is used in. Disarming this feature means that the CarChip does not reset the check engine light.

To change the CarChip Reset Check Engine Light status:

1. Select Reset Check Engine Light in the CarChip Menu. The dialog box is displayed showing the current state.



2. Click Arm if you wish to turn on the CarChip Alarm.
3. Click Disable if you wish to turn off the CarChip Alarm.
4. Click Set to configure the alarm with the current setting or click Cancel to exit.

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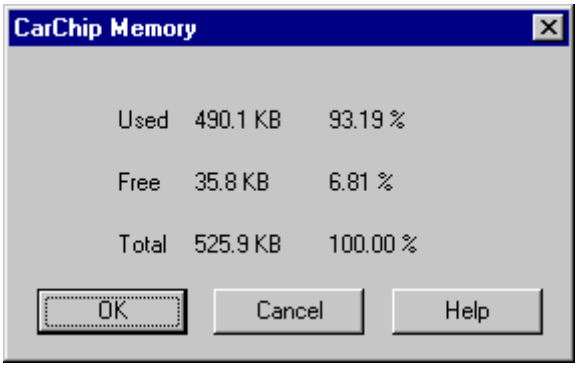
Display CarChip Memory

Use this command to show memory usage by the CarChip device.

1. Choose Display CarChip Memory from the CarChip menu. The CarChip Memory dialog box appears.



2. Click OK to close the dialog box.
    - The amount of memory is displayed in kilobytes as well as the percentage of the available memory used.
    - "Used" shows the amount of memory occupied by data.
    - "Free" shows amount of memory available for new data.
    - "Total" shows the total amount of memory in the data logger.

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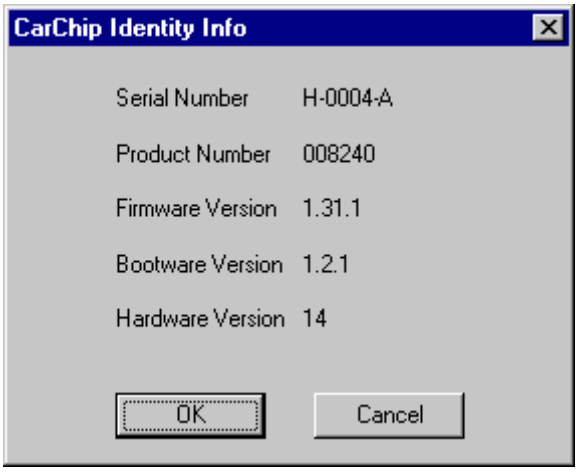
Show CarChip Info

Use this command to show the firmware, bootware, and hardware version information for the currently connected CarChip device.

1. Choose Show CarChip Info from the CarChip menu. The CarChip Identity Info dialog box appears.



2. Click OK to close the dialog box.

Back to CarChip Menu

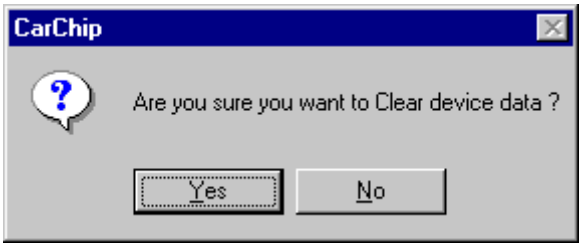
Home | Getting Started | Quick Reference | Menu Commands | Troubleshooting

Clear CarChip Memory

The Clear CarChip Memory command clears all trip data in the connected CarChip.

To clear CarChip memory:

1. Select Clear CarChip Memory in the CarChip Menu. The following CarChip dialog box is displayed:



2. Click Yes to clear the CarChip device, click No to cancel the command.

Back to CarChip Menu

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SmartCard Menu

Use SmartCard Menu commands for functions dealing directly with the SmartCard device or the DriveRight devices in your fleet that are part of the SmartCard System..

Note: The SmartCard Reader must be connected and a valid SmartCard (meaning a card you wish to set up or an existing card you wish to download) must be connected to your computer to access Smart Menu commands.

The following DriveRight Menu commands are available:

SmartCard Download

SmartCard Setup Card

Transfer to DriveRight

Clear Transfer Data

SmartCard Erase

Back to Menu Commands

Home | Getting Started | Quick Reference | Menu Commands | Troubleshooting

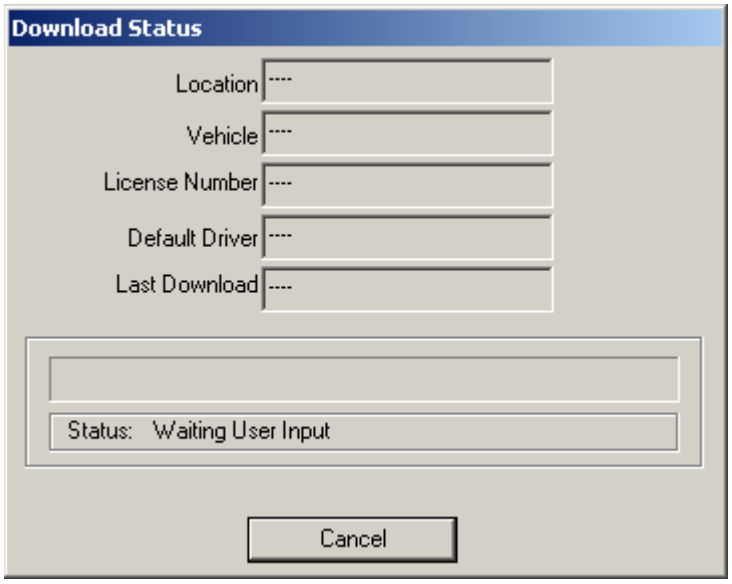
SmartCard Download

The SmartCard Download command allows you to download data from a SmartCard containing data. To use this function:

1. Insert the card you which to download into the Desktop Reader.

Note: If you have not already done so, test the connection between the SmartCard Desktop Reader by using the SmartCard Reader command in the **Setup** Menu.

2. Select Download from the **SmartCard** menu. The information in the card is automatically downloaded into the database for the assigned user and DriveRight, location, etc.



During the download process, the software could display any of the following status messages or error messages. They include:

- Data not properly downloaded from card.
- Vehicle not assigned to the corresponding DriveRight device

- If device settings don't match with the settings in the database.
- If the card is pulled out in the middle of downloading.

Note: The FMS software always prompts the user to download trip data before it will allow other information to be transferred onto the card. This ensures that the trip data is safely logged in the database. Adding items to transfer back to the DriveRight will overwrite trip data.

Once download is complete, the dialog box closes.

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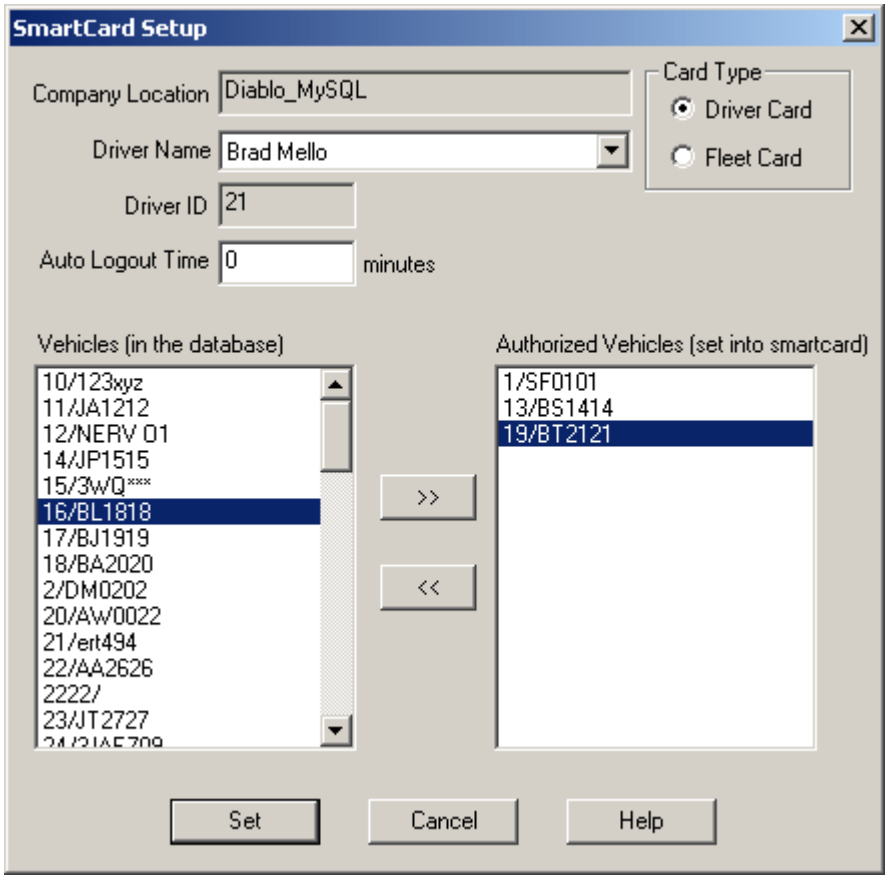
Setup Card

The Setup Card command in the **SmartCard** menu allows you to program new unused SmartCards with Driver and DriveRight information.

To setup a new SmartCard:

1. Insert a new unused card into the Desktop reader.
2. Select Setup Card from the SmartCard menu. The Setup Card dialog box is displayed.



3. Select the Driver card radio button if this card will be assigned to an individual driver or select Fleet if this card controls settings for all of your fleet.

4. Select the driver name the card is assigned to, or select Unknown Driver (none) if all drivers in your fleet have privileges to the same card. If a starter interrupter is put in place with the SmartCard System, this means the user having the proper DriveRight ID assigned to the driver card will allow that driver to start the vehicle.
5. Enter the Auto Logout Time for this card. This is the time span in which this card will automatically log itself out of a DriveRight System if the vehicle has not been started.
6. Select up to 5 vehicles the assigned driver has access to using this card from the Vehicles in the Database combo box and click the >> button. The selected vehicles display in the Authorized Vehicles list. If you wish to take off a vehicle from the Authorized Vehicles list, select the vehicle name and click the << button.
7. Click Set to program the new SmartCard with this information or click cancel to exit without saving the new information to the SmartCard.

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SmartCard Transfer to DriveRight

SmartCard Transfer to DriveRight

Use the Transfer to DriveRight menu to assign a SmartCard information to transfer to a DriveRight device, such as driver identification, clock adjustment information, and driver lists. The commands available in the Transfer to DriveRight menu are:

Settings

Driver List

Clock Adjustment

Back to SmartCard Menu

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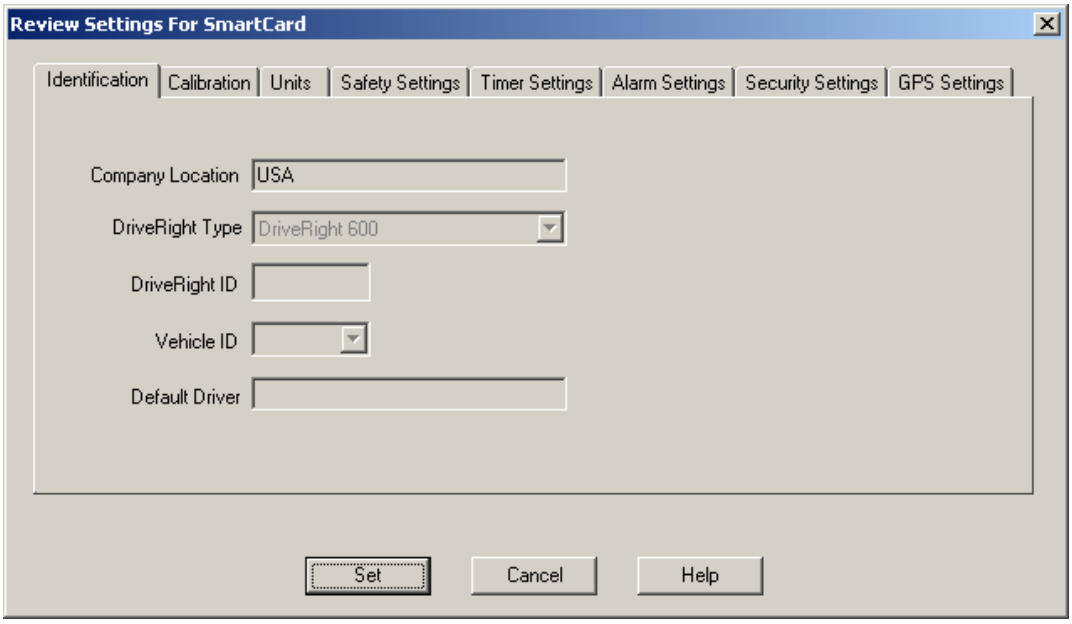
Transfer to DriveRight Settings

Transfer to DriveRight Settings

Use the Transfer to DriveRight Settings command to edit and transfer settings to a selected DriveRight Device via the SmartCard system.

To view or edit the DriveRight Settings that can be transferred to the DriveRight via the SmartCard:

1. Select Transfer to DriveRight in the **SmartCard** Menu.
2. Select Settings from the list of commands. The **Review Settings for SmartCard** dialog box is displayed.



3. Select a tab to view or edit the following default settings:
    - Identification: Select the DriveRight ID and Driver associated with the card.
    - Calibration: Select calibration settings that the DriveRight device should use.
    - Unit Settings: Select the date, time and unit modes and click OK.
    - Safety Settings: Enter the speed, acceleration and deceleration limits and click OK.
    - Timer Settings:Enter the trip stop time and driver log out time and click OK.
    - Alarm Settings: Select the alarm mode. Warn if not logged in is an option.
    - Security Settings: Enter the security code (PIN code). Tamper indicator is an option.
    - GPS Settings: Turn the GPS logging and subsequent mapping feature on and off and select mapping features. Works only with DriveRight 600 units with GPS modules.
4. When your are finished, click OK to save any changes or click Cancel to exit without saving changes.

Back to Transfer to DriveRight | SmartCard Menu

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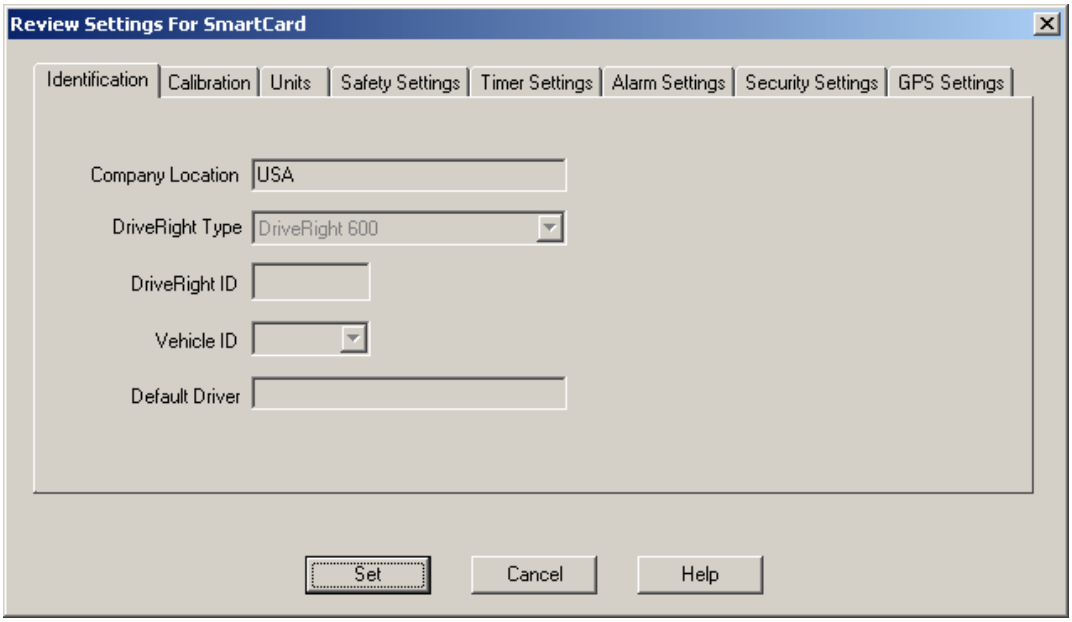
Identification Settings - SmartCard

Use this command to identify the DriveRight device receiving the new settings from the SmartCard. The Identifcation settings control which DriveRight device gets the modifications assigned in the **Review Settings for SmartCard** dialog box.

To select the identification settings:

1. Select Transfer to DriveRight from the **SmartCard** Menu.

2. Select Settings from the Transfer to DriveRight submenu. The **Review Settings for SmartCard** dialog box is displayed. The Identification Tab is the default tab that is displayed upon opening the dialog box.



3. Select the DriveRight device, ID, vehicle ID and default driver the device will be programmed to recieve.

4. Click Set to save the Identification Settings, click Cancel to exit without saving the settings, or click on another tab to make additional changes to the DriveRight default settings.

See also:

Calibration Settings

Unit Settings

Safety Settings

Timer Settings

Alarm Settings

Security Settings

GPS Settings

Back to Transfer to DriveRight | SmartCard Menu

Home | Getting Started | Quick Reference | Menu Commands | Troubleshooting

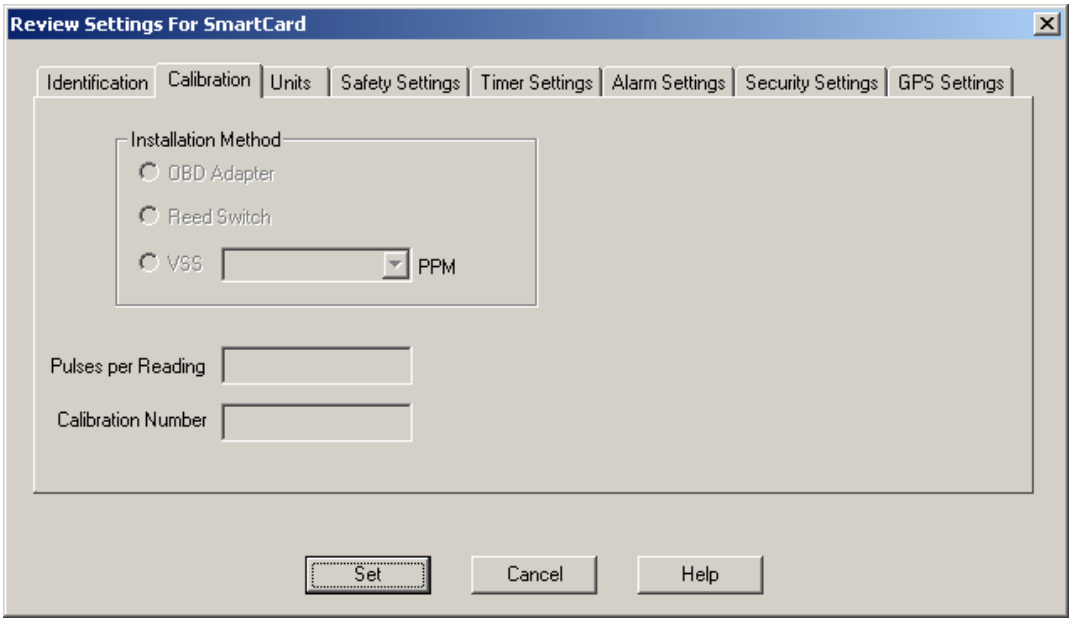
Calibration Settings - SmartCard

Use this command to modify and edit the calibration settings for a specified DriveRight device. The calibration settings control how the DriveRight device is calibrated and monitoring the selected vehicle.

To select the calibration settings:

1. Select Transfer to DriveRight from the **SmartCard** Menu.

2. Select Settings from the Transfer to DriveRight submenu. The **Review Settings for SmartCard** dialog box is displayed.
3. Select the Calibration Settings tab near the top of the dialog box. The Calibration settings options are displayed.



4. Describe the installation method or the type of connections/hookups used to connect the device to the vehicle in the Installation Method group box.
5. Click Set to save the Calibration Settings, click Cancel to exit without saving the settings, or click on another tab to make additional changes to the DriveRight default settings.

See also:

Identification Settings

Unit Settings

Safety Settings

Timer Settings

Alarm Settings

Security Settings

GPS Settings

Back to Transfer to DriveRight | SmartCard Menu

Home | Getting Started | Quick Reference | Menu Commands | Troubleshooting

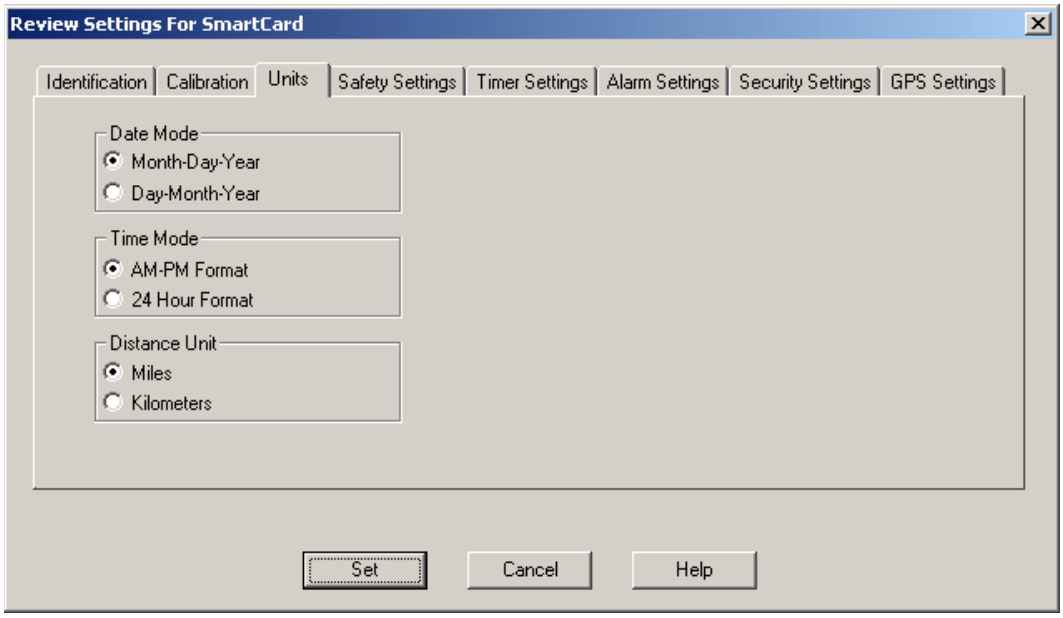
Unit Settings - SmartCard

Use this command to create default unit settings that can be used by all the vehicles in your fleet.

To set default unit settings:

1. Select Transfer to DriveRight from the **SmartCard** Menu.

2. Select Settings from the Transfer to DriveRight submenu. The **Review Settings for SmartCard** dialog box is displayed.
3. Select the Unit Settings tab near the top of the dialog box.



4. Edit the unit settings for your fleet.
    - Date Mode settings control the way month, day, and year are displayed.
    - Time Mode settings control the time of day display.
    - Distance Unit settings allows you to select miles and miles per hour or kilometers and kilometers per hour as your speed and distance units.

5. Click Set to save the settings, click Cancel to exit without saving the settings, or click on another tab to make additional changes to the DriveRight default settings.

See also:

Identification Settings

Calibration Settings

Safety Settings

Timer Settings

Alarm Settings

Security Settings

GPS Settings

Back to Transfer to DriveRight | SmartCard Menu

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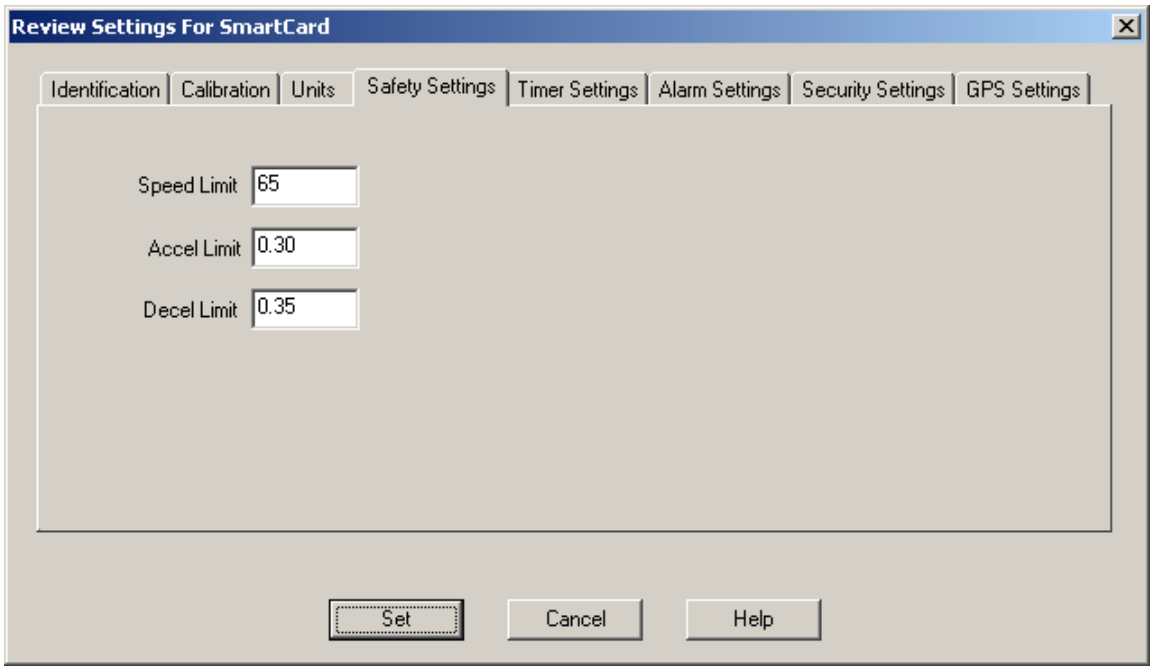
Safety Settings - SmartCard

Use this command to create safety settings for the specified DriveRight.

To set safety settings:

To select the identification settings:

1. Select Transfer to DriveRight from the **SmartCard** Menu.
2. Select Settings from the Transfer to DriveRight submenu. The **Review Settings for SmartCard** dialog box is displayed.
3. Select the Safety Tab near the top of the dialog box.



4. Set the Speed Limit, which is the maximum allowable vehicle speed.
5. Set the Accel Limit, which is the maximum allowable rate of acceleration.
6. Set the Decel Limit, which is the maximum allowable rate of deceleration.
7. Click Set to save the settings, click Cancel to exit without saving the settings, or click on another tab to make additional changes to the settings.

See Also:

Identification Settings

Calibration Settings

Unit Settings

Timer Settings

Alarm Settings

Security Settings

GPS Settings

Back to Transfer to DriveRight | SmartCard Menu

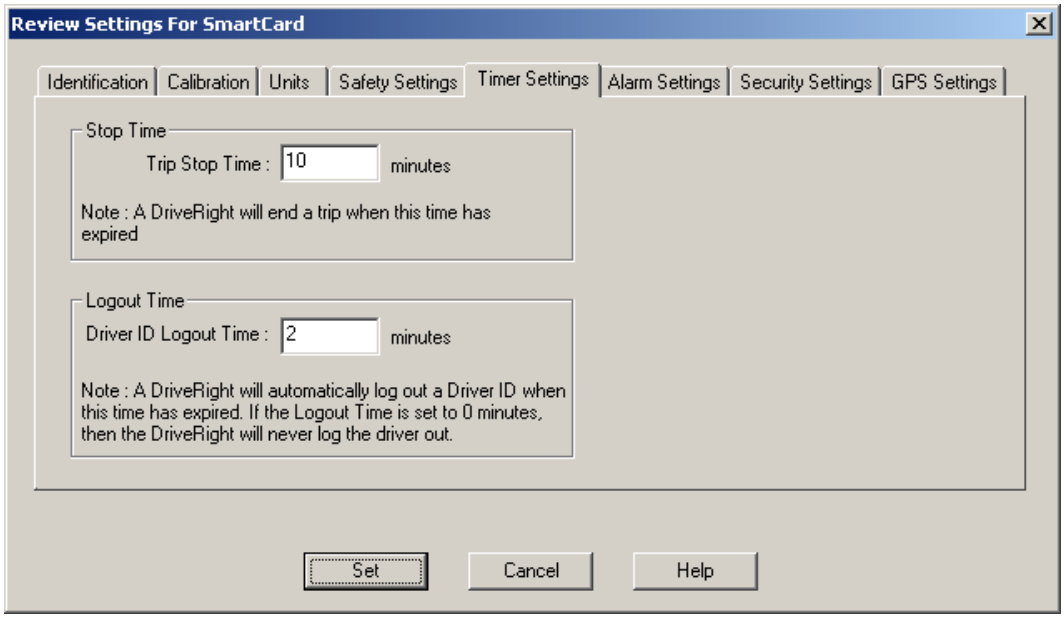
Home | Getting Started | Quick Reference | Menu Commands | Troubleshooting

Timer Settings - SmartCard

Use this command to create timer settings used by the DriveRight devices controlled by the current smart card.

To set timer settings:

1. Select Transfer to DriveRight from the **SmartCard** Menu.
2. Select Settings from the Transfer to DriveRight submenu. The **Review Settings for SmartCard** dialog box is displayed.
3. Select the Timer Settings tab near the top of the dialog box.



4. Set the trip stop time in minutes. The trip stop time is the number of minutes that elapse after a vehicle stops before the DriveRight stops recording trip data.
5. Set the Driver ID Logout Time in minutes. Use a logout time of "0" to never log out the driver. The Driver ID Logout Time is the number of minutes that elapse after a vehicle stops before the driver is logged out of the DriveRight.
6. Click Set to save the settings, click Cancel to exit without saving the settings, or click on another tab to make additional changes to the DriveRight default settings.

See Also:

Identification Settings

Calibration Settings

Unit Settings

Safety Settings

Alarm Settings

Security Settings

GPS Settings

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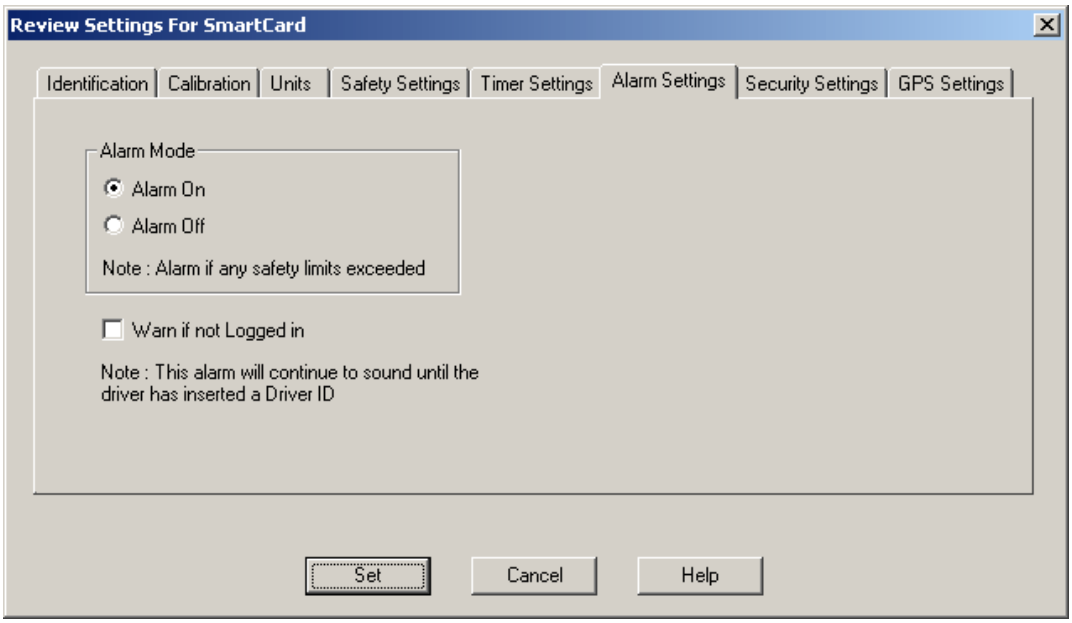
Alarm Settings - SmartCard

Use this command to create default alarm settings for a specified DriveRight device. The alarm settings control the audible alarms used to indicate when the safety settings thresholds are exceeded.

To set default alarm settings:

1. Select Transfer to DriveRight from the **SmartCard** Menu.
2. Select Settings from the Transfer to DriveRight submenu. The **Review Settings for SmartCard** dialog box is displayed.
3. Select the Alarm Settings tab near the top of the dialog box. The Alarm settings options are displayed.



4. Set the Alarm Mode to On or Off. This controls audible alarm reporting by the DriveRight device.
5. Enable "Warn if not Logged in" to have the DriveRight device give an audible alarm if the vehicle is operated without the driver first entering his or her driver code.
6. Click Set to save the Alarm Settings, click Cancel to exit without saving the settings, or click on another tab to make additional changes to the DriveRight default settings.

See also:

Identification Settings

Calibration Settings

Unit Settings

Safety Settings

Timer Settings

Security Settings

GPS Settings

Back to Transfer to DriveRight | SmartCard Menu

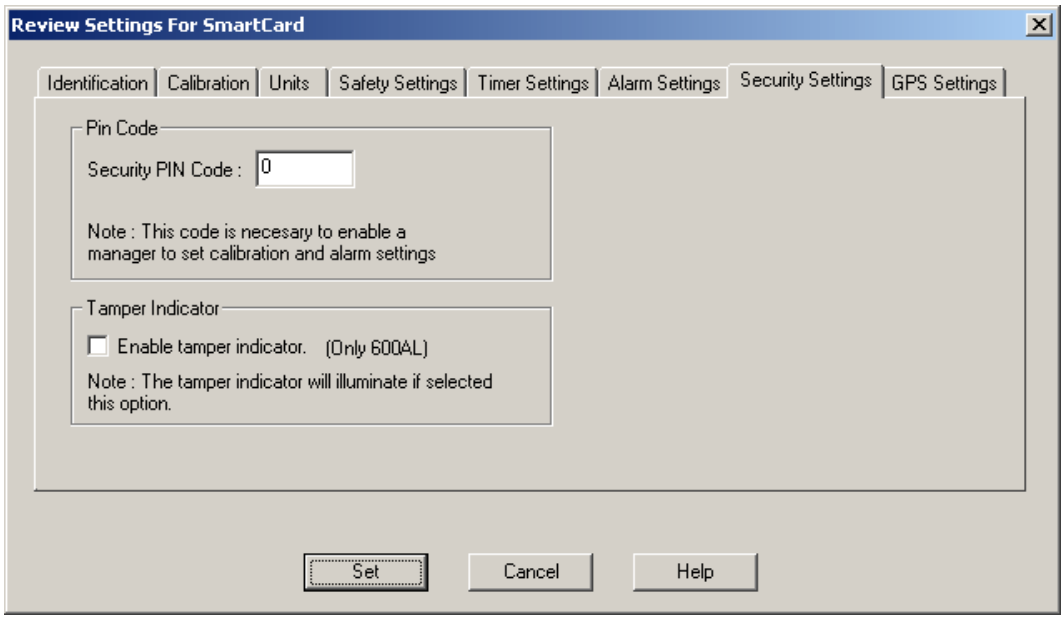
Security Settings - SmartCard

Use this command to create security settings for the specified DriveRight.

To set security settings:

To select the identification settings:

1. Select Transfer to DriveRight from the **SmartCard** Menu.
2. Select Settings from the Transfer to DriveRight submenu. The **Review Settings for SmartCard** dialog box is displayed.
3. Select the Security Settings Tab near the top of the dialog box.



4. Set the Pin Code, which is required to set the calibration and alarm settings on the DriveRight device.
5. If desired, you can enable the tamper indicator. If enabled, the tamper indicator on the DriveRight LCD screen will be displayed when a tamper event has been detected.
6. Click Set to save the settings, click Cancel to exit without saving the settings, or click on another tab to make additional changes to the DriveRight settings.

See Also:

Identification Settings

Calibration Settings

Unit Settings

Safety Settings

Timer Settings

Alarm Settings

GPS Settings

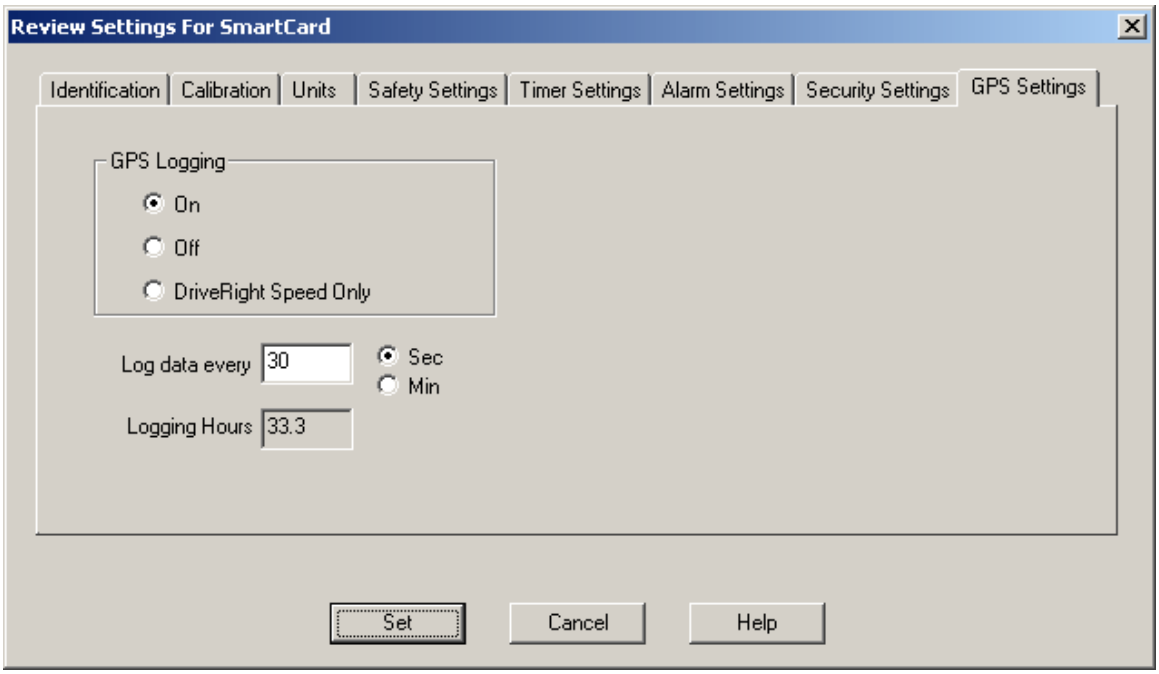
GPS Settings - SmartCard

Use this command to view and edit the GPS settings that can be used by the specified vehicle.

Note: Even if this feature is toggled on an off, it will only work with corresponding DriveRight 600 units with GPS modules.

To set GPS logging settings:

1. Select Transfer to DriveRight from the **SmartCard** Menu.
2. Select Settings from the Transfer to DriveRight submenu. The **Review Settings for SmartCard** dialog box is displayed.
3. Select the GPS Settings tab near the top of the dialog box. The GPS settings options are displayed.



4. Select On to turn the GPS logging feature on for all the units with a GPS module. Select Off to turn off the GPS feature for all DriveRight Devices. Select DriveRight Speed Only to log and track only the DriveRight Speed. This feature logs and tracks only the DriveRight speed for DriveRight 600 devices that are not assembled with a GPS module.
5. If On or the DriveRight Speed only button has been selected, select the Logging interval time and corresponding time unit in the Log Data Every text field. The amount of logging hours this used for this feature are displayed in Logging Hours.
6. Click Set to save the settings, click Cancel to exit without saving the settings, or click on another tab to make additional changes to the DriveRight default settings.

See also:

Identification Settings

Calibration Settings

Unit Settings

Safety Settings

Timer Settings

Alarm Settings

Security Settings

Back to Transfer to DriveRight | SmartCard Menu

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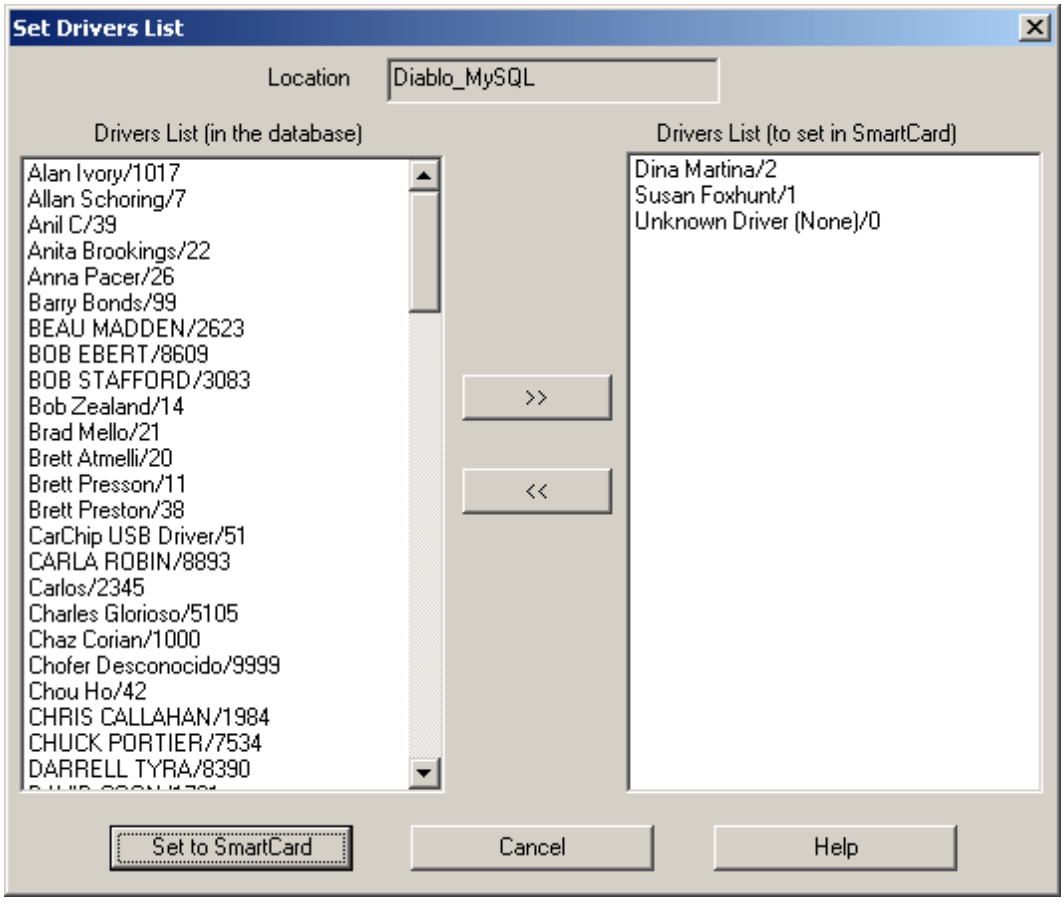
Drivers List

The Drivers List dialog box allows you to set the user identifications assigned to the SmartCard currently inserted on the desktop reader.

Note: The Drivers List dialog box should not be used in conjunction with DriveRight 500 devices. This feature is compatible with DriveRight 600 devices and allows you to select up to 100 drivers per device.

To access the Drivers List:

1. Select Transfer to DriveRight from the **SmartCard** Menu.
2. Select Drivers List from the Transfer to DriveRight submenu. The **Set Drivers List** dialog box is displayed.



3. Select the driver name/identification number the card is assigned to, and/or select Unknown Driver (none) if all drivers in your fleet have privileges to the same card, and click the >> button. The selected drivers display in the Drivers List (to set in SmartCard) combo box. If you wish to take off a driver from this list, select the driver name and click the << button.
4. Click Set to SmartCard to program the new SmartCard with this information or click cancel to exit without saving the new information to the SmartCard.

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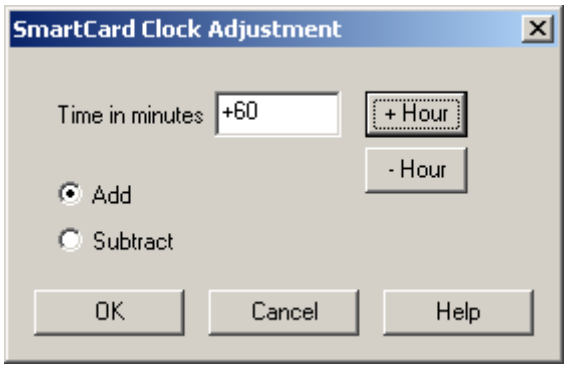
Clock Adjustment

The Clock Adjustment dialog box allows you to set control clock changes to the DriveRight using the SmartCard..

To adjust the DriveRight clock:

1. Select Transfer to DriveRight from the **SmartCard** Menu.
2. Select Clock Adjustment from the Transfer to DriveRight submenu. The **Clock Adjustment** dialog box is displayed.



3. Click the + Hour button set the DriveRight clock1 hour ahead, the - Hour set the clock back an hour. Use the Add and Subtract buttons to add or subtract a specified number of minutes from the DriveRight clock time.
4. Click OK to save the new clock settings, or Cancel to exit the Clock Adjustment dialog box without saving.

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Database Menu

Database Menu

Use the Database Menu options to open individual database tables. In the database table you can view and print records. You can also add, edit or delete records.

Caution: Take extra care before deleting Company Location, DriveRight, CarChip, Driver or Vehicle records.

The following Database Menu options are available:

Company Locations
DriveRights
CarChips
Driver Groups
Drivers
Fleets
Vehicles
Trips
Accident Logs
Tamper Logs
Trip Addresses
Days
Download Dates
GPS
Odometer Logs
Safety Score
Trouble Codes
Readiness Codes

Maintenance

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Company Locations

Use this command to view and edit data for company locations.

Caution: We strongly advise against changing a location name if you use FTP Export/FTP Import, since location name plays a very important role in these operations. If you do any kind of centralized data collection do not alter location name.

To view or edit data for company locations:

1. Select Company Locations from the **Database** menu. The Company Locations database table is displayed.
2. Click the Add New button to add a new company location.
3. Highlight a record in the database table and click Edit, or double-click a record to update the company location information.
4. Highlight a record in the database table and click **Delete** to delete that record.
5. Click **Close** to exit the database table.
6. Click **Print** to print the database table.

See also:

Add Company Location

Update Company Location

Back to Database Menu

Home | Getting Started | Quick Reference | Menu Commands | Troubleshooting

DriveRights

Use DriveRights to view or edit data for installed DriveRight devices.

Note: You can only change the assigned vehicle when editing a DriveRight record.

To view or edit DriveRight data:

1. Select DriveRights in the **Database** menu. The DriveRights database table is displayed.
2. Click the Add New button to add a new DriveRight to the database. This button starts the Add New DriveRight Wizard.
3. Highlight a record in the database table and click Edit, or double-click a record to edit the information for a specific DriveRight device.
4. Highlight a record in the database table and click **Delete** to delete that record.
5. Click **Close** to exit the database table.
6. Click Print to print the database table.

See also:

Edit DriveRight Setup

Print DriveRights

Add New DriveRight Wizard

Back to Database Menu

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CarChips

Use **CarChips** to view or edit data for installed CarChip devices.

Note: You can only change the assigned vehicle or the assigned driver when editing a CarChip record in the database table.

To view or edit CarChip data:

1. Select CarChip from the **Database** menu. The CarChip database table is displayed.
2. Click Add New to add a new CarChip to the database. This button starts the Add New CarChip Wizard.
3. Highlight a record in the database table and click Edit, or double-click a record to edit the information for a specific CarChip device.

4. Highlight a record in the database table and click **Delete** to delete that record.
5. Click **Close** to exit the database table.
6. Click Print to print the database table.

See also:

Edit CarChip Setup

Add New CarChip

Back to Database Menu

Home | Getting Started | Quick Reference | Menu Commands | Troubleshooting

Driver Groups

Use Driver Groups in the **Database** menu to view or edit driver group data.

To view or edit driver group data:

1. Select Driver Groups in the **Database** menu. The Driver Groups database table is displayed.
2. Click Add New to add a new driver group to the database.
3. Highlight a record in the database table and click Edit, or double-click a record to edit the record.
4. Highlight a record in the database table and click Delete to delete that record.
5. Click Close to exit the database table.
6. Click Print to print the database table.

See also:

Add Drivers Group

Edit Drivers Group

Back to Database Menu

Home | Getting Started | Quick Reference | Menu Commands | Troubleshooting

Drivers

Use Drivers in the **Database** menu to view or edit driver data.

To view or edit driver data:

1. Select Drivers in the **Database** menu. The Drivers database table is displayed.
2. Click the Add New button to add a new driver to the database.

3. Highlight a record in the database table and click Edit, or double-click a record to edit the record.
4. Highlight a record in the database table and click Delete to delete that record.
5. Click Close to exit the database table.
6. Click Print to print the database table.

See also:

Add Driver

Edit Driver

Print Drivers

Back to Database Menu

Home | Getting Started | Quick Reference | Menu Commands | Troubleshooting

Fleets

Use **Fleets** from the Database menu to view or edit fleet data.

To view or edit fleet data:

1. Select **Fleets** from the **Database** menu. The Fleets database table is displayed.
2. Click the Add New button to add a new fleet to the database.
3. Highlight a record in the database table and click Edit, or double-click a record to edit the record.
4. Highlight a record in the database table and click **Delete** to delete that record.
5. Click **Close** to exit the database table.
6. Click **Print** to print the database table.

See also:

Add Fleets

Edit Fleets

Back to Database Menu

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Vehicles

Use **Vehicles** from the **Database** menu to view or edit vehicle data.

To view or edit vehicle data:

1. Select **Vehicles** from the **Database** menu. The Vehicles database table is displayed.
2. Click the Add New button to add a new vehicle to the database.
3. Highlight a record in the database table and click Edit, or double-click a record to edit the record.

4. Highlight a record in the database table and click **Delete** to delete that record.
5. Click **Close** to exit the database table.
6. Click Print to print the database table.

See also:

Add Vehicle

Edit Vehicle

Print Vehicles

Back to Database Menu

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Trips

Use **Trips** from the **Database** menu to view, edit, or map trip data.

To view or edit trip data:

1. Select **Trips** from the **Database** menu. The Filter For Trips dialog box is displayed.
2. Select your desired filter options.
3. Click **OK** to show the Trips database table or click **Cancel** to exit the dialog box without opening the database table.
4. Click Add New to create a new record.
5. Click Set Filter to change the filter for the displayed records.
6. Highlight a trip record and click Edit to view or edit that record in the Update window.
7. Highlight a trip record and click **Delete** to delete the record.
8. Click **Close** to exit the database table.
9. Click Print to print the database table.
10. Highlight a trip record then click Export GPS to export GPS data from that trip, or, press Control-D to export GPS data for the entire day of the currently selected record.
11. Highlight a trip record then click Map to generate a Trip Mapping Report for that trip, or, press Control-D to generate a Day Mapping Report showing all trips taken the same day as the selected trip.

See also:

Filter for Trips

Add Trip

Edit Trip

Print Trips

Export: GPS to Mapping Software

Trip Mapping Report

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Accident Logs

Use the Accident Logs command in the Database menu to open the Accident Logs database table.

To open the Accident Logs database table:

1. Select the Accident Logs command in the Database menu. The Filter For Accident Logs dialog box is displayed.
2. Select your desired filter options.
3. Click OK to show the Accident Log database table or click Cancel to exit the dialog box without opening the database table.
4. Click Set Filter to change the filter for the displayed accident logs.
5. Highlight a specific accident record and click Edit to view that record in the Update Accident Log window.
6. Highlight a specific accident record and click Delete to delete a specific accident log record.
7. Click Close to exit the database table.
8. Click Print to print the database table.

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Tamper Logs

Use **Tamper Logs** from the **Database** menu to view tamper log data.

To view the Tamper Log data:

1. Select **Tamper Logs** from the **Database** menu. The Filter For Tamper Logs dialog box is displayed.
2. Select your desired filter options.
3. Click **OK** to show the Tamper Logs database table or click **Cancel** to exit the dialog box without opening the database table.
4. Click Set Filter to change the filter for the displayed records.
5. Highlight a specific record and click Edit to view that record in the Update window.

   Note: You cannot edit tamper log data.

6. Highlight a specific record and click **Delete** to delete that record.
7. Click **Close** to exit the database table.
8. Click **Print** to print the database table.

See also:

Filter for Tamper Logs

Edit Tamper Log

Back to Database Menu

Trip Addresses

Use **Trip Addresses** from the **Database** menu to view or edit trip address data.

To view or edit trip address data:

1. Select **Trip Addresses** from the **Database** menu. The Trip Addresses database table is displayed.
2. Click the Add New button to add a new trip address to the database.
3. Highlight a record in the database table and click Edit, or double-click a record to edit the record.
4. Highlight a record in the database table and click **Delete** to delete that record.
5. Click **Close** to exit the database table.
6. Click **Print** to print the database table.

See also:

Add Trip Address

Edit Trip Address

Back to Database Menu

Days

Use **Days** in the **Database** menu to view or edit day data. Day data summarizes vehicle information by day. As the day data is composed from the trip database in the case of Trip Computer, Trip 500AL or DriveRight 600, you cannot add any data in this dialog box. While downloading data from a DriveRight, the day data will be processed and placed into the database.

To view or edit the day data:

1. Select **Days** in the **Database** menu. The Filter For Days dialog box is displayed.
2. Select your desired filter options.
3. Click **OK** to show the Days database table or click **Cancel** to exit the dialog box without opening the database table.
4. Click Set Filter to change the filter for the displayed records.
5. Highlight a specific record and click Edit to view that record in the Update window.
6. Highlight a specific record and click **Delete** to delete that record.
7. Click **Close** to exit the database table.
8. Click Print to print the database table.
9. Highlight a trip record then click Export GPS to export GPS data for trips taken on that day.

10. Highlight a trip record then click **Map** to create a Day Map for trips taken on that day.

See also:
Filter for Days
Edit Days
Print Days
Export: GPS to Mapping Software
Creating a Day Map

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Download Dates

Use Download Dates in the **Database** menu to view or edit the download dates data.

To view or edit the download dates data:

1. Select Download Dates from the **Database** menu. The Filter For Download Dates dialog box is displayed.
2. Select your desired filter options.
3. Click **OK** to show the Download Dates browse window or click **Cancel** to exit the dialog box without opening the browse window.
4. Click Add New to create a new record.
5. Click Set Filter to change the filter for the displayed records.
6. Highlight a specific record and click Edit to view that record in the Update window.
7. Highlight a specific record and click **Delete** to delete that record.
8. Click **Close** to exit the database table.
9. Click **Print** to print the database table.

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GPS

Use **GPS** from the **Database** menu to view or edit GPS data.

To view or edit GPS data:

1. Select **GPS** from the **Database** menu. The Filter For GPS dialog box is displayed.
2. Select your desired filter options.
3. Click **OK** to show the GPS database table or click **Cancel** to exit the dialog box.

4. Click Set Filter to change the filter for the displayed records.
5. Highlight a specific record and click Edit to view the selected record.
6. Highlight a specific record and click **Delete** to delete that record.
7. Click **Close** to exit the database table.
8. Click Print to print the database table.

See also:

Filter for GPS

Edit GPS

Print GPS

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Odometer Logs

Use the Odometer Logs command in the Database menu to view or edit odometer log data.

To view or edit odometer log data:

1. Select **Odometer Logs** from the **Database** menu. The Filter For Odometer Logs dialog box is displayed.
2. Select your desired filter options.
3. Click **OK** to show the **Odometer Logs** database table or click **Cancel** to exit the dialog box without opening the database table.
4. Click Set Filter to change the filter for the displayed records.
5. Highlight a specific record and click Edit to edit the selected record.
6. Highlight a specific record and click **Delete** to delete that record.
7. Click **Close** to exit the database table.
8. Click **Print** to print the database table.

See also:

Filter for Odometer Logs

Edit Odometer Log

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Safety Score

Use **Safety Score** from the **Database** menu to view Safety Score data or to edit a driver's exempt status for a given month.

To display the Safety Score database table:

1. Select Safety Score in the **Database** menu. The Filter For Safety Score dialog box is displayed.
2. Select your desired filter options.
3. Click **OK** to show the Safety Score database table or click **Cancel** to exit the dialog box without opening the database table.
4. Click Set Filter to change the filter for the displayed records.
5. Highlight a specific record and click Edit to edit the selected record.
6. Highlight a specific record and click **Delete** to delete that record.
7. Click **Close** to exit the database table.
8. Click **Print** to print the database table.

See also:

Filter For Safety Score

Edit Safety Score

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Maintenance

Use **Maintenance** sub-menu under the **Database** menu to perform data maintenance procedures, such as deleting records or batch editing records in the database.

Select Delete Data from the **Maintenance** sub-menu to delete selected records for record types displayed in the drop down list. The record types for deletion are:

- Trips
- Accident Logs
- Tamper Logs
- Days
- Download Dates
- GPS
- Odometer Logs

Select Batch Editing from the **Maintenance** sub-menu to reassign certain database records to another driver or to re-calibrate speed readings for certain vehicles or drivers.

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Reports Menu

Reports Menu

DriveRight can produce a number of useful reports. The reports can be displayed on the screen or printed.

The following reports are available:

Accident Log Report
Driver Safety Score
Driver Safety Score Summary
Exception Reports
Database Reports
Usage Report
Trip Summary Report
Tamper Logs Report
Odometer Report
Relationship Report
Days Since Last Download

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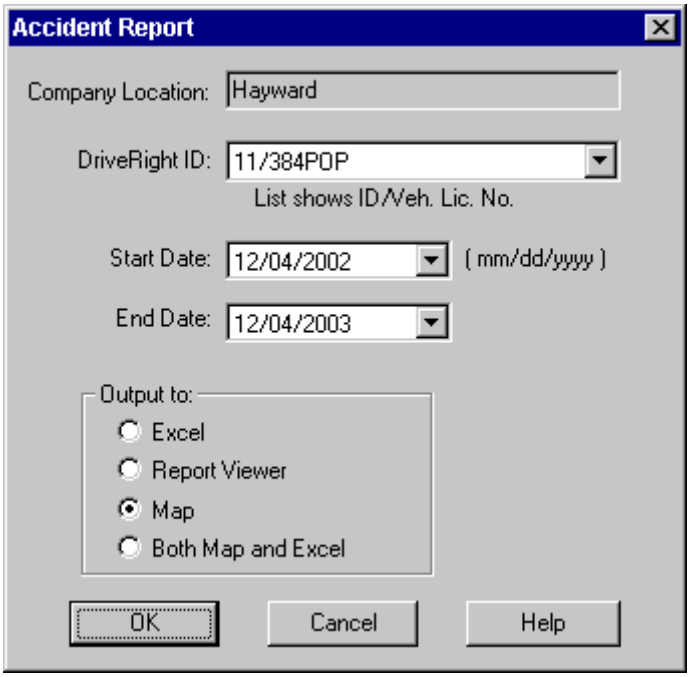
Accident Log Report

The Accident Log report allows you to view, print, export or map the contents of the Accident Log.

To create an Accident Log Report:

1. Select Accident Log Report from the Reports Menu. The Accident Report dialog box is displayed.



2. Verify the Company Location. Use the Current Location command in the Setup Menu to change the location if necessary.
3. Select the DriveRight ID to be used in the report.
4. Select the Start Date and the End Date for the accident logs to be listed in the report.
5. Select the type of output for the report: Excel, Report Viewer, Map, or both Map and Excel.
6. Click OK to create the report or click Cancel to exit the dialog box.

See also:

Mapping Quick Reference Menu

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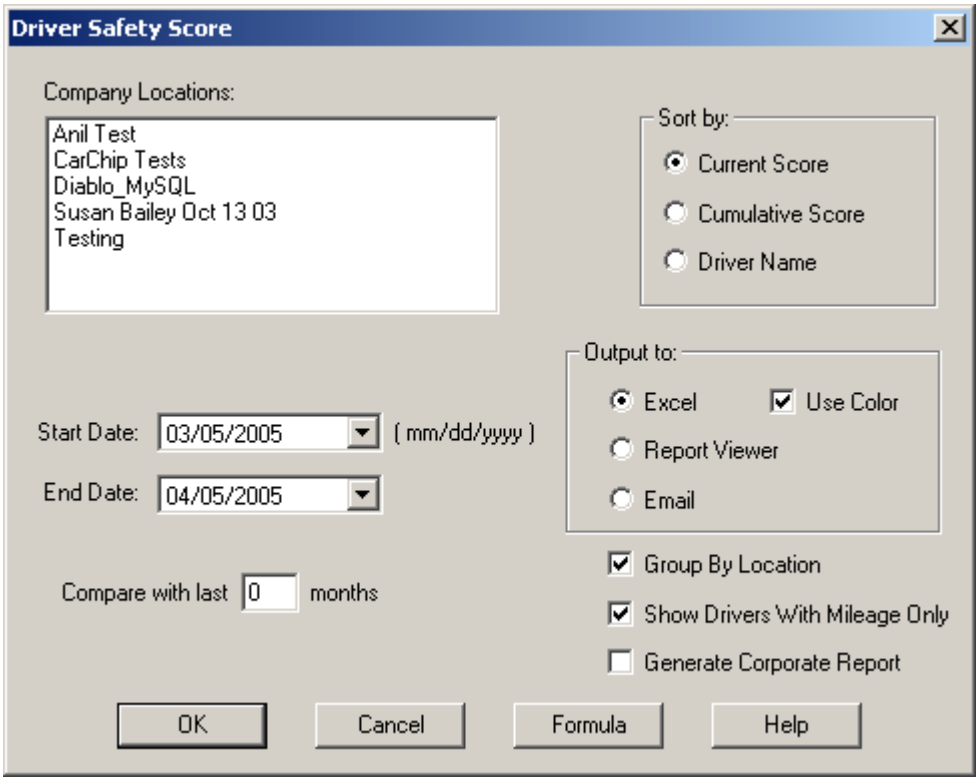
Driver Safety Score Report

The Driver Safety Score report allows you to customize, view, print, email, or export the Driver Safety Score.

To create the Driver Safety Score Report:

1. Select Driver Safety Score Report from the Reports Menu. The Driver Safety Score dialog box is displayed.



2. Click on the company locations to be used in the report. The selected locations are highlighted.

3. Select the Start Date and the End Date for the driver safety data to be included in the report.

4. Use the "Compare with last ___ months" text box to enter the number of months back from the start date that you want to include in the calculation of the "cumulative" score. The cumulative score will be calculated from the start date minus X months up to and including the end date.

5. Use the Sort by options to sort the output by current score, cumulative score, or the driver's name. If you sort by current score and choose "Use Color", the coloring is done based on the current score. If you sort by cumulative score, the coloring is done based on cumulative score. If you sort by driver's name, coloring is done based on the current score.

6. Select the type of output for the report: Excel, Report Viewer, or Email. Click Use Color to enable color printing.

7. Check Group By Location to group together the scores for each location. Check Drivers With Mileage Only to display only drivers with trips/mileage listed to their identification. Check Corporate Report to generate the Driver Safety Score Report based on the corporate hierarchy structure created in the Corporate Structure dialog box.

8. Click on the Formula button to view or change the Driver Safety Score parameters.

9. Click OK to create the report or click Cancel to exit the dialog box.

See also:

Driver Safety Score Formula

Output to Excel

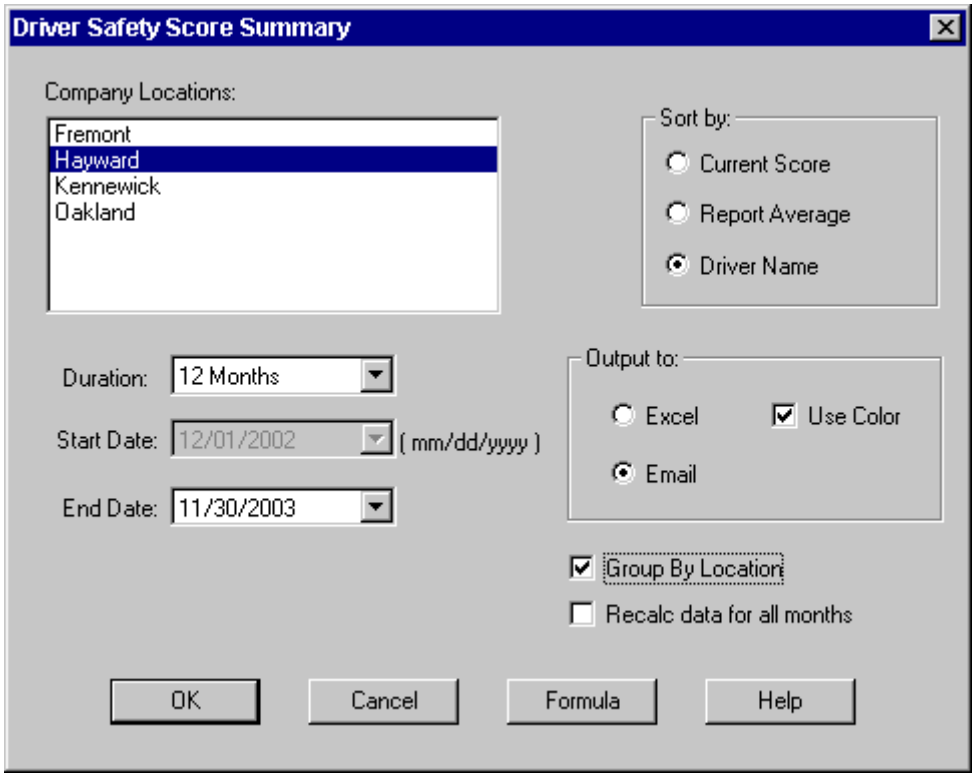
Output to Email

Driver Safety Score Summary Report

The Driver Safety Score Summary command creates a Driver Safety Score Summary Report based on the Safety Score Reports stored in the Safety Score Table.

To create the Driver Safety Score Summary Report:

1. Select Driver Safety Score Summary Report from the Reports Menu. The Driver Safety Score Summary dialog box is displayed.



2. Click on the company locations to be used in the report. The selected locations are highlighted.
3. Select the Duration of the report. This is the number of months to be included in the report.
4. Select the End Date for the report. FMS will calculate the Start Date based on the Duration and End Date.
5. Use the Sort by options to sort the output by current score, report average, or the driver's name. If you sort by current score and choose "Use Color", the coloring is done based on the current score. If you sort by report average, the coloring is done based on report average score. If you sort by driver's name, coloring is done based on the current score.
6. Select the type of output for the report: Excel, Report Viewer, or Email. Click Use Color to enable color printing.
7. Check "Group By Location" to group together the scores for each location.

8. Check "Recalc data for all months" to have the monthly scores recalculated for this report.
9. Click on the Formula button to view or change the Driver Safety Score parameters.
10. Click OK to create the report or click Cancel to exit the dialog box.

See also:

Driver Safety Score Formula

Output to Excel

Output to Email

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Exception Reports

Exception Reports

Exception Reports can be printed for Vehicles, Drivers, and Trip Addresses.

Excessive Speed Report

Night Driving Report

Hard Braking Report

Time Over Speed

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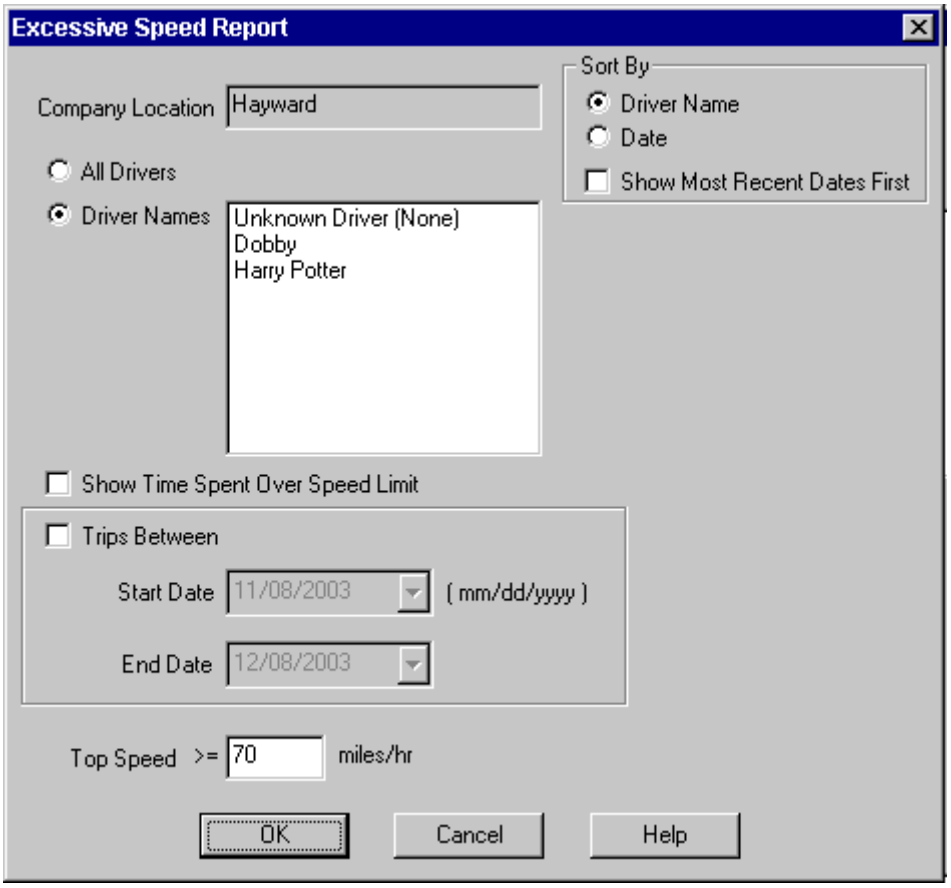
Excessive Speed Report

Use the Excessive Speed Report to identify drivers that exceed a set speed.

To create an Excessive Speed Report:

1. Select Excessive Speed Report from the Exception Reports command in the Reports Menu. The Excessive Speed Report dialog box is displayed.



2. Verify the Company Location. Use the Current Location command in the Setup Menu to change the location if necessary.

3. Select the Sort By criteria by clicking next to either Driver Name or Date.

4. Select All Drivers to print the report for all drivers, or select Driver Names to create the report for specific drivers.

5. If you are creating the report for specific drivers, select the driver's name in the list.
   - Click once to select the name and click a second time to clear the name.
   - Multiple drivers can be selected for the report.

6. Check "Show Most Recent Dates First" to list trips from the most recent trip to the oldest. If this box isn't checked the trips will be listed from the oldest trip to the most recent.

7. Select Trips Between to create a report that only lists trips taken between specific dates. If you select Trips Between, then indicate the Start Date and End Date for the reported trips.

8. Enter the Top Speed in the edit box. Trips with speeds in excess of the top speed will be listed in the report.

9. Click OK to create the report or click Cancel to exit the dialog box.

10. You can clear the report using the Clear Screen command in the File Menu or by clicking on the Clear Screen icon: .

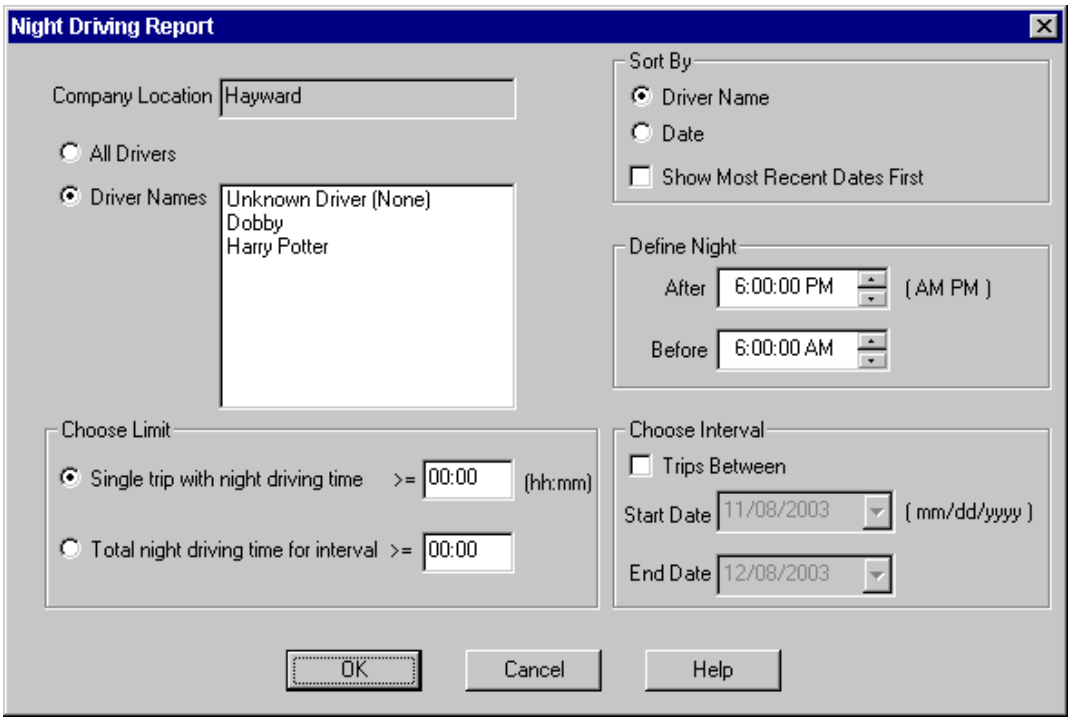
Back to Reports Menu | Exception Reports

Night Driving Report

Use the Night Driving Report to list trips that occur during user-defined nighttime hours. Use this report to track unauthorized night driving.

To create a Night Driving Report:

1. Select Night Driving from the Exception Reports command in the Reports Menu. The Night Driving Report dialog box is displayed.



2. Verify the Company Location. Use the Current Location command in the Setup Menu to change the location if necessary.
3. Select the Sorting criteria by clicking next to either Driver Name or Date.
4. Check "Show Most Recent Dates First" to list trips from the most recent trip to the oldest. If this box isn't checked the trips will be listed from the oldest trip to the most recent.
5. Select All Drivers to print the report for all drivers, or select Driver Names to create the report for specific drivers.
6. If you are creating the report for specific drivers, click on the drivers name in the list.
    - Click once to select the name and click a second time to clear the name.
    - Multiple drivers can be selected for the report.

6. In the Define Night box enter the night times for the report. Night will begin at the After time. Night will end at the Before time.
7. In the Choose Limit box you can configure the report to list trips with at least the minimum amount of night driving time that you specify for a single trip, or you can choose to list trips for drivers with at least the minimum amount of total night driving time during the chosen date interval.

8. In the Choose Interval box you can set start and end dates for the trips to be included in the report.
9. Click OK to create the report or click Cancel to exit the dialog box.
10. You can clear the report using the Clear Screen command in the File Menu or by clicking on the Clear Screen icon: .

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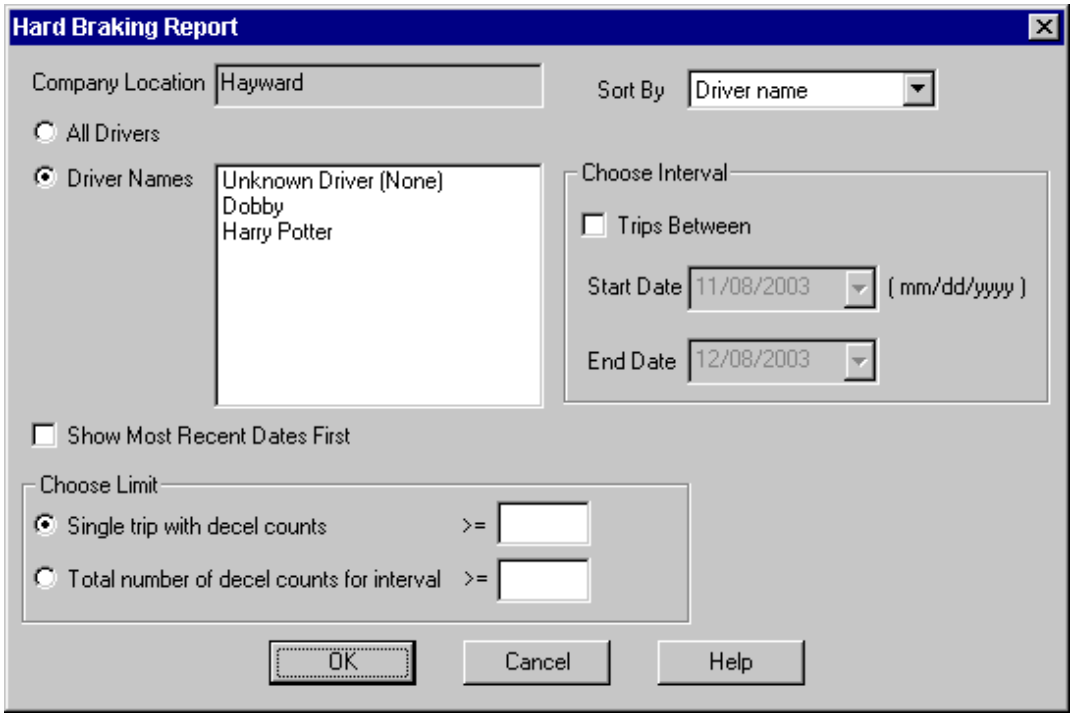
Hard Braking Report

Use the Hard Braking Report to identify drivers that use the brakes excessively.

To create a Hard Braking Report:

1. Select Hard Braking from the Exception Reports command in the Reports Menu. The Hard Braking Report dialog box is displayed.



2. Verify the Company Location. Use the Current Location command in the Setup Menu to change the location if necessary.
3. Select the Sort By criteria from the drop-down list: Driver name, Date, Decel count and Decel count rate.
4. Select All Drivers to print the report for all drivers, or select Driver Names to create the report for specific drivers.
5. If you selected Driver Names, click on the names of drivers to be included in the report.

- Click once to select the name. You can click a second time to clear the name.
- Multiple drivers can be selected for the report.

6. Check "Show Most Recent Dates First" to list trips from the most recent trip to the oldest. If this box isn't checked the trips will be listed from the oldest trip to the most recent.
7. In the Choose Limit box you can configure the report to include all trips with at least the indicated number of deceleration counts or you can include the trips for all drivers that exceed the minimum number of deceleration counts during the chosen date interval.
8. In the Choose Interval box you can set start and end dates for the trips to be included in the report.
9. Click OK to create the report or click Cancel to exit the dialog box.
10. You can clear the report using the Clear Screen command in the File Menu or by clicking on the Clear Screen icon: .

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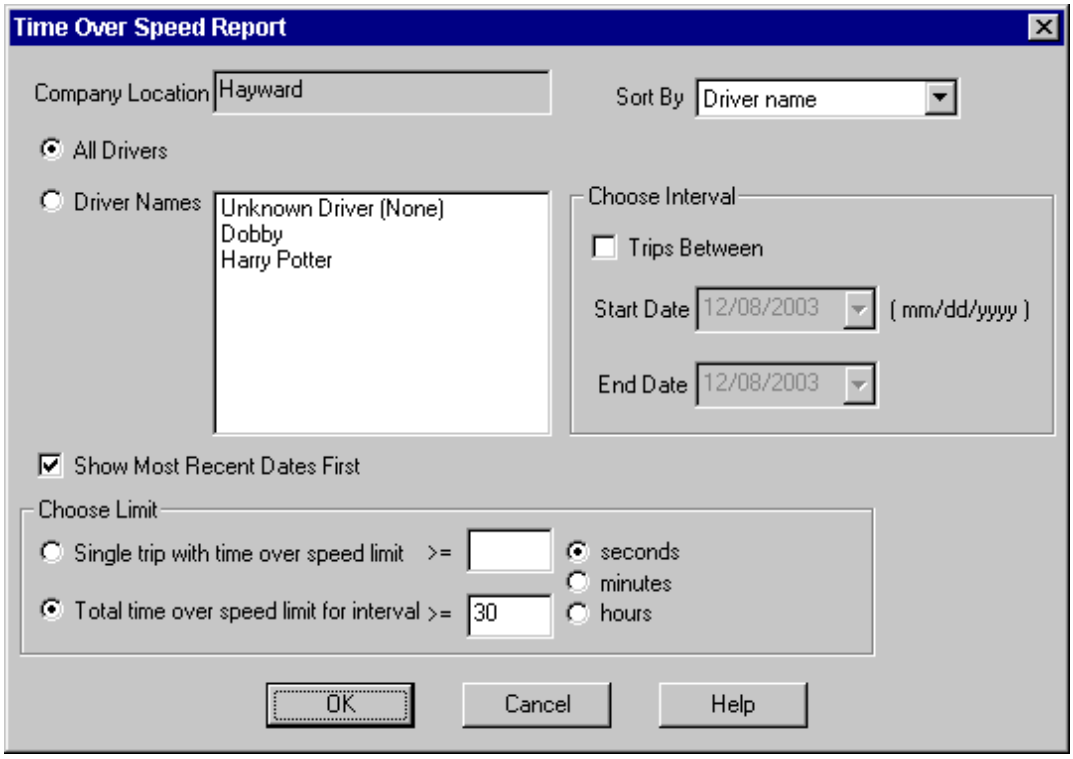
Time Over Speed

Use the Time Over Speed Report to identify drivers that speed excessively.

To create a Time Over Speed Report:

1. Select Time Over Speed from the Exception Reports command in the Reports Menu. The Time Over Speed Report dialog box is displayed.



2. Verify the Company Location. Use the Current Location command in the Setup Menu to change the location if necessary.

3. Select the Sort By criteria from the drop-down list: Driver name, Date, Time over speed and % of time over speed..

4. Select All Drivers to print the report for all drivers, or select Driver Names to create the report for specific drivers.

5. If you selected Driver Names, click on the names of drivers to be included in the report.
   - Click once to select the name. You can click a second time to clear the name.
   - Multiple drivers can be selected for the report.

6. In the Choose Interval box you can set start and end dates for the trips to be included in the report.

7. Check "Show Most Recent Dates First" to list trips from the most recent trip to the oldest. If this box isn't checked the trips will be listed from the oldest trip to the most recent.

8. In the Choose Limit box you can configure the report to include all single trips with at least the amount of time over the speed limit or you can configure the report to show total time over the speed limit..

9. Click OK to create the report or click Cancel to exit the dialog box.

10. You can clear the report using the Clear Screen command in the File Menu or by clicking on the Clear Screen icon: .

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Database Reports

Database Reports

Database Reports can be printed for Vehicles, Drivers, and Trip Addresses.

Vehicles Report

Trip Addresses Report

Drivers Report

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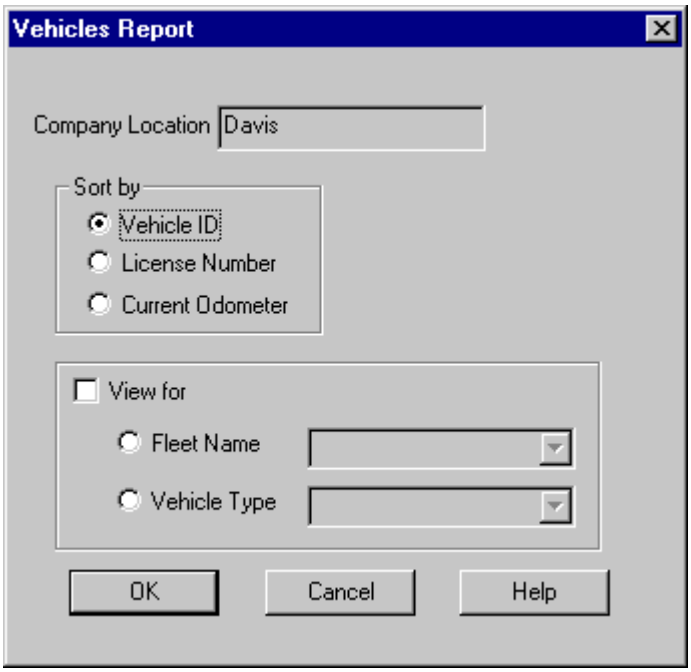
Vehicles Report

To print a Vehicles Report:

1. Select Vehicles Report from the Database command in the Reports Menu. The Vehicles Report dialog box is displayed.



2. Verify the Company Location. Use the Current Location command in the Setup Menu to change the location if necessary.
3. Select the Sorting criteria by clicking next to the desired parameter.
4. Select View for to display vehicles from a specific fleet or of a specific type.
5. Click OK to create the report or click Cancel to exit the dialog box.

6. You can clear the report using the Clear Screen command in the File Menu or by clicking on the Clear Screen icon: .

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Trip Addresses Report

The Trip Addressees Report displays a list of the trip addresses in your database.

To view the Trip Addresses Report:

1. Select Trip Addresses Report from the Database command in the Reports Menu. The Trip Addresses Report is displayed.
2. You can clear the report using the Clear Screen command in the File Menu or by clicking on the Clear Screen icon: .

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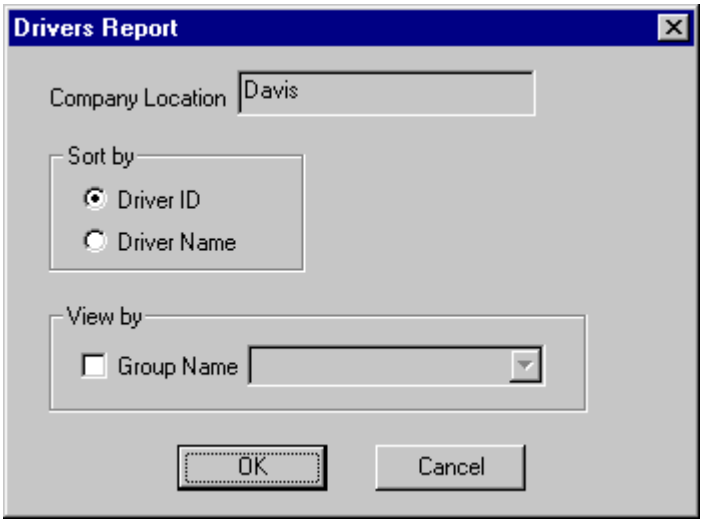
Drivers Report

To print a Drivers Report:

1. Select Drivers Report from the Database command in the Reports Menu. The Drivers Report dialog box is displayed.



2. Verify the Company Location. Use the Current Location command in the Setup Menu to change the location if necessary.

3. Select the Sorting criteria by clicking next to the desired parameter.
4. Select View by to display drivers from a specific group.
5. Click OK to create the report or click Cancel to exit the dialog box.
8. You can clear the report using the Clear Screen command in the File Menu or by clicking on the Clear Screen icon: .

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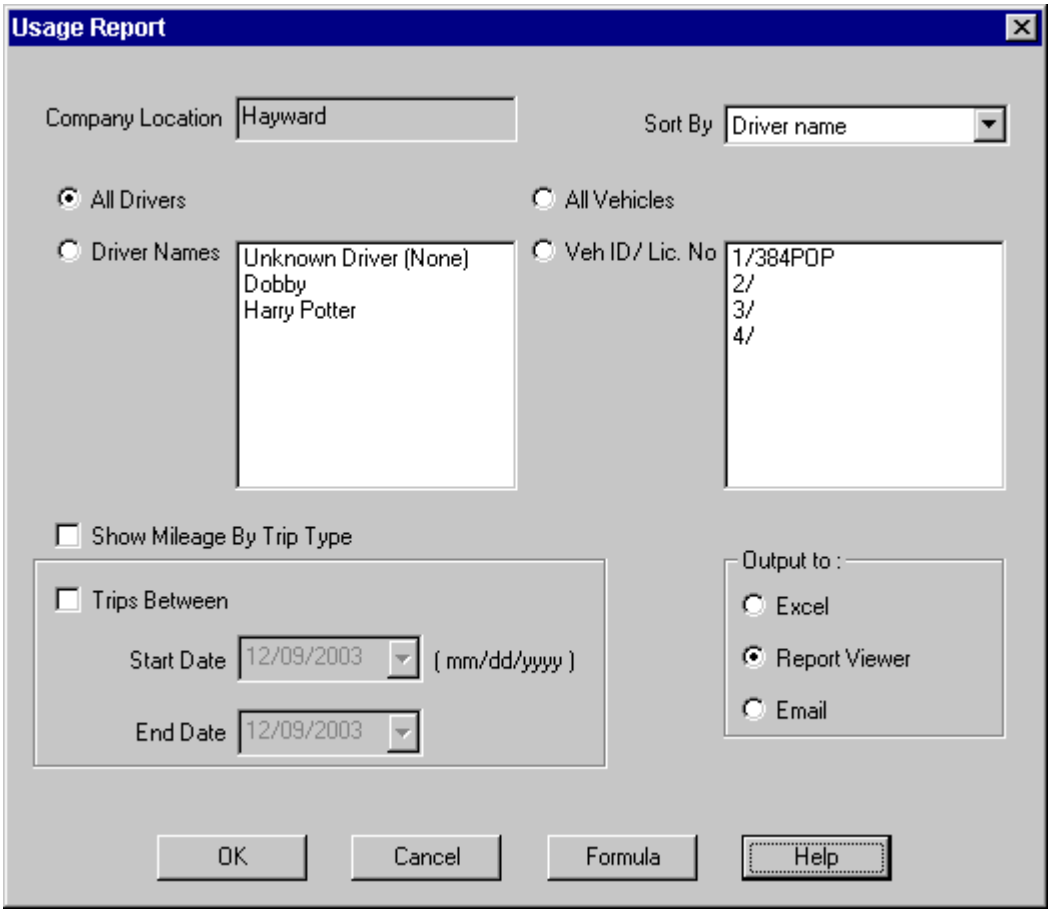
Usage Report

The Usage Report provides a quick and easy-to-read summary of driver or vehicle mileage.

To create a Usage Report:

1. Select Usage Report from the Reports Menu. The Usage Report dialog box is displayed.



2. Verify the Company Location. Use the Current Location command in the Setup Menu to change the location if necessary.
3. Select the Sorting criteria from the drop-down list.

4. Select All Drivers to print the report for all drivers, or select Driver Names to create the report for specific drivers.
5. If you are creating a report for specific drivers, click on the drivers name in the list.
    - Click once to select the driver and click a second time to de-select the driver.
    - Multiple drivers can be selected for the report.
6. Select All Vehicles to print the report for all vehicles, or select Veh ID/ Lic. No to create the report for specific vehicles.
7. If you are creating a report for specific vehicles, click on the vehicles ID in the list.
    - Click once to select the vehicle and click a second time to de-select the vehicle.
    - Multiple vehicles can be selected for the report.
9. Check "Show Mileage By Trip Type" to include a breakdown of the trip mileage by type of trip. DriveRight supports the following trip types: business, personal, commute and other.
10. To specify a start date and end date for the report, check Trips Between and then enter the starting and ending dates.
11. Select the type of output for the report: Excel, Report Viewer, or Email.
12. Click on the Formula button to set or change the time definitions for night and weekend driving.
13. Click OK to create the report or click Cancel to exit the dialog box.

See also:

Usage Report Formula

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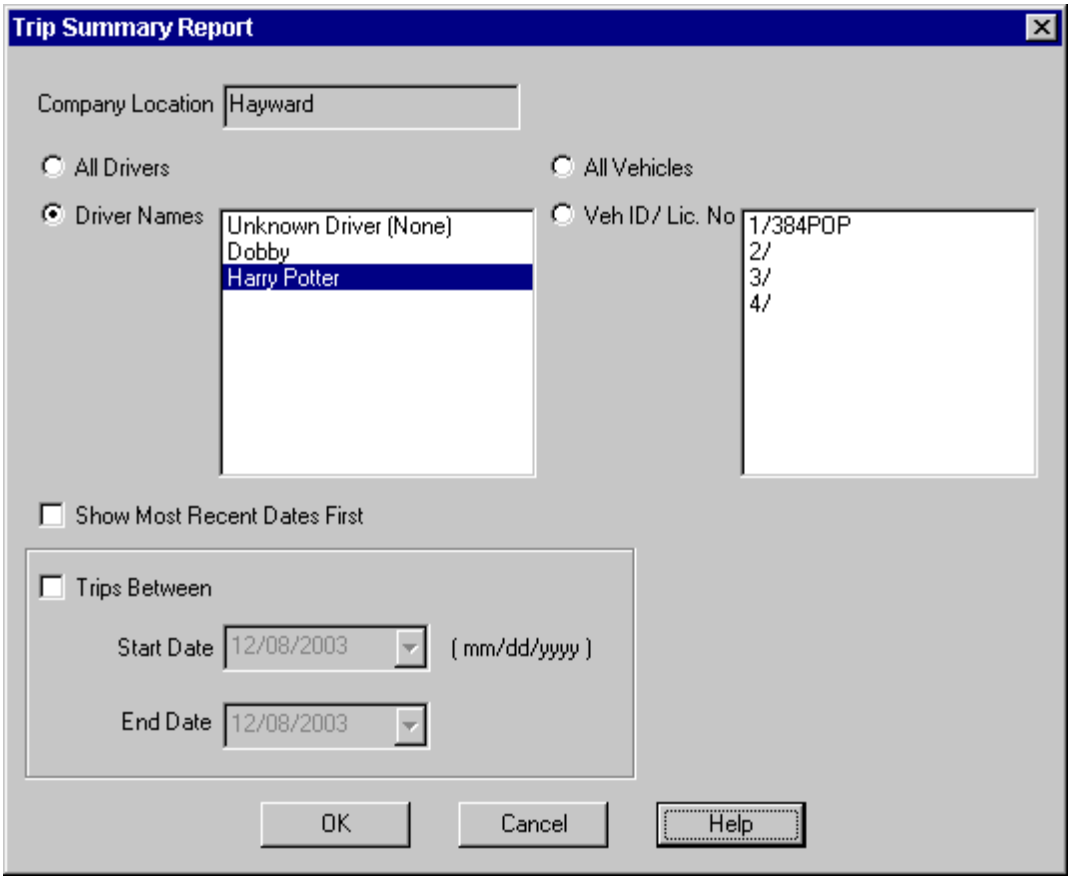
Trip Summary Report

The Trip Summary Report provides a quick and easy-to-read summary of trips taken by either drivers or vehicles. The report also calculates the total trip time and distance for each driver.

To create a Trip Summary Report:

1. Select Trip Summary Report from the Reports Menu. The Trip Summary Report dialog box is displayed.



2. Verify the Company Location. Use the Current Location command in the Setup Menu to change the location if necessary.

3. Select the Sorting criteria from the drop-down list.

4. Select All Drivers to print the report for all drivers, or select Driver Names to create the report for specific drivers.

5. If you are creating a report for specific drivers, click on the drivers name in the list.
   - Click once to select the drive and click a second time to de-select the driver.
   - Multiple drivers can be selected for the report.

6. Select All Vehicles to print the report for all vehicles, or select Veh ID/ Lic. No to create the report for specific vehicles.

7. If you are creating a report for specific vehicles, click on the vehicles ID in the list.
   - Click once to select the vehicle and click a second time to de-select the vehicle.
   - Multiple vehicles can be selected for the report.

9. Check "Show Most Recent Dates First" to list trips from the most recent trip to the oldest. If this box isn't checked the trips will be listed from the oldest trip to the most recent.

10. To specify a start date and end date for the report, check Trips Between and then enter the starting and ending dates.

11. Click OK to create the report or click Cancel to exit the dialog box.

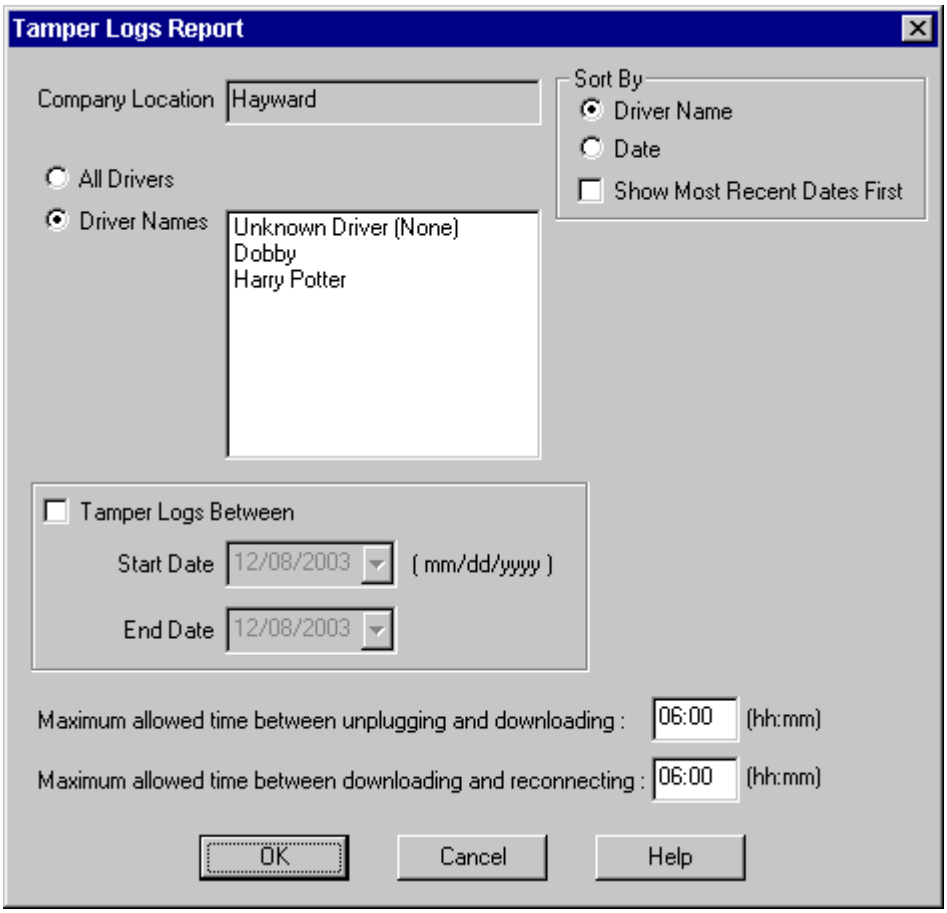
12. You can clear the report using the Clear Screen command in the File Menu or by clicking on the Clear Screen icon: .

Tamper Logs Report

The Tamper Logs Report allows you to view the tamper logs for the selected drivers. The report is displayed by the DriveRight FMS Report Viewer.

To view the Tamper Logs Report:

1. Select Tamper Logs Report from the Reports Menu. The Tamper Logs Report dialog box is displayed.



2. Verify the Company Location. Use the Current Location command in the Setup Menu to change the location if necessary.
3. Select the Sort by criteria by clicking next to either Driver Name or Date.
4. Check "Show Most Recent Dates First" to list trips from the most recent trip to the oldest. If this box isn't checked the trips will be listed from the oldest trip to the most recent.
5. Check All Drivers to create an Tamper Logs Report for all drivers in the database.
6. Check Driver Names to create an Tamper Logs Report for specific drivers in the database.

7. If you are creating the report for specific drivers, select the driver name from the list.
    - Click once to select a driver. Click a second time to de-select.
    - Multiple drivers can be selected for the report.
8. Select Tamper Logs Between to create a report that only lists Tamper Logs recorded between specific dates. If you select Tamper Logs Between, then indicate the Start Date and End Date for the report.
9. Enter the maximum allowable time between unplugging the DriveRight and downloading. The report will include all include all times the limit was exceeded.
10. Enter the maximum allowable time between downloading the DriveRight and reconnecting to the vehicle. The report will include all include all times the limit was exceeded.
11. Click OK to create the report or click Cancel to exit the dialog box.
12. You can clear the report using the Clear Screen command in the File Menu or by clicking on the Clear Screen icon: .

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Relationship Report

The Relationship Report displays the vehicle and default driver assigned to each of the DriveRight devices in your database.

To view the Relationship Report:

1. Select Relationship Report from the Reports Menu. The report is displayed using the DriveRight FMS Report Viewer.
2. You can clear the report using the Clear Screen command in the File Menu or by clicking on the Clear Screen icon: .

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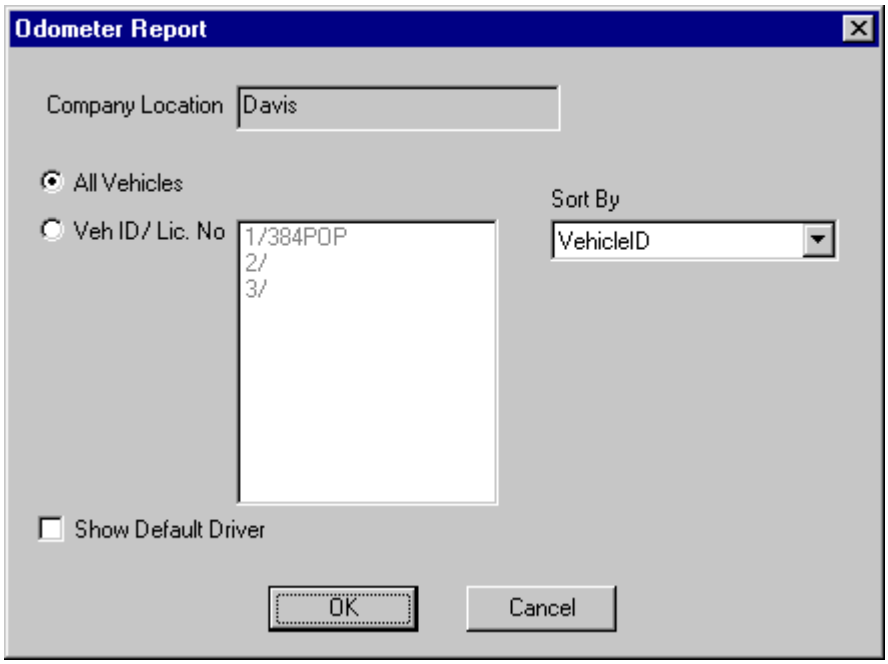
Odometer Report

The Odometer Report allows you to view the odometer reading for vehicles in the database, as well as the number of days since the last download for that vehicle and the date the last odometer adjustment was made. A report option allows you to included the default driver for each vehicle listed in the report.

To view the Odometer Report:

1. Select Odometer Report from the Reports Menu. The Odometer Report dialog box is displayed.



2. Verify the Company Location. Use the Current Location command in the Setup Menu to change the location if necessary.
3. Check All Vehicles to create an Odometer Report for all vehicles in the database.
4. Check Veh ID/Lic. No to create an Odometer Report for specific vehicles in the database.
5. If you are creating the report for specific vehicles, select the vehicle's ID from the list.
    - Click once to select the vehicle and click a second time to clear the vehicle.
    - Multiple vehicles can be selected for the report.
6. Select the Sort By criteria from the drop-down list: Vehicle ID, License and Odometer.
7. Check Show Default Driver if you want the name of the default driver for each vehicle included in the report.
8. Click OK to create the report or click Cancel to exit the dialog box.
    - If you click OK, the report is displayed using the Report Viewer.
    - You can print the report using the Print command in the File Menu.
9. You can clear the report using the Clear Screen command in the File Menu or by clicking on the Clear Screen icon: .

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Mapping Menu

Mapping Menu

Note: DriveRight FMS Mapping requires Microsoft MapPoint.

The following commands are available in the Mapping Menu:

Open Map
Save Map
E-Mail Map
MapPoint Version
Set Speed Range

See also:
Mapping Quick Reference Menu
DriveRight FMS Mapping Requirements

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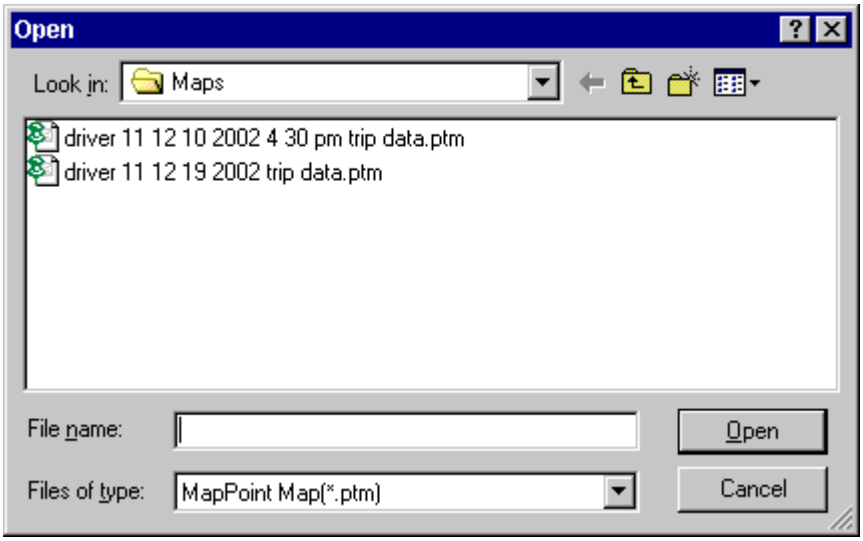
Open Map

Use the Open Map command to view a previously saved DriveRight GPS map.

To open a map:

1. Select the Open Map command in the Mapping menu. The Open dialog box is displayed.



2. Click the map file you wish to view and then click Open, or just double-click the file to open it. The map is opened in the FMS window.

3. Click the Clear Screen Icon to remove the map from the FMS window, or use the File Menu Clear Screen command.

See Also:

Viewing Maps

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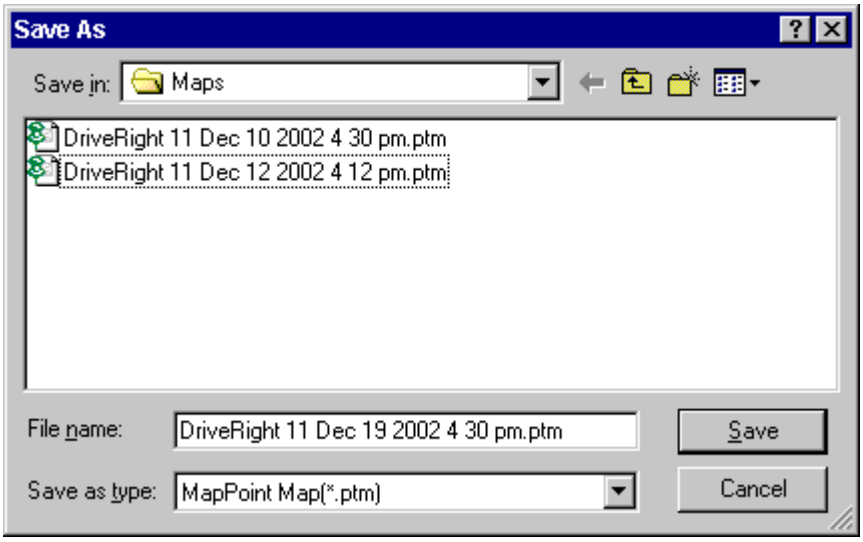
Save Map

Use the Save Map command to save a DriveRight GPS map.

To save a map:

1. Select the Save Map command in the Mapping menu. The Save As dialog box is displayed.



2. Enter the file name for the map file then click Save to save the map or click Cancel to exit the dialog box without saving the map.

Note: The Maps directory is located in the DriveRight FMS program folder.

See Also:

Mapping GPS Data in DriveRight FMS

Viewing a Map

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E-Mail Map

Use the E-Mail Map command to e-mail a DriveRight GPS map.

Note: DriveRight FMS can only e-mail the map currently displayed in the program window. Requires MS Outlook.

To e-mail a map:

1. Select the E-Mail Map command in the Mapping menu. DriveRight FMS opens a new mail message window in MS Outlook with the map included as an attachment.
2. Address the message and edit the subject and content as you desire.
3. Click Send to send the message or close the message window to cancel the e-mail .

See also:

Viewing Maps

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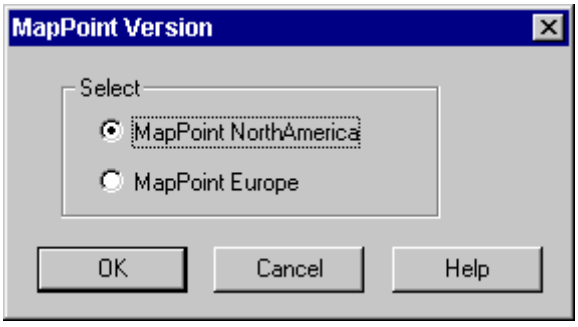
MapPoint Version

Use the MapPoint Version command to select either MapPoint North American or MapPoint Europe.

To select your MapPoint version:

1. Click on the MapPoint Version command in the Mapping menu. The MapPoint dialog box is displayed.



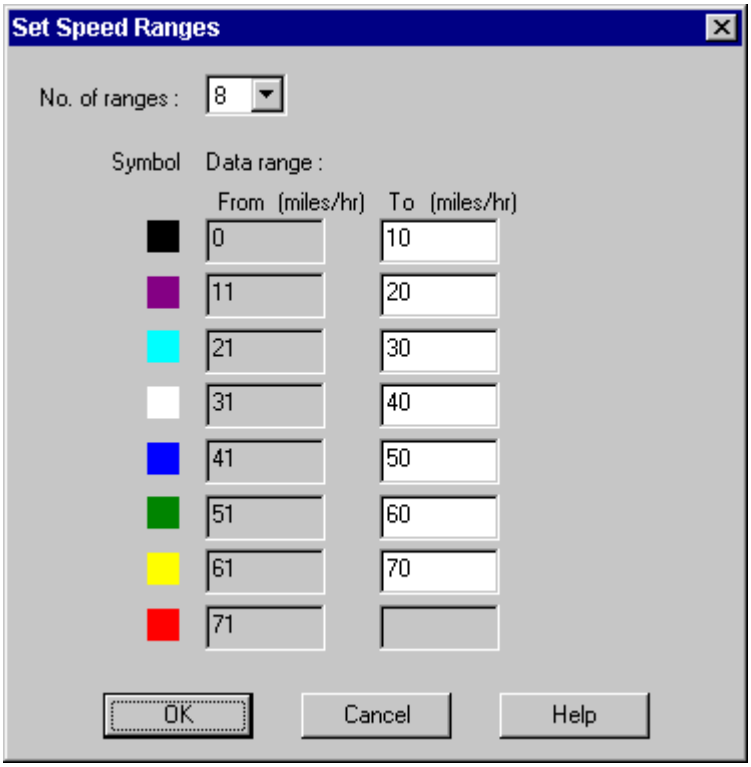
2. Click on the MapPoint version you are using to select it.
3. Click OK to change the MapPoint version or click Cancel to exit the dialog box without changing the MapPoint version.

Set Speed Ranges

You set up to 8 speed ranges to identify vehicle speed in DriveRight FMS mapping reports.

To set the speed ranges:

1. Click Set Speed Ranges command in the Mapping menu. The Set Speed Ranges dialog box is displayed.



2. Select the number of speed ranges to be used in mapping reports. Each range will be represented by a push-pin of the indicated color when a map is created.
3. Edit the "To" column to adjust the speeds indicated for each range.
4. Click OK to save the changes or click Cancel to exit without saving the changes.

See also:

Mapping Overview

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Help Menu

The following commands are available in the Help Menu:

- **Help Topics**
  Opens the Help Topics window showing the Contents, Index, and Search options.

- **About DriveRight FMS 3.4**
  Displays the program version information, the release date, and the copyright information.

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Troubleshooting

Troubleshooting Menu

If you encounter problems installing or using DriveRight FMS, please contact Davis Instruments Technical Support.

Note: If you encounter any type of problems, the errors are logged in the log file eventLog.txt, present in DriveRight FMS install directory.

The following DriveRight FMS troubleshooting help is available:

Device Communication Problems
Database Connection Problems
Miscellaneous Problems
Contacting Davis Instruments

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Device Communication Problems

Take the following steps if the software does not communicate with a DriveRight or CarChip device:

1. DriveRight devices only - Check to make sure the DriveRight console is in the CURRENT mode instead of in sleep mode. If the LCD screen is blank, the console is in sleep mode. Press the MODE key to put the console in active mode..
2. Check that the correct Serial Port is selected.
3. If you have other programs running which use the serial port, such as the Palm HotSync Manager and the CarChip software, close those programs and try again.
4. Check if the hardware is ok and that you have a working communication port. If necessary, contact your PC supplier.

See also:

Communications Port - DriveRight

Communications Port - CarChip

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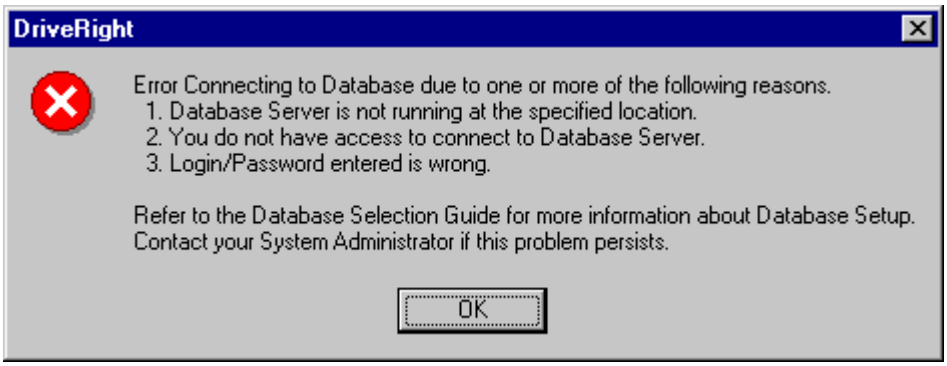
Database Connection Problems

Since DriveRight FMS supports multiple database systems, things could go wrong during database connection due to various reasons.

Database Setup Error

Refer to the instructions in the message box if you get the following error message:



Database Not Setup Properly

Refer to the instructions below if you get the following error message:

- If you are using MS Access: The database does not exist at the specified location.
- If you are using any other database: Either the database server is not running, or you do not have enough permissions to connect. Please refer to database configuration in the DriveRight FMS Database Selection Guide.

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Software Problems

To be provided.

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Miscellaneous Problems

If you selected the wrong database type during the initial program configuration, you can manually reset the database type in the *config.txt* file and then start over all again.

1. If DriveRight FMS is open, close it.
2. First locate the configuration file *config.txt* present in DriveRight FMS install directory.
3. Open the file (it should come up in MS Notepad), and you'll see the following text near the beginning of the file:

```
################################################
# this variable represents the database type
# used to store the data
# 0- represents Database connection is not yet configured
# 1- represents MS Access
# 2- represents MySQL
# 3- represents Oracle
```

```
# 4- represents MSDE/MS SQL
##################################################
   DATABASE_TYPE=2
```

4. Edit the last line, and replace the number by *0 (zero, not capital O)*. After you edit the variable, the text in the file looks like this:

```
   DATABASE_TYPE=0
```

5. Save the file and close MS Notepad.

6. Run DriveRight FMS again and you will prompted to select the database type. If you need assistance, refer to the database installation instructions in the *DriveRight FMS Database Selection Guide*.

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Contacting Davis Instruments

You may contact Davis Instruments for technical support or product information using any of the methods shown below.

Technical Support

Our Technical Support Team is available Monday through Friday, 7:00 a.m. to 5:30 p.m. Pacific Time. Or use our website, fax, fax-back, or e-mail any time day or night.

Phone Technical Support: 510-732-7814

Fax Technical Support: 510-670-0589

E-Mail Technical Support

Automotive Support Web Site

The Automotive Support section of our web site is your source for DriveRight FAQs, instruction manuals, software downloads, and spec sheets.

Other Ways to Contact Davis Instruments

Sales (US & Canada): 800-678-3669

Sales (Outside the US & Canada): 510-732-9229

Fax: 510-670-0589

E-Mail to our Customer Service Department: sales@davisnet.com

E-Mail comments or general information to info@davisnet.com

Davis Instruments Web Site

Visit the Davis instruments web site to find additional products

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