



DriveRight[®] FMS 3.9.3

User's Manual

Product # 8186

DAVIS

Davis Instruments

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DriveRight Fleet Management Software Version 3.9.3 Users Manual Rev. K (9/16/2009)

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Table Of Contents

DriveRight FMS Help	1
Welcome to DriveRight Fleet Management Software	1
Getting Started Menu	1
Getting Started Menu	1
Introduction to DriveRight FMS	1
What's New for DriveRight FMS 3.9.3	2
Prior Release Notes	3
DriveRight Fleet Management Software v3.9.2 Release Notes	3
DriveRight Fleet Management Software v3.9.1 Release Notes	4
DriveRight Fleet Management Software 3.8 Release Notes	5
DriveRight Fleet Management Software 3.7.2 Release Notes	5
DriveRight Fleet Management Software 3.7.1 Release Notes	5
DriveRight Fleet Management Software 3.7 Release Notes	6
DriveRight Fleet Management Software 3.6 Release Notes	7
DriveRight Fleet Management Software 3.5 Release Notes	7
DriveRight Fleet Management Software 3.4 Release Notes	8
DriveRight Fleet Management Software 3.3 Release Notes	8
DriveRight Fleet Management Software 3.2 Release Notes	9
DriveRight Fleet Management Software 3.1 Release Notes	9
DriveRight Fleet Management Software 3.0 Release Notes	10
Architecture	11
Database Selection Guidelines	12
Converting 2.04-2.06/2.6.1 Database to DriveRight FMS Format	13
Setup Overview	15
Tool Bar	17
List of Toolbar Icons	17
Quick Reference	19
FMS Quick Reference	19
Data Management	19
Data Management Reference Menu	19

Database Backup Considerations	20
Active Database Size Recommendations	21
Backup	22
Restore	23
Export Menu	25
Import Menu.....	26
CarChip Quick Reference	26
CarChip Quick Reference.....	26
Adding Drivers, Vehicles and CarChips	26
CarChip Considerations	27
CarChip Settings.....	27
Downloading CarChip Guidelines.....	28
Download CarChip	28
DriveRight Quick Reference.....	29
DriveRight Quick Reference	29
Adding Drivers, Vehicles and DriveRights.....	29
DriveRight Settings	30
DriveRight Settings: Verify DriveRight Calibration	30
DriveRight Settings: Setup GPS.....	31
Downloading Requirements	32
Download DriveRight.....	33
Download Palm.....	34
Mapping Quick Reference Menu.....	36
Mapping Quick Reference Menu	36
How to Create Maps	36
Creating a Trip Map	37
Creating a Day Map.....	38
Creating an Accident Log Map	38
Export: GPS to MapPoint	39
Export: Accidents to MapPoint	41
Import GPS Data Into MapPoint.....	42
How to View Maps	43

Viewing Trip Maps	44
Viewing Day Maps	44
Viewing Accident Log Maps	44
Accident Log Map Features.....	45
Day Map Features	51
Viewing Trips in Overview Mode.....	55
Viewing Individual Trips	56
Viewing Trips in Overview Mode.....	58
Viewing Individual Trips	59
Trip Map Features	61
Mapping Menu	69
DriveRight FMS Mapping Requirements	70
Viewing GPS Plot Information	71
Wireless Quick Reference Menu.....	71
Wireless Quick Reference Menu	71
How to Add a Base Station.....	72
How to Add a Wireless On-Board Module.....	73
How to Select an Operating Region	75
How to Scan for Wireless On-Board Modules	76
How to Set Up an Automatic Wireless Download	78
How to Start a Manual Wireless Download	80
How to Upgrade Firmware.....	81
Menu Commands.....	83
Menu Commands Menu	83
File Menu.....	84
File Menu	84
Backup.....	84
Restore	86
Import Menu.....	88
Import: FTP Import.....	88
Import: Import Data From	90
Import GPS Data Into MapPoint	91

Export Menu	92
Export: FTP Export	93
Export: GPS to MapPoint	94
Export: Accidents to MapPoint	96
Export: Export Data To	97
Print	98
Print Preview.....	99
Print Setup	99
Clear Screen.....	99
Exit.....	100
Setup Menu	100
Setup Menu	100
Current Location	101
Users Menu	101
Users: Login.....	102
Users: Browse/Add	102
Users: Change Password.....	103
Preferences Menu	104
Preferences: Units	104
Preferences: Backup Options.....	105
Preferences: Download Options.....	106
Night and Weekend Settings	108
Preferences: Database Browser.....	109
Host Mode Menu	109
Host Mode On.....	109
Host Mode Setup.....	110
Remote Modem Setup - Using Hyper Terminal	111
Communications Port - CarChip Settings.....	115
Communications Port - DriveRight Settings	116
SmartCard Reader.....	117
Default DriveRight Settings Menu	118
Default DriveRight Settings Wizard	118

Default DriveRight Settings View/Set	120
Unit Settings	121
Safety Settings.....	123
Timer Settings.....	124
Alarm Settings	125
Security Settings.....	126
GPS Settings - Default DriveRight Settings	128
Default CarChip Settings	129
Digital Input labels	130
Corporate Structure	131
DriveRight Menu.....	133
DriveRight Menu	133
Add DriveRight Wizard	134
Download DriveRight.....	136
DriveRight Settings	138
DriveRight Settings: View/Set.....	138
DriveRight Settings: Restore	139
DriveRight Settings: Setup GPS.....	140
DriveRight Settings: Verify DriveRight Calibration	141
Read Accident Log	142
Read Tamper Log.....	143
Set Time and Date.....	143
Set Odometer	144
Set Service Alarms	145
Set Drivers List	146
Clear DriveRight	148
CarChip Menu	148
CarChip Menu.....	148
Add New CarChip Wizard.....	149
CarChip Settings.....	151
CarChip Settings: View/Set	151
CarChip Settings: Restore.....	153

Download CarChip	154
Set Time and Date.....	154
Set CarChip LED	155
Set CarChip Alarm.....	156
Set Anomalous Vehicle	157
Reset Check Engine Light.....	159
Display CarChip Memory.....	160
Clear CarChip Memory	160
SmartCard Menu	161
SmartCard Menu	161
SmartCard Download	161
Setup Card.....	162
SmartCard Transfer to DriveRight.....	164
Transfer to DriveRight Settings	164
Identification Settings - SmartCard.....	165
Calibration Settings - SmartCard.....	167
Unit Settings - SmartCard.....	168
Timer Settings - SmartCard	169
Safety Settings - SmartCard.....	170
Alarm Settings - SmartCard.....	171
Security Settings - SmartCard	173
GPS Settings - SmartCard	174
Drivers List.....	175
Clock Adjustment.....	176
SmartCard Clear Transfer Data.....	177
SmartCard Erase.....	178
Wireless Menu	178
Wireless Menu	178
Add New Base Station.....	179
Add New Wireless On-Board Module.....	180
Scan Wireless On-Board Modules	182
Setup Automatic Wireless Download	184

Start Manual Wireless Download	186
Wireless Download Status.....	187
Upgrade Firmware	189
Select Operating Region	191
Database Menu	192
Database Menu	192
Company Locations	193
DriveRights	193
CarChips	194
Driver Groups	195
Wireless Devices	195
Drivers	196
Fleets	196
Vehicles	197
Trips	197
Accident Logs	198
Tamper Logs.....	199
Trip Addresses.....	200
Days.....	200
Download Dates	201
GPS	201
Odometer Logs.....	202
Safety Score	203
Trouble Codes	203
Readiness Codes	204
CarChip Parameter Logs.....	206
Maintenance	207
Filter For Deleting Trips	208
Filter For Deleting Accident Logs	209
Filter For Deleting Tamper Logs.....	210
Filter For Deleting Days.....	211
Filter For Deleting Download Dates.....	212

Filter For Deleting GPS	213
Filter For Deleting Odometer Logs	215
Filter for Deleting CarChip Parameter Logs	215
Reports Menu	217
Reports Menu	217
Accident Log Report	217
Driver Safety Score Report.....	218
Driver Safety Score Summary Report	220
Exception Reports	221
Excessive Speed Report	222
Night Driving Report	223
Hard Braking Report.....	224
Hard Acceleration Report	226
Time Over Speed.....	227
Database Reports.....	228
Vehicles Report	228
Trip Addresses Report.....	229
Drivers Report.....	230
Usage Report.....	230
Trip Summary Report	232
Vehicle Activity Report.....	234
Graphical Day Report	236
Tamper Logs Report.....	238
Odometer Report.....	240
Relationship Report	242
Days Since Last Download.....	242
Wireless Download Status Report.....	243
Mapping Menu	244
Mapping Menu	244
Open Map	244
Save Map.....	245
E-Mail Map.....	246

Select Mapping Tool	247
Set Speed Ranges	247
Help Menu	248
Troubleshooting	249
Troubleshooting Menu	249
Device Communication Problems	249
Database Connection Problems	250
Wireless Device Communication Problems	250
SmartCard Desktop Reader Device Communication Problems	258
Installing Drivers for the SmartCard Desktop Reader	258
Miscellaneous Problems	262
Contacting Davis Instruments	263
Index	265

DriveRight FMS Help

Welcome to DriveRight Fleet Management Software

Click on the topics below for help using DriveRight® Fleet Management Software (FMS) version 3.9.3:

[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.

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

September 17, 2009

Getting Started Menu

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 3.9.3](#)

[Release Notes for Versions 3.9.2, 3.9.1, 3.8, 3.7.2, 3.7.1, 3.7, 3.6, 3.5, 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](#)

Back to [Home](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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 acquiring, sorting, tracking, analyzing and printing data, and viewing and printing reports for a number of individual DriveRight consoles and CarChip devices 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
- Ability to download DriveRight information via the optional [SmartCard](#) System
- Ability to download DriveRight and CarChip information via the optional [Wireless](#) Download System
- Tamper logs
- Sorting data and creating reports according to user-defined selection criteria
- Summarize data by day and by trip
- Integrated Microsoft MapPoint, Google Earth™, and Google Maps™ support for mapping of GPS data
- Compare vehicles, drivers, or groups of drivers
- FTP Export / FTP Import data

See also:

[Architecture](#)

[Copyrights](#)

Back to [Getting Started](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

What's New for DriveRight FMS 3.9.3

DriveRight Fleet Management Software version 3.9.3 includes the following changes:

- FMS is now compatible with MapPoint 2009.
- A Graphical Day Report has been added and can be accessed from Reports > Graphical Day Report menu.
- A Hard Acceleration Report has been added to Reports > Exception Reports.
- CarChip "restore settings" feature has been added to this release and can be accessed from the CarChip > CarChip Settings > Restore. This command will reset the CarChip settings with the database record of the selected CarChip.

- A "Set Anomalous Vehicle" command is now available in FMS. The anomalous vehicle can be set using Add New CarChip wizard. It can also be set through CarChip > Set Anomalous Vehicle or CarChip > CarChip Settings > Set command. Please note that this feature is not for pre-CAN versions of CarChip. Supported excepted vehicles and protocols depend on the firmware version.
- Oracle login password has been encrypted to improve security.
- Connection and query timeout for Microsoft SQLServer has been increased to 120 seconds.
- Calculation of Time Over Speed has been improved to be more accurate.
- The calculation of Max Download Days in the Driver Safety Score report has been modified for accuracy.
- SmartCard Reader Driver has been upgraded in FMS Setup programs.
- Print and Print Preview for the Accident Log Report have been fixed.
- This release was built with CarChip.dll 3.2.2.0.

Back to [Getting Started](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Prior Release Notes

DriveRight Fleet Management Software v3.9.2 Release Notes

DriveRight Fleet Management Software version 3.9.2 includes the following changes:

- Google Earth™ and Google Maps™ are added as additional mapping tools to MapPoint. Users may select their mapping tool from Mapping > Select Mapping Tool. Once a mapping tool is selected, Trip Maps, Day Maps and Accident Log maps will be generated using the selected mapping tool. Mapping with Google Maps requires an internet connection and a web browser to work. Mapping with Google Earth requires a copy of that program, which may be downloaded at no charge from Google's web site.
- New wireless device firmware version 10E0 is available in this release. User may update the firmware of Base Stations and Wireless On-Board Modules through Wireless > Upgrade Firmware.
- To improve performance and reduce the file size of the Access database, FMS will compact the database when the user exits if MS Access is the database type currently in use. This process will not require the user's confirmation. In case of error, an error message will be logged in EventLog.txt.
- Import/Export, FTP Import/Export, and Backup/Restore features are now supported for the database table TroubleCodes and ReadinessCodes.

- The Database > Maintenance menu is now enabled/disabled properly according to user's privileges.
- In filter dialogs of Driver Safety Score report and Driver Safety Score Summary report, the current location is used as default selection for Company Locations list.
- The Company Name field in Add/Edit Company Location dialog is fixed to allow company name up to 40 characters and will automatically scroll horizontally.
- In Trip Summary Report, dashes are displayed for the Idle Time column if the trips are from DR500.
- This release was built with CarChip.dll 3.2.1.0.

DriveRight Fleet Management Software v3.9.1 Release Notes

DriveRight Fleet Management Software version 3.9.1 includes the following changes:

- A new comprehensive report is added to this release to show Vehicle Activities. Users can generate a report for a date range, selected vehicles, or drivers with exception limit settings. This report can be viewed in FMS report viewer or in an Excel file. It can be accessed from the Reports menu, and Email support has also been added to this report.
- Weekend and Night settings have been moved from the Usage Report to the system level and can be accessed from Setup->Preferences. These settings are now shared by the Usage Report, Wireless Download, and the Vehicle Activity Report.
- The GPS map has been improved to show coordinates within (-3, 3).
- This release was built with CarChip.dll 3.2.1.0.

DriveRight Fleet Management Software version 3.9. was a Beta Release, and included the following changes:

- Idle time feature (CarChip only) is implemented in this release. Idle time for each trip is stored in database Trips table. A user may run the Trip Summary Report to show the idle time for each trip and total idle time for a driver or vehicle. The report can be viewed in FMS report viewer or in an Excel file, and Email support has also been added to this report.
- FMS is improved to handle trouble codes during download to avoid trouble codes missing problems.
- Oracle database migration issues to FMS 3.8 release are solved.
- A problem was corrected wherein DriveRight type was not being displayed when adding a new DriveRight device.
- The text limit for user name and password was increased for FTP Import and Export.
- This release was built with CarChip.dll 3.2.1.0.

DriveRight Fleet Management Software 3.8 Release Notes

DriveRight Fleet Management Software version 3.8 includes the following changes:

- The CarChip Fleet Pro (# 8246) model is now supported in this release.
- GPS has been implemented for CarChip Fleet Pro and is included in the [CarChip Settings](#) and [Add New CarChip Wizard -Parameters/GPS Settings](#) dialog boxes in the **CarChip** menu. The GPS setting allows you to turn on the GPS logging and subsequent mapping feature. This setting works only with a CarChip Fleet Pro model connected to the optional GPS (# 8251, 8128) modules. The GPS data is stored in the database and allows you to create Trip Maps, Day Trips Maps and Accident Maps.
- DriveRight Wireless Download System functionality has now been added for CarChip Fleet Pro. Along with the CarChip Fleet Pro GPS/Wireless Interface Module (# 8251), the Base Station (# 8130), Wireless On-Board Module (# 8129), and the Configuration Cable for Wireless On-Board Module (# 8131) give your fleet the ability to download data directly from CarChip Fleet Pro models to FMS without physically removing the DriveRight devices from the vehicle. The data moves wirelessly from the vehicle to the FMS database. The actions that can be taken when wirelessly downloading a CarChip Fleet Pro can be edited in the [Edit CarChip](#) dialog box.
- The [Download Options](#) dialog box has changes to give you more flexibility in the speed sample downloading settings.
- The [CarChip Parameter Logs](#) database table has been added to the **Database** Menu. The following dialog boxes have been added to supplement the CarChip Parameter Logs database table: [Filter for CarChip Parameter Logs](#), [Print CarChip Parameter Logs](#), and [Filter for Deleting CarChip Parameter Logs](#).
- Audible alarm volume can now be adjusted in the [Set CarChip Alarm](#) dialog box for the CarChip Fleet Pro model of CarChip.
- Trouble codes are recorded during trips more accurately.
- The [Add New User](#) and [Edit User](#) dialog boxes have been changed to add [Corporate Structure](#) as one of the application options.
- The factors in the [Driver Safety Report Formula](#) are improved to make the performance score more accurate.
- MSDE installation is no longer supported by FMS installation. MSDE must be installed manually before FMS is installed if MSDE is the database you wish to use.

DriveRight Fleet Management Software 3.7.2 Release Notes

DriveRight Fleet Management Software version 3.7.2 includes the following changes:

- Fixed an issue regarding the PIN code transferred by the SmartCard Reader not being recognized by the DriveRight Device.
- Duplicate database record error issue was resolved.

DriveRight Fleet Management Software 3.7.1 Release Notes

DriveRight Fleet Management Software version 3.7.1 includes the following changes:

- Password encryption has been added for better security.
- The ability to add multiple Super Users to the database added. Open the [Update User Privileges](#) dialog box or [Add New User](#) dialog box to add or edit Users and change the User Type.
- The [Driver Safety Score](#) and [Excessive Speed](#) Report changed to accurately calculate when Km/hr is selected as the unit of measure in the [Units](#) dialog box.
- The [CarChip](#) database table automatically updates if any changes, such as Alarm and LED state, have been made by the user in FMS.
- The ACS SmartCard Desktop Reader Proprietary Driver is the only driver to be used with FMS. The ACS Proprietary Driver installation process has now been simplified. If the PC/SC driver was installed, it must be removed and the ACS Proprietary Driver must be installed.
- Database configuration process has been improved to enforce database security and avoid object ownership problems in MS SqlServer database.

DriveRight Fleet Management Software 3.7 Release Notes

DriveRight Fleet Management Software version 3.7 includes the following changes:

- DriveRight Wireless Download System functionality is added to FMS. The Wireless Menu contains commands for configuring wireless devices, controlling the wireless communication and downloading features for the Wireless Download System. These new features, along with the Base Station (# 8130), Wireless On-Board Module (# 8129), and the Configuration Cable for Wireless On-Board Module (# 8131) give your fleet the ability to download data directly from the DriveRight devices to FMS without physically removing the DriveRight devices from the vehicle. The data moves wirelessly from the vehicle to the FMS database. The features that are added to support wireless download are:
 - [Wireless Menu](#) - The **Wireless** Menu, in conjunction with the Wireless On-Board Module (# 8129), Base Station for Wireless Download System (# 8130), and the Configuration Cable for Wireless On-Board Module (# 8131) allows you to create a wireless connection between your fleet vehicles and the FMS software.
 - *Manual Wireless Download Icon* added to FMS toolbar.



- [Wireless Devices](#) database table, [Edit Base Station](#), [Edit Wireless On-Board Module](#), and [Select Wireless Device Fields to Print](#) added to the **Database** Menu.
 - [Wireless Download Status Report](#) added to the **Reports** Menu.
- [FTP Export](#) dialog box now include the [Wireless Download](#) database table in the list of possible database tables that you can export.
- [Add Users](#) dialog box now permits user accessibility definitions for the DriveRight Wireless Download System, CarChip and SmartCard Devices.

- Improved many features regarding the FMS database installation and configuration. See **The Database Selection Guide** for more information and for the installation procedures regarding these new improvements. The database improvements are:
 - Fixed a previous issue with the User's PC name being used as a server alias name in the SQLServer database configuration process.
 - Stored procedures for installing and configuring the Oracle database are now integrated into the FMS installation process. There is no need to create the stored procedures manually unless FMS encounters problems when creating them.
 - Database migration from a previous release to the current release has now become a seamless feature. In previous releases, after FMS was upgraded, the connection with the database had to be re-established. Now, FMS automatically uses the previously configured database.
- Data validation added to make sure that the ID numbers assigned to each CarChip and DriveRight are unique.
- The Pin Code and the Driver Logout time can now be transferred to the DriveRight via the SmartCard.
- The [Current Location](#) is now displayed in the FMS title bar.

DriveRight Fleet Management Software 3.6 Release Notes

DriveRight Fleet Management Software version 3.6 includes the following changes:

- Disable Console Login feature added to the Security Settings tab in the [Review DriveRight Security Settings](#) dialog box, [DriveRight Device Settings](#) dialog box, and the [Default DriveRight Settings](#) dialog box. The Disable Console Login feature disables the Login feature on a DriveRight console if a SmartCard Reader is present. This feature is available for DriveRight 600E devices only.
- Disable Console Login column added to the [DriveRight](#) database table. The Disable Console Login column displays the Console Login status of each DriveRight in the database.
- Disable Console Login added to DriveRight database table [Print](#) dialog box.
- [Set Odometer](#) has been disabled for the DriveRight 600E device only.

DriveRight Fleet Management Software 3.5 Release Notes

DriveRight Fleet Management Software version 3.5 includes the following changes:

- The current selected location is now displayed on the title bar of FMS. This allows you to know which location's data is currently being viewed through any window or table in the FMS software.
- Three new options in **Database** Menu: [Readiness Code Database](#), [Trouble Code Database](#), and [Batch Editing](#).
 - The [Readiness Code Database](#) allows you to view all the monitored readiness codes and the status of each code if you use the CarChip Fleet device.

- The [Trouble Code Database](#) allows you to review any trouble code records recorded in a vehicle using the CarChip Fleet device.
- The [Batch Editing](#) feature allows you to [re-assign drivers](#) or [adjust speeds](#) displayed in all the tables in the database of various trips.
- The [CarChip](#) database table has changed to display the interval the CarChip device now logs speed measurements.
- [Miscellaneous Settings](#) has been added to the [Add CarChip Wizard](#) and to the [CarChip Settings](#) dialog box. **Miscellaneous Settings** allows you to control the settings for extra features on the CarChip, such Alarm and LED. The [CarChip Settings](#) dialog box also allows you to chose the update interval the CarChip device now records speed. Previously, the **Vehicle Speed** and **Update Interval** boxes were defaults and could not be user defined. Now, the Interval at which vehicle speed is sampled can be selected.
- A new option was added to the [Download Options](#) dialog box that allows you to specify the number of hours of GPS data you want the DriveRight device to store.
- Fixed a previous issue with the DriveRight and FMS software not recording a second trip that happens within the same minute as a previous trip. The DriveRight device and FMS software now display all trips, even those having the same starting times.
- New database stored procedures have been added. If the software is accessing a database run on a MS SQL Server or Oracle server, some specialized installation may be required. See **The Database Selection Guide** for more information and complete instructions.

DriveRight Fleet Management Software 3.4 Release Notes

DriveRight Fleet Management Software version 3.4 includes the following changes:

- New option in **Setup** Menu: [Corporate Structure](#). The Corporate Structure option allows you to create a hierarchical representation of fleets and how they are distributed company wide. This feature is used in conjunction with the [Driver Safety Score Report](#) in the Reports Menu.
- A new option in the Drive Safety Score Report: Specify Drivers with Mileage option, which displays all drivers with mileage for the specified time period.
- The Serial Port options for both DriveRight and CarChip changed to [Communication Port](#) in the **Setup** Menu, with added USB support.
- USB support for Fleet CarChips added.

DriveRight Fleet Management Software 3.3 Release Notes

DriveRight Fleet Management Software version 3.3 includes the following changes:

- The Inclusion of using an on-board and desktop reader and SmartCard system to transfer data from the DriveRight 600 unit to a computer. This added feature has created the following changes to the FMS software.
 - New menu option in the **Setup** Menu: [SmartCard Reader](#). Lets you select the SmartCard reader type. The SmartCard Reader requires USB driver installation before the SmartCard Reader can be determined and set up.

- New menu: [SmartCard Menu](#). The **SmartCard** menu contains several menu options for setting up, monitoring, and maintaining all the SmartCards and DriveRights using the SmartCard System. The SmartCard menu options are:
 - [Download](#) - Downloads information stored on a card to a selected base from a SmartCard Reader.
 - [Setup Card](#) - Allows you to select user and vehicle information for a card.
 - [Transfer to DriveRight](#) - Uses the card to transfer settings and information to a DriveRight or multiple DriveRight devices.
 - [Clear Transfer Data](#) - Clears the settings and data that sets the DriveRight
 - [Erase](#) - Erases all data stored on the SmartCard
- [GPS Settings](#) included in the **DriveRight Settings** dialog box in the **Setup**, **DriveRight** and **SmartCard** menus. Allows you to turn the GPS logging and subsequent mapping feature on. Works only with DriveRight 600 units with GPS modules.

DriveRight Fleet Management Software 3.2 Release Notes

DriveRight Fleet Management Software version 3.2 includes the following changes:

- Automated [mapping](#) of GPS data.
- New Report: [Driver Safety Score Summary](#). The Drive Safety Score Summary report calculates driver scores and average scores for each month for a 3, 6, or 12 month time period. Each driver's score is calculated for each selected month and displayed in an excel file. The data generated by this report is saved in the Safety Score table in the FMS database. You can sort this report by end date score, report average scores, or driver name and can choose to group the drivers by their location if multiple locations are selected.
- New database table: [Safety Score](#). This table is generated by the Driver Safety Score Summary Report.
- [Driver Safety Score Report](#) replaces Driver Performance Score Report.
- [Driver Safety Score Report Formula](#) replaces Driver Performance Score Formula.
- Exclusive Driver option added to the [Vehicles Table](#). Selecting this option will cause all trip data to be assigned to the default driver even if other drivers are listed in the data.
- The Tamper Log Report now displays the time between unplugging from a vehicle and downloading a DriveRight as well as the time between downloading a DriveRight and reconnecting it to a vehicle.

DriveRight Fleet Management Software 3.1 Release Notes

The most important change in DriveRight Fleet Management Software version 3.1 is support for the CarChip Fleet device. DriveRight FMS 3.1 also includes two new reports.

CarChip Fleet Support

- Download CarChip Fleet data into the DriveRight FMS database.

- Store trip info, accident logs, and tamper logs.
- View and set CarChip Fleet configuration in both the device and FMS database.

Note: DriveRight FMS 3.1 does not store engine data and diagnostic trouble logs in the database. This information can be downloaded and viewed using the CarChip software included on your DriveRight FMS 3.1 CD.

New Reports

- [Time Over Speed Limit Exception Report](#)
- [Days Since Last Download Report](#)

DriveRight Fleet Management Software 3.0 Release Notes

DriveRight 3.0 is a total redesign of the earlier versions of the software. We designed and developed the software with an aim to provide:

- Robust database server support, to be able to handle large data.
- Flexibility to configure and connect to more than one DataBase Management System (DBMS).
- Better Reports for both viewing and printing.
- Improved Database Browser.
- Better organization of data coming from different locations.
- Improved user interface.

Important Features in DriveRight 3.0

- Flexible Database support for almost any relational database which supports SQL language, and has a ODBC driver.
- Supports the following relational database servers: MySQL, Microsoft SQL Server and Oracle.
- Free support for MS Access and MSDE, which are ideal for small fleets with a single user.
- A location field was added to the database tables to facilitate "rolling up" data which makes it possible to manage data from many locations in one database.
- FTP export and import data through the internet making it easier to move data from one location to another.
- Automatic backup and "zipping" of data with the option of keeping a fixed number of months in the database to help speed up operations.
- The "Add DriveRight" wizard makes adding a DriveRight to the program simpler and less prone to mistakes.
- Elimination of redundant reports and the addition of several new reports.
- Reorganized reports menu with several new and redesigned reports.

- Improved viewing and printing of reports.
- New "Usage" report to help trace night and weekend driving.
- Improved exception reports for Excessive Speed, Hard Braking, and Night Driving.
- A "Relationship" report that shows a list of all DriveRights, which vehicles they are assigned to, along with a default driver if one has been assigned.
- Improved browser with user-configurable colors, fonts, and field widths.
- Simplified filter support to make it easier to select what you want.
- Use of standard calendar control for specifying dates.
- Email support for all Excel generated reports.
- Supports Palm PDA download of DriveRight consoles.

Operational differences between DriveRight 3.0 and earlier versions

The operation of DriveRight 3.0 is very similar to 2.x, but there are some fundamental changes that you should be aware of.

- In 2.x the vehicle table contained all the information about a particular DriveRight, in addition to information on the vehicle. However, in 3.0 a new table was introduced, the DriveRights table, which stores DriveRight console information. Vehicle information is stored in the vehicle table, and DriveRight information is stored in the new DriveRights table. In 3.0, a DriveRight must be "assigned" to a vehicle. When your old data is converted, for each vehicle in 2.x a new DriveRight and vehicle is created in the 3.0 database.

Note: A DriveRight is identified using its DriveRight ID, and a particular vehicle is identified using its Vehicle ID.

Note: A "relationship" report was added to the program to help clarify the relationship between vehicles, DriveRights, and drivers.

- The "Set DriveRight" option in 2.06/2.6.1 appears as "View/Set" in the "DriveRight/DriveRight Settings" menu. Unlike 2.06/2.6.1, when changes are made to a DriveRight using this option, they are also stored in the DriveRight table.
- Adding a new DriveRight to the program can now be done more easily using the Add New DriveRight wizard which steps you through the process and helps clarify where you stand with respect to the calibration of the DriveRight.
- You will also notice that every table now has a "location" field. The location field was added to facilitate "rolling up" of data from many locations so they can be managed in one database.

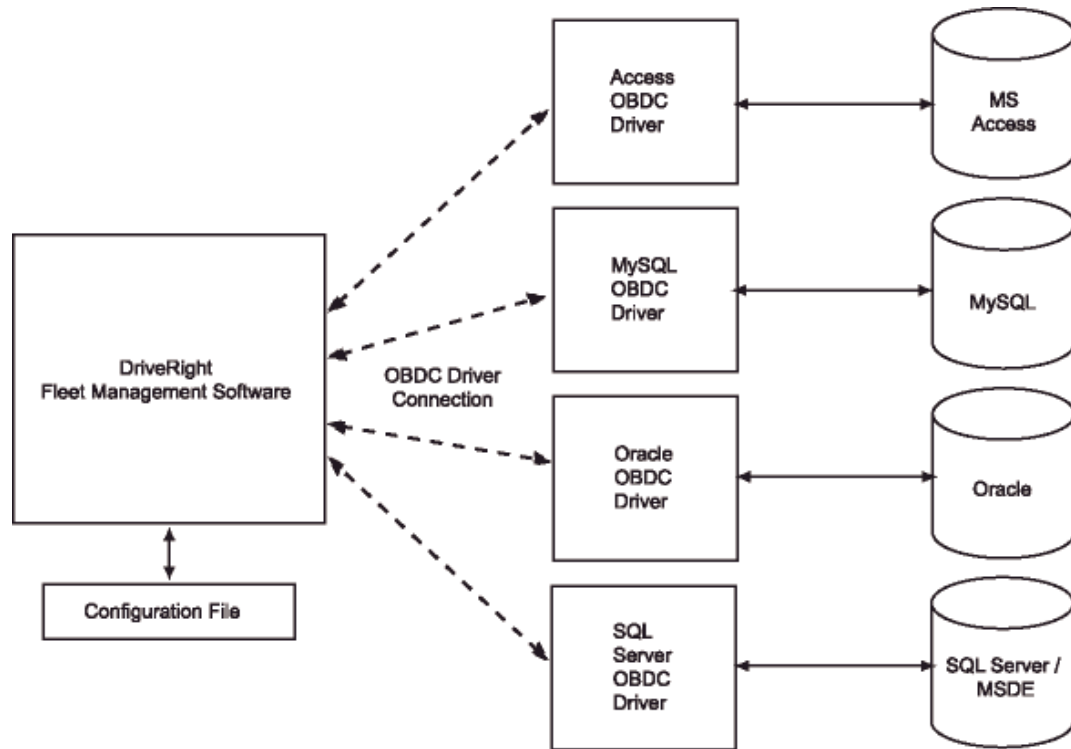
Back to [Getting Started](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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 ODBC connection by means of an ODBC 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 ODBC drivers. The database type is stored in the configuration file.

See also:

[Database Selection Guidelines](#)

[Setup Overview](#)

Back to [Getting Started](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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 web site.

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

See also:

[Architecture](#)

[Setup Overview](#)

Back to [Getting Started](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

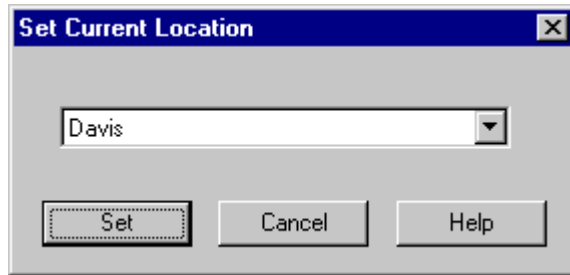
Converting 2.04-2.06/2.6.1 Database to DriveRight FMS Format

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.

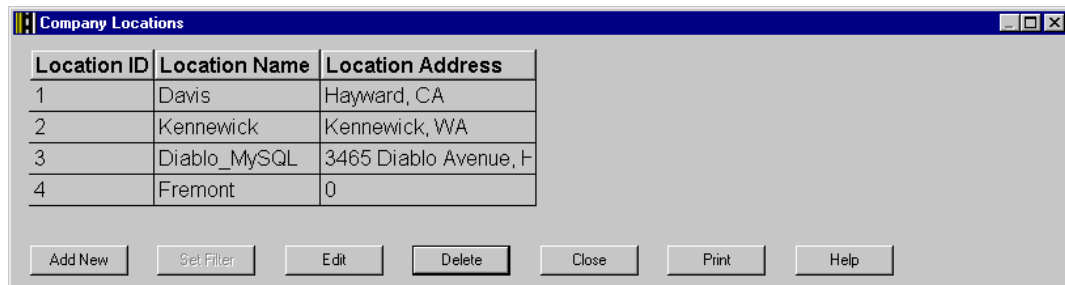
Note: This conversion utility can only be used with databases created by DriveRight 2.04, 2.05, 2.06 or 2.6.1. If you are using an earlier version of the DriveRight software you must first upgrade to one of the supported versions.

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

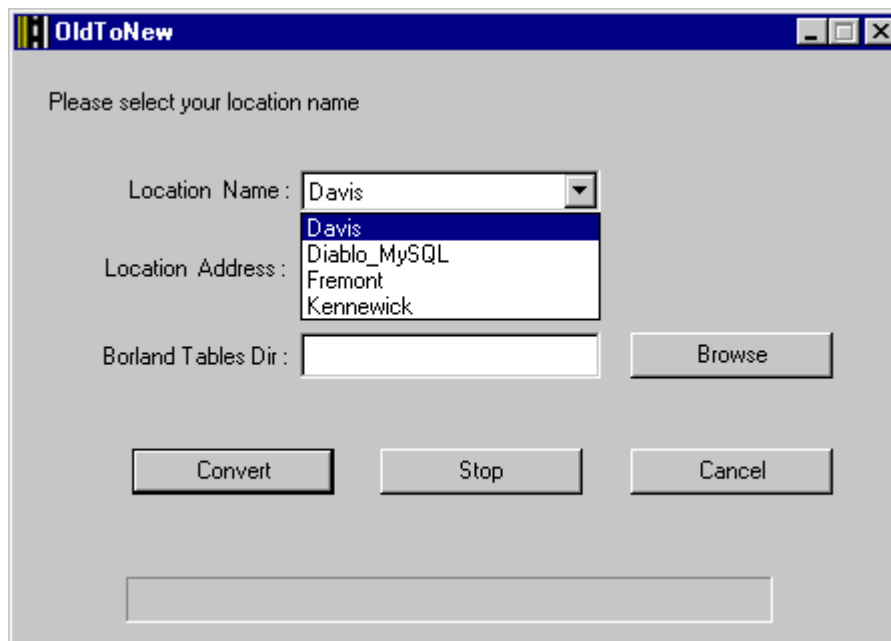
1. Install and run DriveRight FMS before you convert your data to the new format.
2. Verify the current location in DriveRight FMS using the Current Location command in the Setup Menu. This location information will be associated with all the 2.x data when converted into the new database format.



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.

Back to [Getting Started](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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 MS Access, DriveRight FMS will install the necessary components during the FMS installation. If you select MySQL, MSDE, MS SQL Server, or Oracle, you will need to install and configure the database before installing DriveRight FMS. See [Database Selection Guidelines](#) for more information.

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. Install the drivers for accessories you want to use.

Install drivers for the [SmartCard Desktop Reader](#) and [wireless devices](#) if you want to use them. Refer to the *DriveRight FMS Getting Started Guide* for instructions on installing the accessory drivers. See [Wireless Device Communication Problems](#) for help with installing or re-installing your wireless device driver. See [SmartCard Reader Device Communication Problems](#) for help with installing or re-installing your SmartCard Desktop Reader Device driver.

5. 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. Click this link to display a help window that explains how to convert these databases ([Convert Database](#))

6. 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.

[Backup Options](#) - Allows you to set the number of months 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.
- Choose how the software will treat the Driver ID, If a downloaded device is either a 500, 600 or 600E model. Once set, this preference will be uniform for all devices.
- Customize the download options for CarChip devices.
- To determine how the speed samples taken from the CarChip Fleet and CarChip Fleet Pro are saved in the database.

7. 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.

8. 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.

9. Select the Communications Port and Test Communications

- Select **Communications Port - DriveRight** from the **Setup** Menu to select the communications port used to connect to a DriveRight device.
- Select **Communications Port - CarChip** from the **Setup** Menu to select the communications port used to connect to a CarChip device.
- Click **Auto Detect** in the **Communications Port** dialog box to test communication.

10. 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 communications ports, you can connect a CarChip to one communications port and DriveRight to another. If you do not have multiple communications 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.

11. Building Your Database Tables

- When you add a DriveRight or a CarChip 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.
 1. Add all drivers.
 2. Add all vehicles.
 3. Add all DriveRights and CarChips.
- 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 a 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.

12. Using the Software

You are now ready to start using DriveRight FMS.

Back to [Getting Started](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Tool Bar

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



Note: To see the full toolbar, expand the Online Help window to full screen.

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 Safety Score Report](#)



[Trip Summary Report](#)



[Vehicle Activity 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 MapPoint](#)



[Manual Wireless Download](#)

Help Icon



Back to [Getting Started](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Quick Reference

FMS Quick Reference

Get More Information About:

[Data Management](#)

[CarChip](#)

[DriveRight](#)

[Mapping](#)

[The Wireless Download System](#)

Back to [Home](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Data Management

Data Management Reference Menu

[Database Backup Considerations](#)

[Active Database Size Recommendations](#)

[Backup](#)

[Restore](#)

[Export Menu](#)

[Import Menu](#)

Back to [Quick Reference Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Database Backup Considerations

If you have GPS-enabled DriveRight and CarChip Fleet Pro devices, you will rapidly accumulate a large amount of data in the [GPS](#) table due to the frequency of GPS logging and to the [CarChip Parameter Logs](#) database table due to the frequency of vehicle speed logging.

To avoid the database from becoming unmanageable, you can export both the GPS and CarChip Parameter Logs database tables more frequently than your normal backup interval, and delete GPS and CarChip Parameter Log data by using the [Maintenance](#). By doing this you still have trip data for your reports while at the same time decreasing the database size.

The following is an example of backing up and exporting information from the GPS table:

1. Set the [Backup Options](#) (**Preferences** command in the **Setup** Menu) to select the number of months you want to keep active in the database.
2. Suppose that you have some DriveRights and CarChips 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, use [Export](#) 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. Select **Export GPS** from the **Export** Menu.
7. Enter a file name for the GPS export data similar to this: gps_10_apr_2007.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.

Note: The same process can be followed for exporting and deleting CarChip Parameter Log records you no longer want to keep in your active database.

See also:

[Active Database Size Recommendations](#)

[Preferences: Backup Options](#)

[Export Menu](#)

[Maintenance](#)

Back to [Quick Reference Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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 backup 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 backup 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 backup 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 backup 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 backup options you can set maximum of 1 months of data in the active database

See also:

[Active Database Size Recommendations](#)

[Preferences: Backup Options](#)

Back to [Quick Reference Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Backup

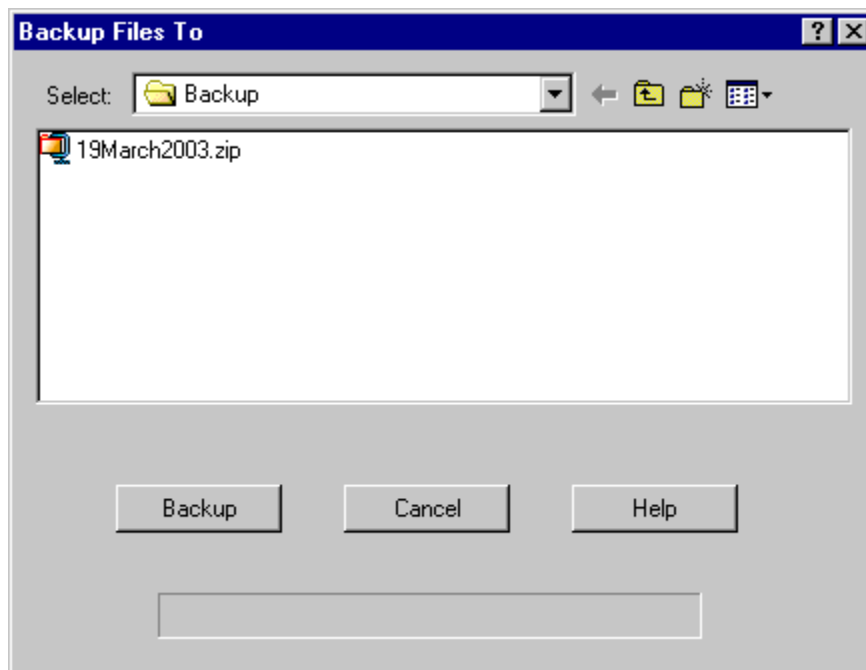
The **Backup** command is used to archive old data as a zip file. The backup files are stored in the Backup sub-directory in the DriveRight FMS install directory. The Backup sub-directory is created the first time you back up your data.

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 [Preferences: Backup Options](#) in the **Setup** menu. Limiting the amount of data in the active database helps prevent the database from growing into an unmanageable size.

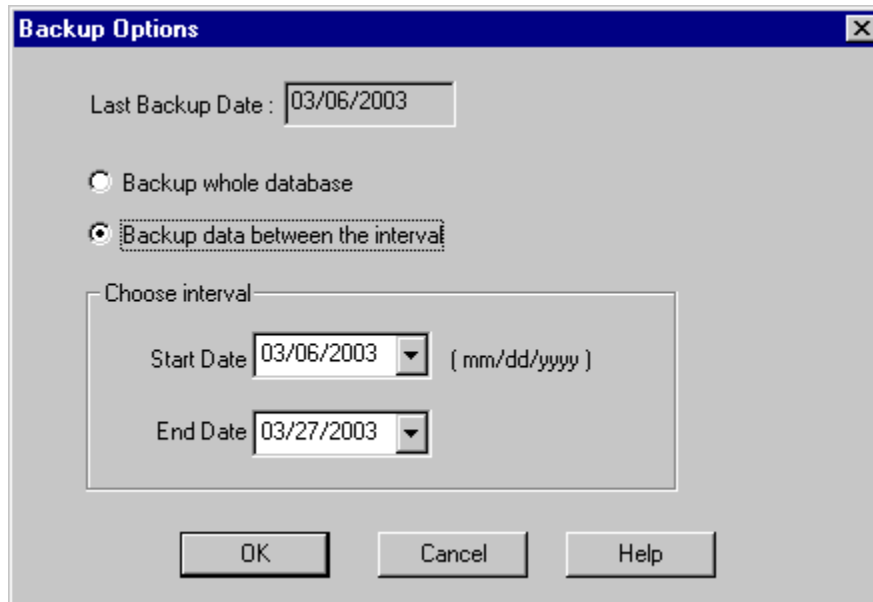
To backup data:

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: Backup Options](#)

Back to [File Menu](#)

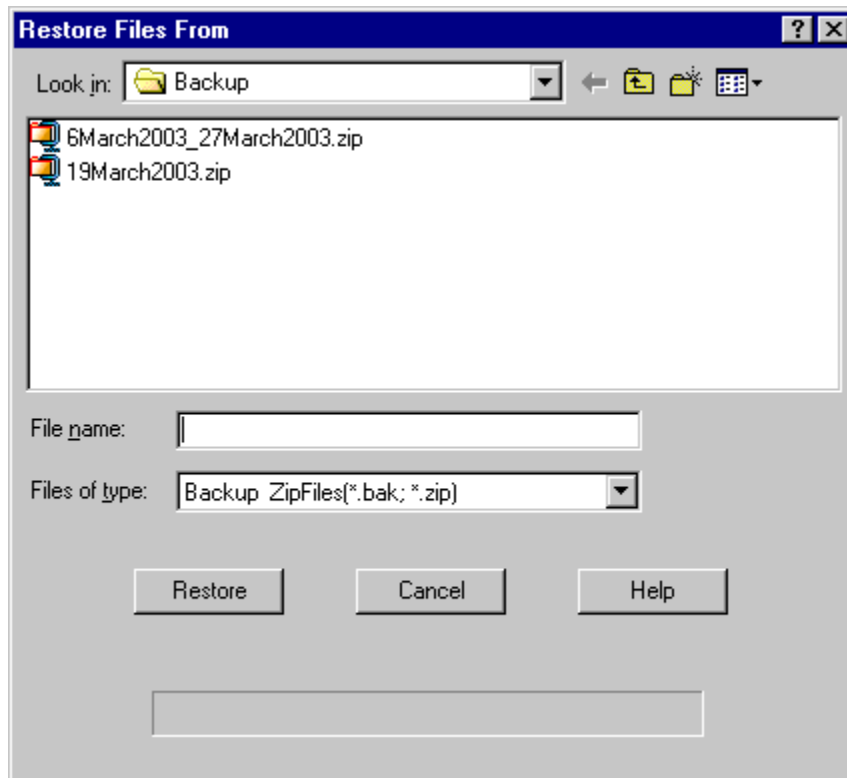
[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Restore

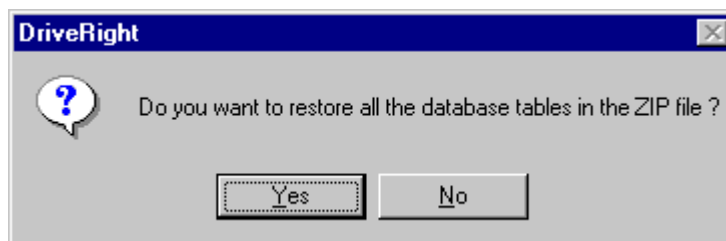
The Restore command is used to get a previously Backed up data back into the active database. In this process you can pick one or more tables to be restored.

To restore data:

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



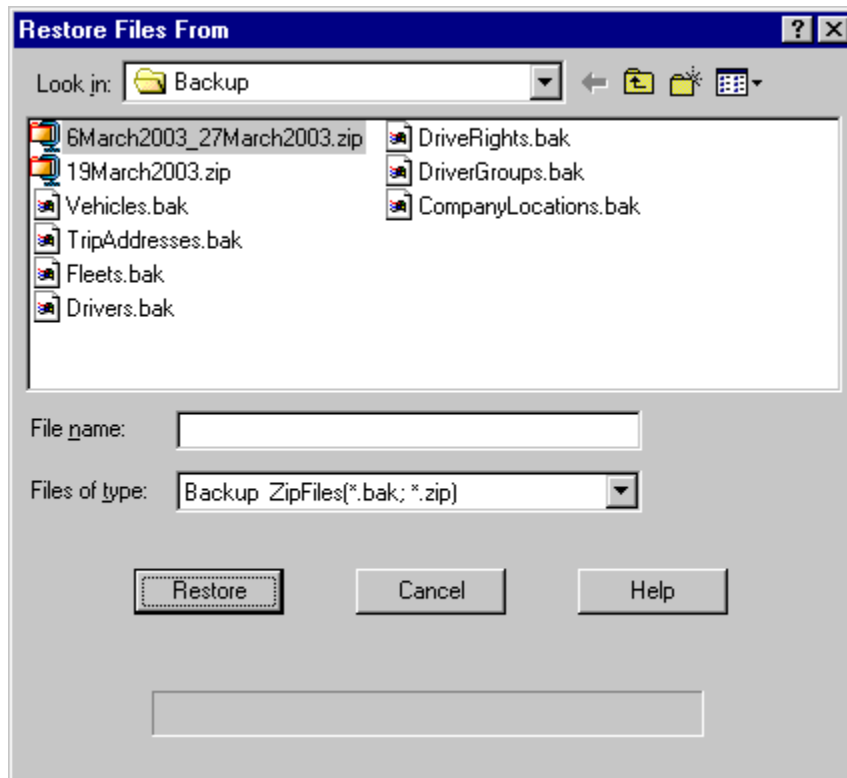
2. From the **Restored Files From** dialog box select a single zip file to restore, and then click **Restore**. DriveRight FMS unzips the file and displays all the tables in the dialog, and displays the following dialog box:



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](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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 MapPoint](#) - 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 MapPoint](#) - 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](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Import Menu

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

[Import: FTP Import](#)

[Import: Import Data From](#)

[Import GPS Data into MapPoint](#)

Back to [File Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

CarChip Quick Reference

CarChip Quick Reference

[CarChip Considerations](#)

[Adding Drivers, Vehicles and CarChips](#)

[CarChip Settings](#)

[Downloading CarChip Guidelines](#)

[Download CarChip](#)

Back to [Quick Reference Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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.

Back to [Quick Reference Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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.

Back to [Quick Reference Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

CarChip Settings

The following commands allow you to view or change the settings on a CarChip:

[View/Set](#)

[Restore](#)

Back to [CarChip Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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.

Back to [Quick Reference Menu](#)

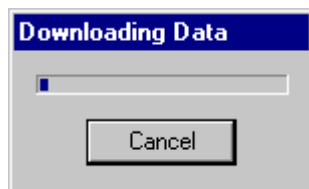
[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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. Select **Download CarChip** from the **CarChip** menu or select the **Download CarChip** icon from the tool bar. The **Downloading Data** dialog box appears.



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

See also:

[Downloading CarChip Guidelines](#)

Back to [CarChip Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

DriveRight Quick Reference

DriveRight Quick Reference

DriveRight Configuration

[Adding Drivers, Vehicles and DriveRights](#)

[DriveRight Settings](#)

[Verify DriveRight Calibration](#)

[Setup GPS](#)

[Downloading Requirements](#)

[Download DriveRight](#)

[Download Palm](#)

[Database Menu](#)

[Reports Menu](#)

Back to [Quick Reference Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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](#)

Back to [Quick Reference 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](#)

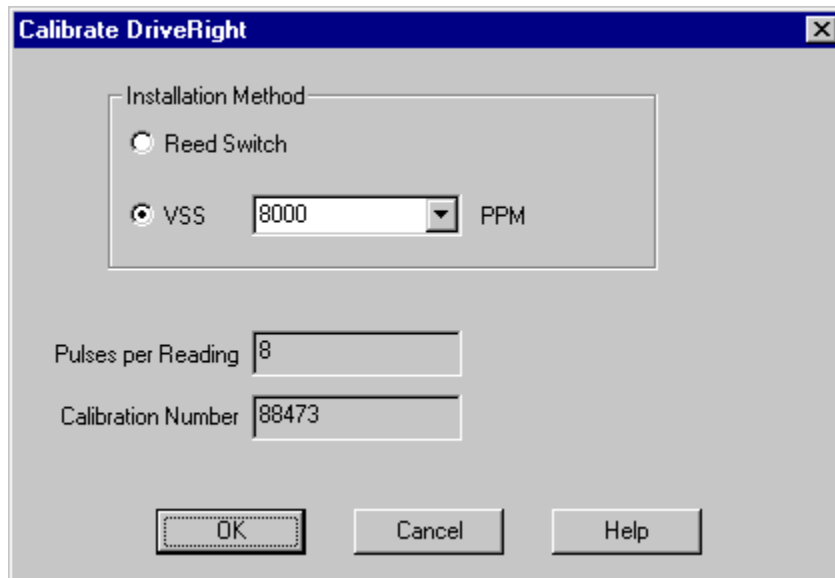
DriveRight Settings: Verify DriveRight Calibration

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.



4. 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.
5. 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.
6. 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.
7. 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](#)

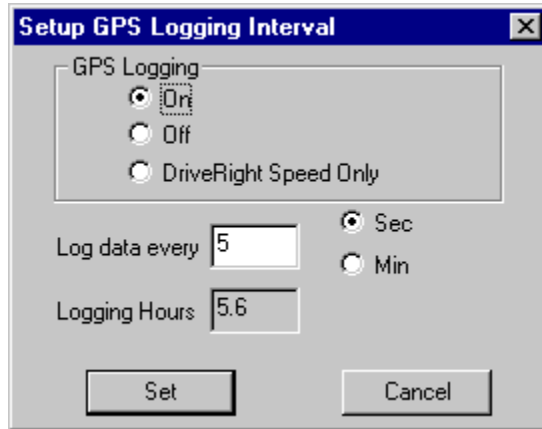
DriveRight Settings: Setup GPS

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](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

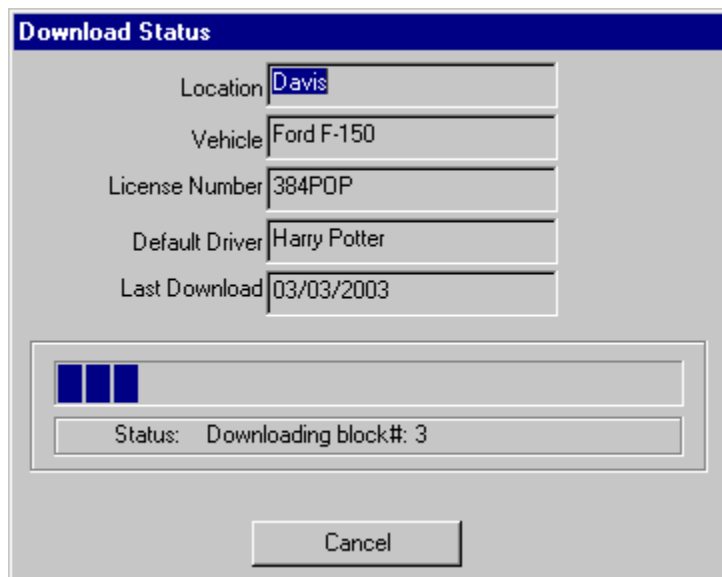
Download DriveRight

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

To download your DriveRight:

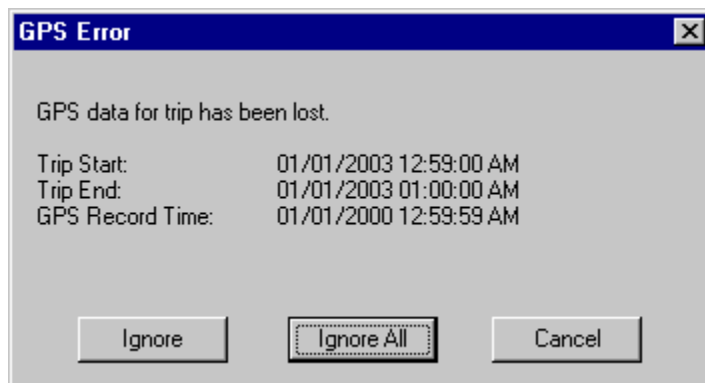
1. Connect your DriveRight console to your computer and make sure the DriveRight is "awake". Press the MODE key if there is nothing on the LCD display.
2. Select **Download DriveRight** in the **DriveRight** Menu. The following **Download Status** box is displayed:

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



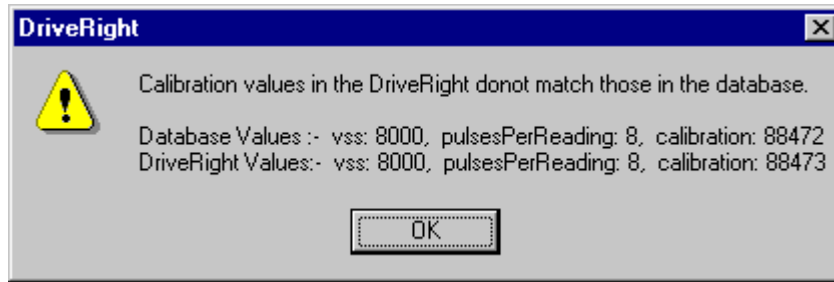
The screenshot shows a dialog box titled "Download Status". It contains several input fields with the following values: Location (Davis), Vehicle (Ford F-150), License Number (384POP), Default Driver (Harry Potter), and Last Download (03/03/2003). Below these fields is a progress bar with three blue segments. Under the progress bar, the status is displayed as "Status: Downloading block#: 3". At the bottom of the dialog is a "Cancel" button.

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:



The screenshot shows a dialog box titled "GPS Error". The message inside reads: "GPS data for trip has been lost." Below the message, the following trip details are listed: Trip Start: 01/01/2003 12:59:00 AM, Trip End: 01/01/2003 01:00:00 AM, and GPS Record Time: 01/01/2000 12:59:59 AM. At the bottom of the dialog are three buttons: "Ignore", "Ignore All" (which is highlighted with a dashed border), and "Cancel".

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](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

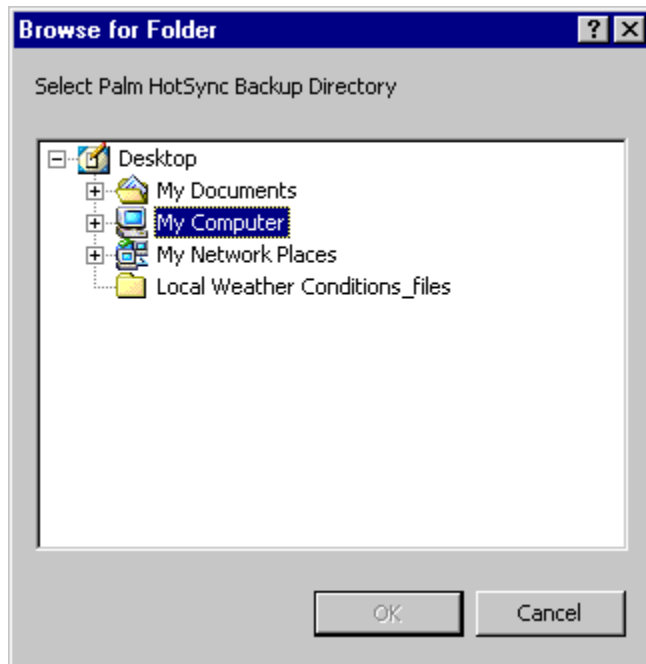
Download Palm

Versions of DriveRight FMS 3.0 and later offer a 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.

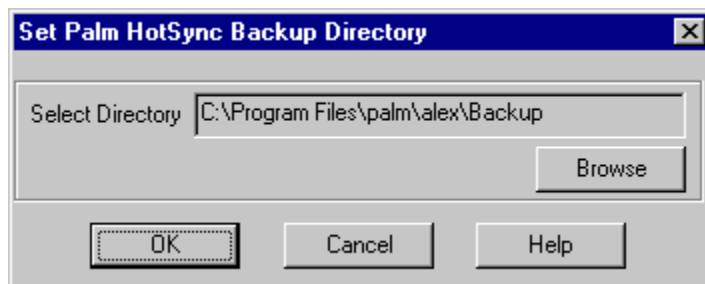
Note: To download a DriveRight console data into the software using Palm Download, the DriveRight should be present in the database. If you try to download a DriveRight which is not present in the database, you will get an error message.

To download your Palm:

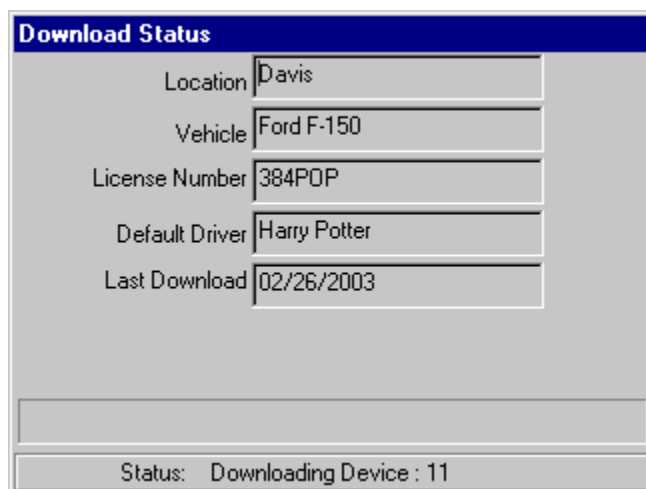
1. Select **Download Palm** in the **DriveRight** Menu.
2. The first time you download a Palm, the following dialog box is displayed. Select the directory which contains your Palm backup databases and click **OK**.



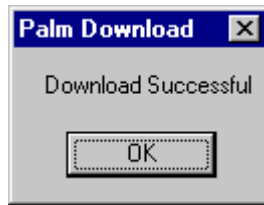
3. Each time after the first time, when you use the Download Palm command, the following dialog box appears showing the selected Palm backup directory.



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](#)

Mapping Quick Reference Menu

Mapping Quick Reference Menu

[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 MapPoint](#)

[Export: Accidents to MapPoint](#)

[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

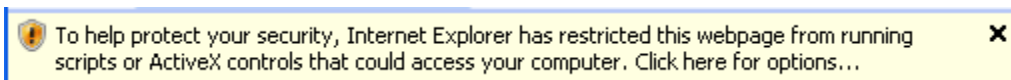
Click the **Map** button in the **Trips** browse window to create a map from a trip record.

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.

Depending on the mapping tool you have selected, the map is displayed in the DriveRight FMS program window, Google Earth™, or Google Maps™ in a web browser.

Note: If you are using Internet Explorer as your web browser and have selected Google Maps as your mapping tool, you may see the following message when Internet Explorer begins to create a Trip Map:



To allow Internet Explorer to finish creating the map, click on the message and then click "Allow Blocked Content" in the resulting pop-up message. When the **Security Warning** window displays, click "Yes" and Google Maps will generate the Trip Map.

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

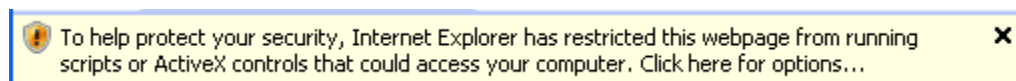
Click the **Map** button in the **Days** browse window to create a map for all trips taken on the same day.

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.
4. Highlight a day record, then click **Map** to generate the Day Mapping Report.

Depending on the mapping tool you have selected, the map is displayed in the DriveRight FMS program window, Google Earth™, or Google Maps™ in a web browser.

Note: If you are using Internet Explorer as your web browser and have selected Google Maps as your mapping tool, you may see the following message when Internet Explorer begins to create a Day Map:



To allow Internet Explorer to finish creating the map, click on the message and then click "Allow Blocked Content" in the resulting pop-up message. When the **Security Warning** window displays, click "Yes" and Google Maps will generate the Day Map.

See also:

[Viewing Day Maps](#)

[Map Navigation](#)

Back to [Mapping Overview](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

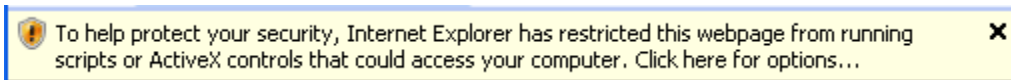
Creating an Accident Log Map

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.

Note: If you are using Internet Explorer as your web browser and have selected Google Maps as your mapping tool, you may see the following message when Internet Explorer begins to create an Accident Log Map:



To allow Internet Explorer to finish creating the map, click on the message and then click "Allow Blocked Content" in the resulting pop-up message. When the **Security Warning** window displays, click "Yes" and Google Maps will generate the Accident Log Map.

See also:

[Viewing Accident Log Maps](#)

Back to [Mapping Overview](#)

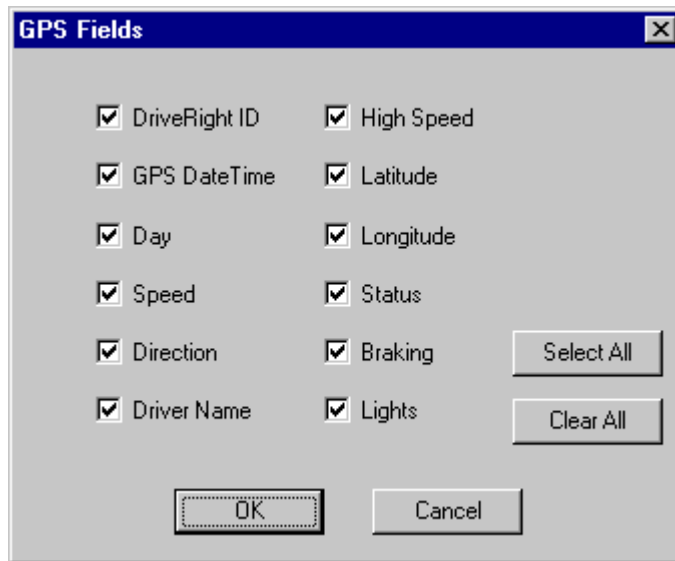
[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Export: GPS to MapPoint

Note: This feature is only enabled if you have chosen MapPoint as your mapping tool. This feature is not supported in Google Maps™ or Google Earth™.

To export GPS data:

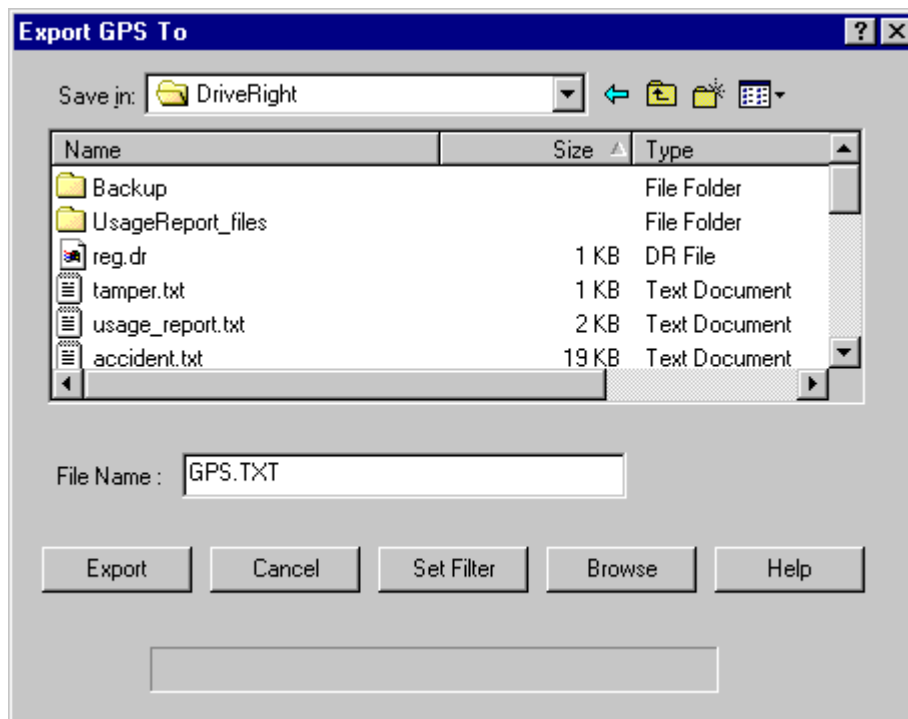
1. Go to **File > Export**.
2. Select **GPS to MapPoint** in the drop-down **Export** menu.
The **GPS Fields** dialog box displays.



3. Click **Select All** to check all fields. Click **Clear All** to clear all fields. Click in the box for each field to toggle the check on and off.

Note: Only the checked GPS fields will be exported. These key fields should always be selected: GPS DateTime, Speed, High Speed, Latitude and Longitude.

4. 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 **Set Filter** to narrow the selection of GPS data to be exported.
5. Click **Browse** to view the GPS data before you export it.
6. Click **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](#)

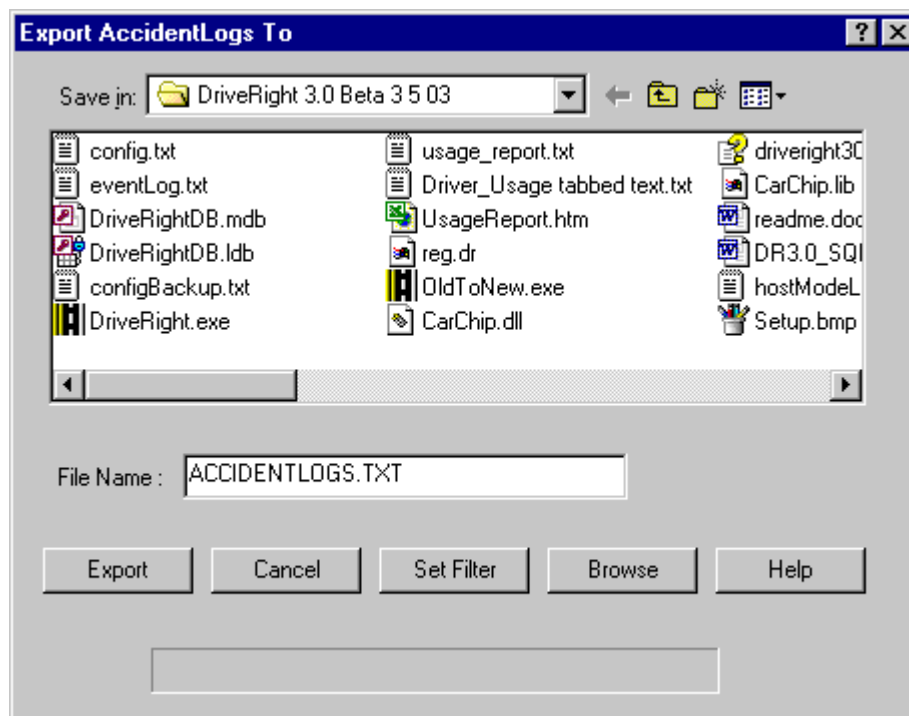
Export: Accidents to MapPoint

Note: This feature is only enabled if you have chosen MapPoint as your mapping tool. This feature is not supported in Google Maps™ or Google Earth™.

To export accident log data:

1. Go to **File > Export**.
2. Select **Accident to MapPoint**.

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** menu.
3. Using the **File** dialog box 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. Select **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 field or column to map" list, select time_T0. 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 'r;+' to zoom in and 'r;-r;' 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](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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** menu.
3. Using the **File** dialog box find select the GPS.TXT file and click **Open**.
4. "Tab" should be selected to separate the data. Click **Next**.
5. All exported fields appear in the next dialog box. Column headings are included and should be detected by the program. All the columns should have <Other Data> as their data type except Latitude and Longitude. Check to make sure the Latitude and Longitude were detected correctly. If they are not, correct them. Click **Finish**.
6. Select **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 field 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 **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 select **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](#)

Back to [File Menu](#) | [Export Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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](#)

Click this link for information on Trip Map features in MapPoint, Google Maps, and Google Earth.

[Map Navigation](#)

Click this link for explanations of navigating in map windows in MapPoint, Google Maps, and Google Earth.

[Viewing GPS Plot Information](#)

Click this link for an explanation of viewing GPS plot information in MapPoint.

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. Click on any topic for more details on using 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. Click on any link for more details on using Accident Log Maps.

[Accident Log Map Features](#)

[Map Navigation](#)[Viewing GPS Plot Information](#)

Back to [Mapping Quick Reference Menu](#) | [How to View Maps](#)

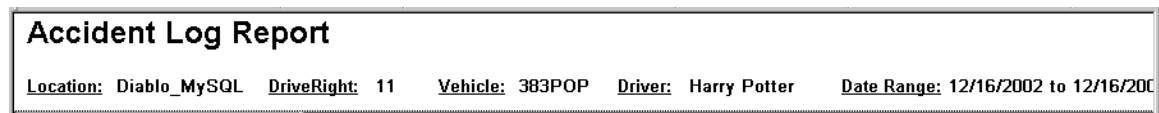
[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Accident Mapping**Accident Log Map Features**

If you are using MapPoint as your mapping tool, an Accident Log Map consists of the following key elements:

Title Bar

The title bar at the top of the map window shows the type of map, the company location, DriveRight ID, driver name, and date of the trip.

***Overview Map***

The overview map shows the general area of the map and is located on the left side of the window just below the title bar.

***Legend***

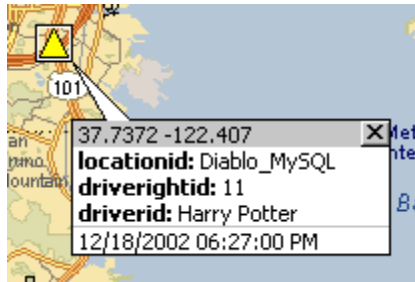
- A legend of map symbols is located just below the Overview Map.
- Each Accident Log pushpin represents an Accident Log record. Pushpins are indicated by yellow triangles on Accident Log Maps viewed with MapPoint, as shown below.



Map Window

The Accident Log Report map puts an accident pushpin on the location of each accident in the Accident Log Report.

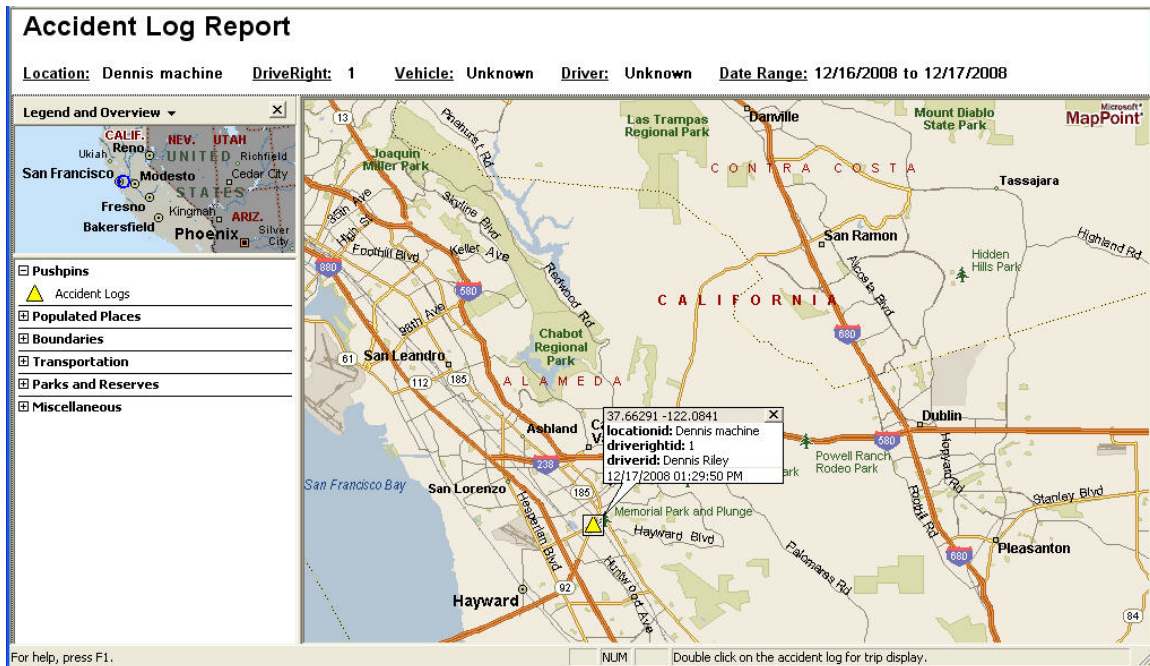
- To see a summary of the accident information, click an [accident log pushpin](#). In MapPoint, these pushpins are indicated by a yellow triangle, as shown in the Map Window legend.



- To see a [Trip Map](#) of the trip in which an accident occurred, double-click the accident pushpin. Refer to [Viewing Trip Maps](#) for information on viewing the Accident Trip Map.



Full Map View



If you are using Google Maps as your mapping tool, an Accident Log Map consists of the following key elements (click any heading to display more detail):

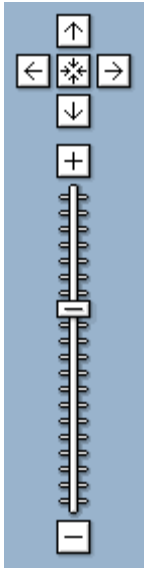
Views

In the upper-right corner of the window, you can click the Map, Satellite, or Terrain buttons to display different views, including aerial images and street-level imagery.



Navigation Controls

Use this tool to navigate left, right, up, or down, or to zoom in or out in the Google Map window. You can also click and drag anywhere on the map to move it in any direction, or use your keyboard's up, down, left, or right arrows to move north, south, east, or west, respectively.



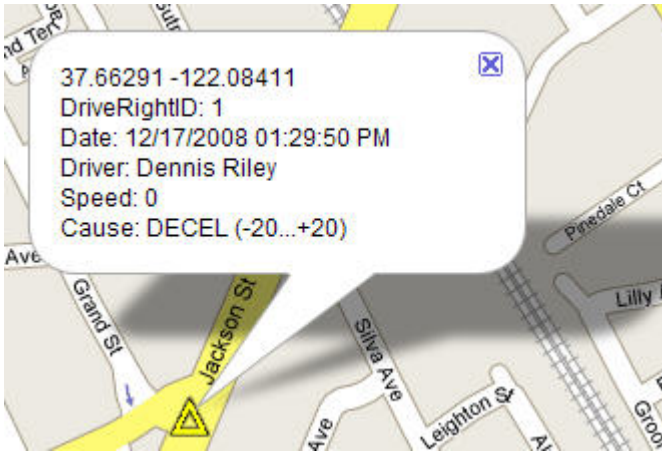
Legend

Each Accident Log pushpin represents an Accident Log record. Pushpins are indicated by yellow triangles on Accident Log Maps viewed with Google Maps, as shown below.



Info Window

This window displays additional information when you click on any accident pushpin.



For more detailed instructions on all of the controls and features of Google Maps, go to **Basics - The Google Maps User Guide** at:

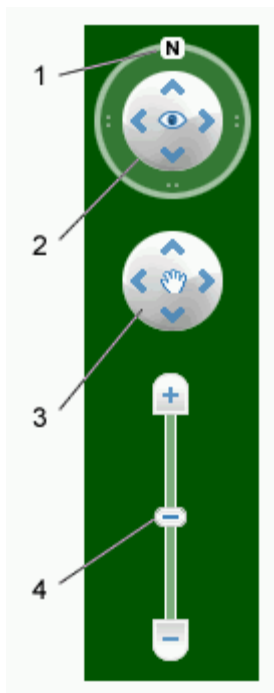
<http://maps.google.com/support/bin/answer.py?hl=en&answer=68259>.

If you are using Google Earth as your mapping tool, an Accident Log Map includes the following key elements (click any heading to display more detail):

Navigation Controls

Use this tool to navigate left, right, up, or down, or to zoom in or out in the Google Earth window. You can also click and drag anywhere on the 3D map to move it in any direction, or use your keyboard's up, down, left, or right arrows to move north, south, east, or west, respectively. Because the Google Earth map is a 3D image, when you "pan" in any direction, you are presented with an image that simulates that you are rotating the Earth on its axis.

A detailed explanation of how to use the "North-up" button, the Look and Move joysticks, and the Zoom slider are listed below the image.



1. Click the north-up button to reset the view so that north is at the top of the screen. Click and drag the ring to rotate your view.
2. Use the Look joystick to look around from a single vantage point, as if you were turning your head. Click an arrow to look in that direction or continue to press down on the mouse button to change your view. After clicking an arrow, move the mouse around on the joystick to change the direction of motion.
3. Use the Move joystick to move your position from one place to another. Click an arrow to look in that direction or continue to press down on the mouse button to change your view. After clicking an arrow, move the mouse around on the joystick to change the direction of motion.
4. Use the zoom slider to zoom in or out (+ to zoom in, - to zoom out) or click the icons at the end of the slider. As you move closer to the ground, Google Earth swoops (tilts) to change your viewing angle to be parallel to the Earth's surface. You can turn off this automatic tilt (Tools > Options > Navigation > Navigation controls; Mac: Google Earth > Preferences > Navigation > Navigation controls).

Hide/Show Sidebar

Click this control (at the top of the window) to conceal or display the side bar (Search, Places and Layers panels).



Legend

Each Accident Log pushpin represents an Accident Log record. Pushpins are indicated by yellow triangles on Accident Log Maps viewed with Google Earth, as shown below.



Info Window

This window displays additional information when you click on any accident pushpin.

For more detailed instructions on all of the controls and features of Google Earth, go to **The Google Earth User Guide** at:

<http://earth.google.com/intl/en/userguide/v4/#navcontrols>.

Back to [Mapping Quick Reference Menu](#) | [Mapping Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

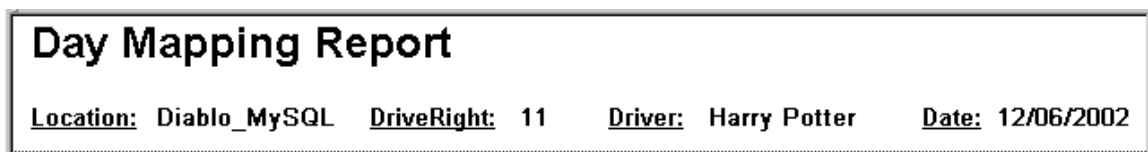
Day Mapping

Day Map Features

If you are using MapPoint as your mapping tool, a Day Map consists of the following key elements. Click any of these five headings for additional details about each element of MapPoint Day Maps.

Title Bar

The title bar at the top of the map window shows the type of map, the company location, DriveRight ID, driver name, and date of the trip.



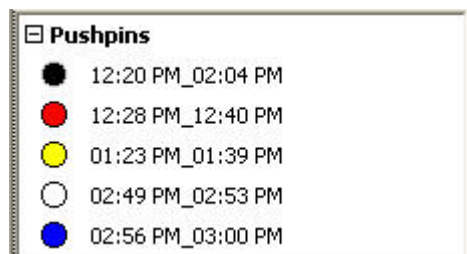
Overview Map

The overview map shows the general area of the map and is located on the left side of the window just below the title bar.



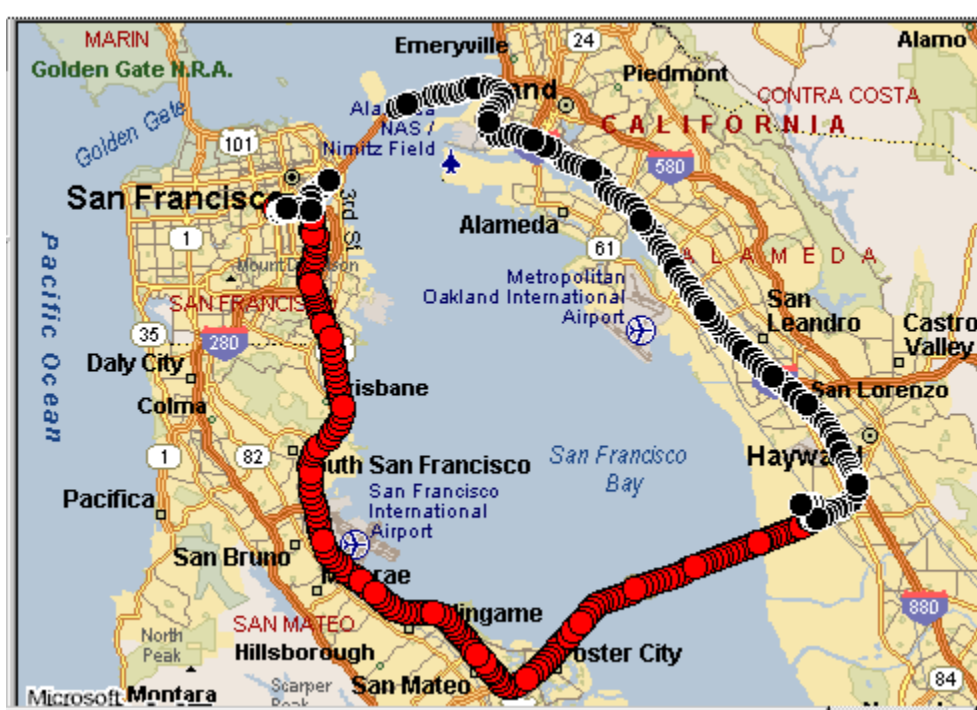
Legend

- A legend of map symbols is located just below the Overview Map.
- Each pushpin in the Day Map indicates a [GPS record](#). A different pushpin color identifies each trip taken on the selected day.
- You can create a single trip map for any trip in a Day Map by double-clicking a pushpin from that trip. See [Viewing Trip Maps](#) for more info on viewing a single trip map.
- Double-clicking on a pushpin in the mapped trip will return the map to the normal Day Map showing multiple trips.

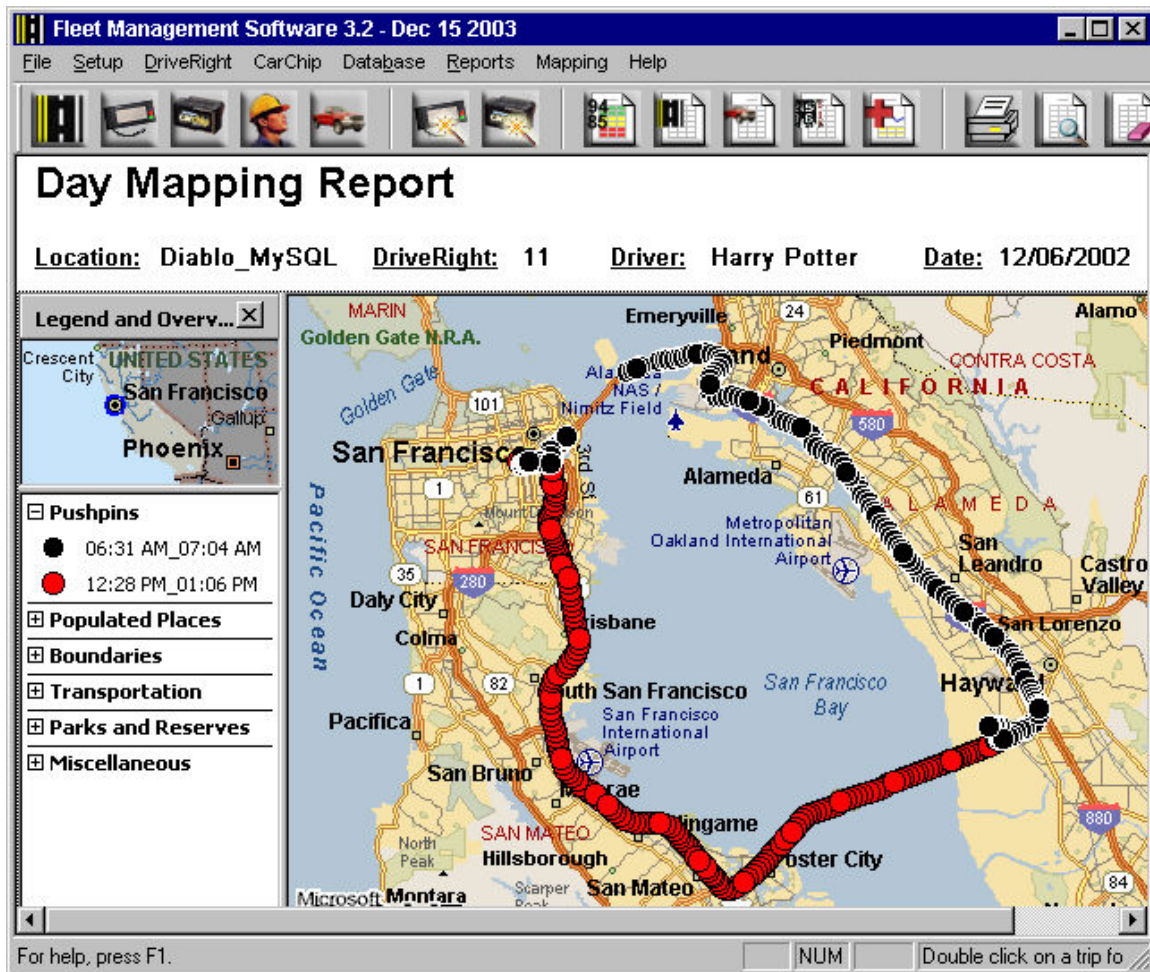


Map Window

The Day Map plots all of the trips taken by a vehicle on the selected day. A different color Day Map pushpin is used for each trip. From inside the map window you can [move](#) the area shown in the window, [zoom a selected area](#), [zoom in and out](#), and [view GPS data](#).



[Full Map View](#)



If you are using Google Maps as your mapping tool, a Day Map consists of the following key elements (click any heading to display more detail):

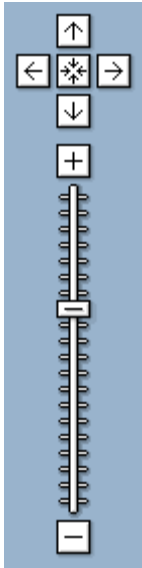
Views

In the upper-right corner of the window, you can click the Map, Satellite, or Terrain buttons to display different views, including aerial images and street-level imagery.



Navigation Controls

Use this tool to navigate left, right, up, or down, or to zoom in or out in the Google Map window. You can also click and drag anywhere on the map to move it in any direction, or use your keyboard's up, down, left, or right arrows to move north, south, east, or west, respectively.



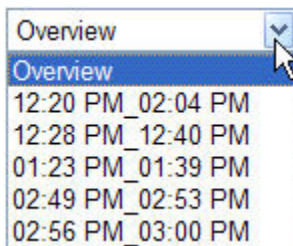
Legend

In Google Maps, Day Trips can be viewed in two ways:

1. as an **Overview**, showing all of the trips for one day in a single view
2. as individual trips, showing each trip by itself

Viewing Trips in Overview Mode

To see all of the trips for one day in Overview mode, click the pulldown menu in the upper-left corner and select **Overview**.

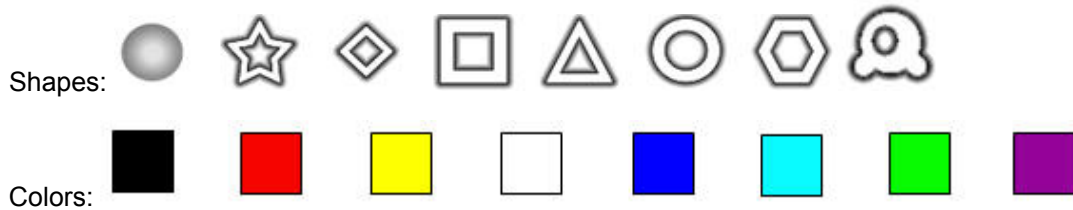


When viewing all trips in Overview mode, the colored symbols at the bottom left corner of the map indicate which symbols on the Overview correspond to individual trips for that day.

- 12:20 PM_02:04 PM
- 12:28 PM_12:40 PM
- 01:23 PM_01:39 PM
- 02:49 PM_02:53 PM
- 02:56 PM_03:00 PM

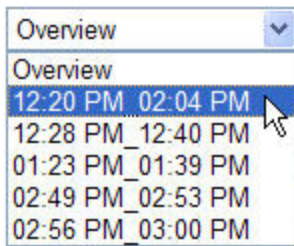
DriveRight FMS supports up to 64 trips (represented on the map by eight shapes and eight colors) on a single Day Map. The eight shapes and eight colors are used to represent multiple

trips, and are shown below. **The shapes and colors are used in the order shown.** This means that Trip 1 is shown with a black circle, Trip 2 with a red circle, and Trip 8 with a purple circle. Trip 9 will be shown with a black star, trip 10 with a red star, and so on, to a maximum of 64 trips.

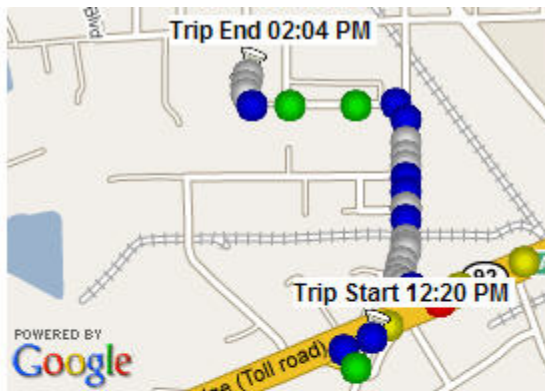


Viewing Individual Trips

To see a single trip for the selected day, click the pulldown menu in the upper-left corner and select any one of the indicated time periods.

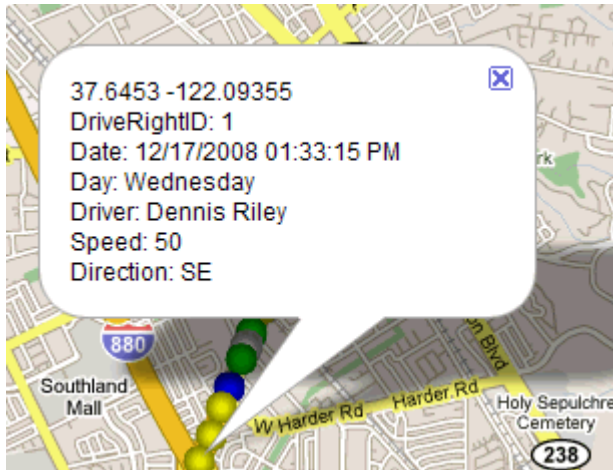


When viewing a single trip on the Day Map, the colored circles at the bottom left corner of the map now indicate the vehicle's speed range at each GPS plot point during the selected trip shown on the map. Also, Trip Start and Trip End pushpins are shown, which indicate the start and end of the selected trip.



Info Window

This window displays additional information when you click on any trip marker.



For more detailed instructions on all of the controls and features of Google Maps, go to **Basics - The Google Maps User Guide** at:

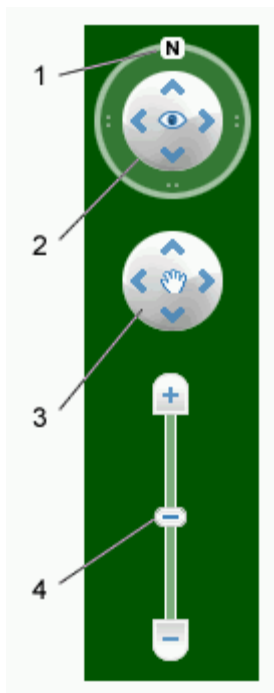
<http://maps.google.com/support/bin/answer.py?hl=en&answer=68259>.

If you are using Google Earth as your mapping tool, a Day Map includes the following key elements (click any heading to display more detail):

Navigation Controls

Use this tool to navigate left, right, up, or down, or to zoom in or out in the Google Earth window. You can also click and drag anywhere on the 3D map to move it in any direction, or use your keyboard's up, down, left, or right arrows to move north, south, east, or west, respectively. Because the Google Earth map is a 3D image, when you "pan" in any direction, you are presented with an image that simulates that you are rotating on the Earth's axis.

A detailed explanation of how to use the "North-up" button, the Look and Move joysticks, and the Zoom slider are listed below the image.



1. Click the north-up button to reset the view so that north is at the top of the screen. Click and drag the ring to rotate your view.
2. Use the Look joystick to look around from a single vantage point, as if you were turning your head. Click an arrow to look in that direction or continue to press down on the mouse button to change your view. After clicking an arrow, move the mouse around on the joystick to change the direction of motion.
3. Use the Move joystick to move your position from one place to another. Click an arrow to look in that direction or continue to press down on the mouse button to change your view. After clicking an arrow, move the mouse around on the joystick to change the direction of motion.
4. Use the zoom slider to zoom in or out (+ to zoom in, - to zoom out) or click the icons at the end of the slider. As you move closer to the ground, Google Earth swoops (tilts) to change your viewing angle to be parallel to the Earth's surface. You can turn off this automatic tilt (Tools > Options > Navigation > Navigation controls; Mac: Google Earth > Preferences > Navigation > Navigation controls).

Hide/Show Sidebar

Click this control (at the top of the window) to conceal or display the side bar (Search, Places and Layers panels).



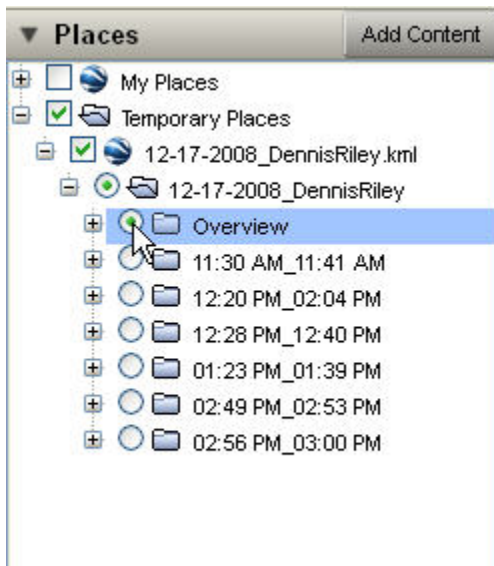
Legend

In Google Earth, Day Maps can be viewed in two ways:

1. as an Overview, showing all of the trips for one day in a single view
2. as individual trips, showing each trip by itself

Viewing Trips in Overview Mode

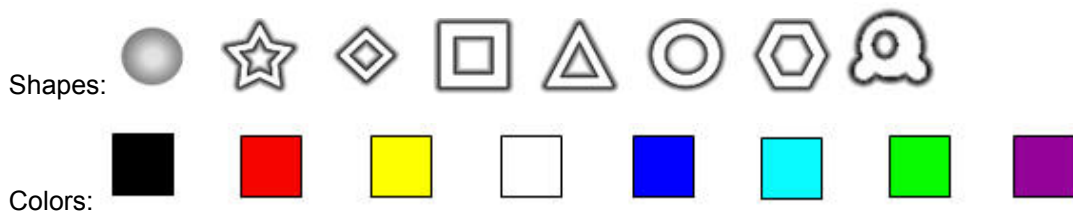
To see all of the trips for one day in **Overview** mode, locate the **Places** section of the legend on the left side of the Google Earth Day Map. Click the **Overview** button in the Temporary Places folder for your selected day and a Day Map will display showing all of the trips for the selected day.



When viewing all trips in **Overview** mode, the colored symbols at the bottom left corner of the map indicate which symbols on the Day Map correspond to individual trips for that day.

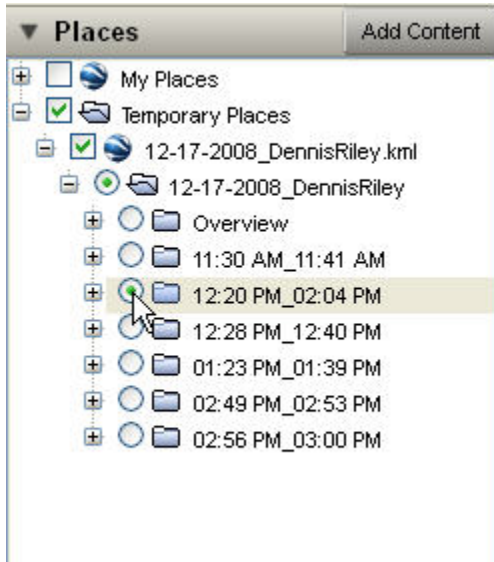


DriveRight FMS supports up to 64 trips (represented on the map by eight shapes and eight colors) on a single Day Map. The eight shapes and eight colors are used to represent multiple trips, and are shown below. **The shapes and colors are used in the order shown.** This means that Trip 1 is shown with a black circle, Trip 2 with a red circle, and Trip 8 with a purple circle. Trip 9 will be shown with a black star, trip 10 with a red star, and so on, to a maximum of 64 trips.

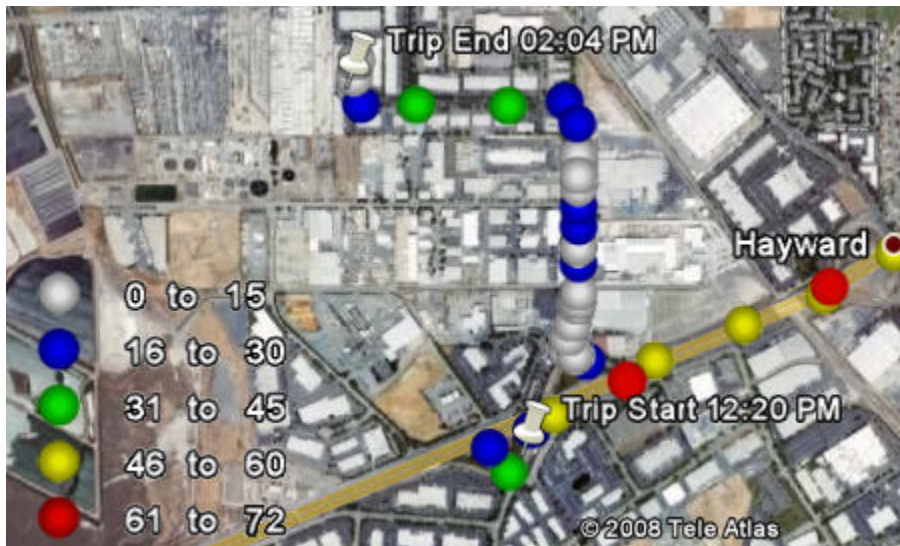


Viewing Individual Trips

To see a single trip for the selected day, click any of the "time-period" buttons below the Overview button, and a new map is displayed showing the selected trip.

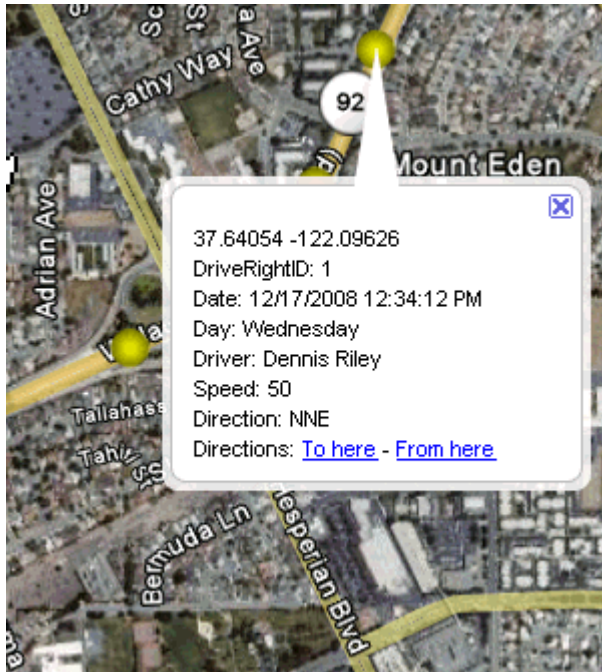


When viewing a single trip on the Day Map, the colored circles at the bottom left corner of the map now indicate the vehicle's speed ranges during the selected trip shown on the map. Also, pushpins are displayed showing the Trip Start and Trip End points, as shown below.



[Info Window](#)

This window displays additional information when you click on any trip marker.



For more detailed instructions on all of the controls and features of Google Earth, go to **The Google Earth User Guide** at:

<http://earth.google.com/intl/en/userguide/v4/#navcontrols>.

Back to [Mapping Quick Reference Menu](#) | [Mapping Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Trip Mapping

Trip Map Features

If you are using MapPoint as your mapping tool, a Trip Map consists of the following key elements: (Click any heading to display more detail.)

Title Bar

The title bar at the top of the map window shows the type of map, the company location, DriveRight ID, driver name, and date of the trip.

Trip Mapping Report

Location: Diablo_MySQL DriveRight: 11 Driver: Harry Potter Date: 11/22/2002

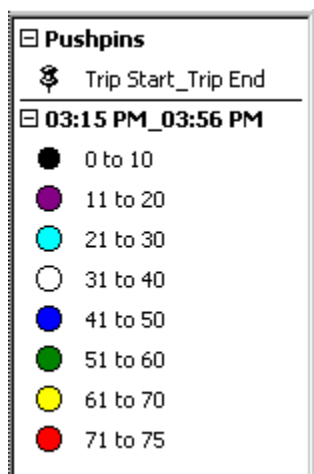
Overview Map

The overview map shows the general area of the map and is located on the left side of the window just below the title bar.



Legend

- A legend of map symbols is located just below the Overview Map.
- A realistic looking pushpin indicates the starting and stopping points in a Trip Map.
- Round pushpins indicate the GPS plot points in a trip.
- When viewing a trip map, the round pushpin colors indicate vehicle speed.
- Use the [Set Speed Ranges](#) command in the Mapping Menu to set the number of speed ranges and the speeds included in each range.



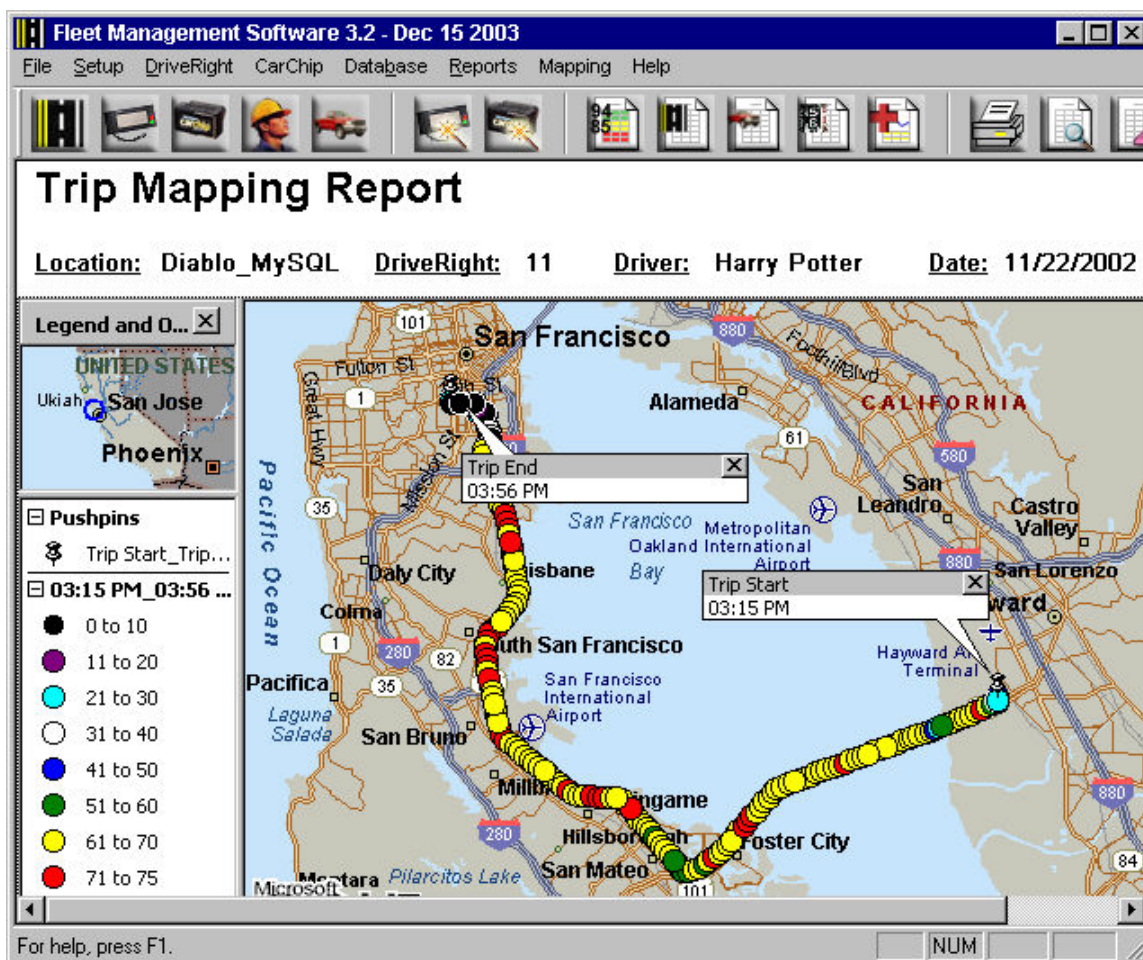
Map Window

The Trip map window plots the GPS record to show where the vehicle went, when the trip started and stopped, and indicates vehicle speed over the course of the trip. From inside the map

window you can navigate around the map's location, zoom in and out, and view data for individual GPS records.



[Full Map View](#)



If you are using Google Maps as your mapping tool, a Trip Map consists of the following key elements (click any heading to display more detail):

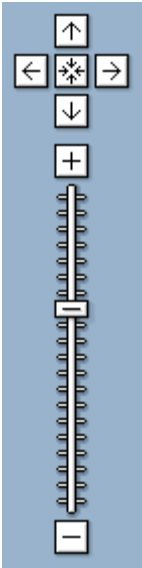
Views

In the upper-right corner of the window, you can click the Map, Satellite, or Terrain buttons to display different views, including aerial images and street-level imagery.



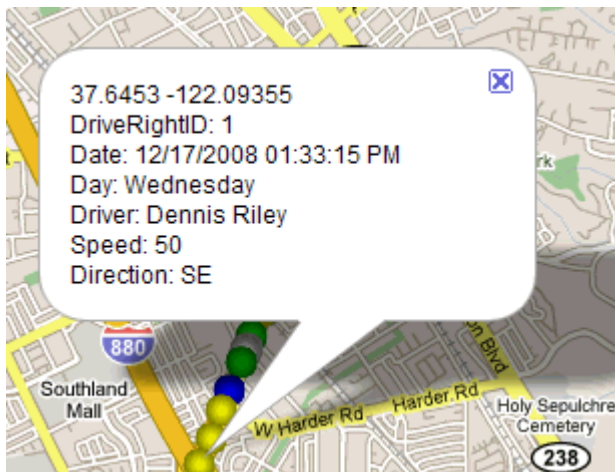
Navigation Controls

Use this tool to navigate left, right, up, or down, or to zoom in or out in the Google Map window. You can also click and drag anywhere on the map to move it in any direction, or use your keyboard's up, down, left, or right arrows to move north, south, east, or west, respectively.



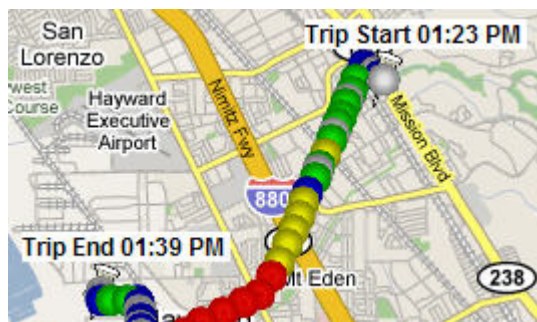
Info Window

This window displays additional information when you click on any trip marker.



Legend

- In Google Maps a legend of map symbols is located just below the Overview Map.
- Realistic looking pushpins indicate the starting and stopping points on a Trip Map, and each one is labeled with the start and stop time.



- Round pushpins indicate the GPS plot points in a trip.
- The different colored round pushpins indicate different vehicle speeds at different GPS plot points, as shown in the legend of map symbols (below).



For more detailed instructions on all of the controls and features of Google Maps, go to **Basics - The Google Maps User Guide** at:

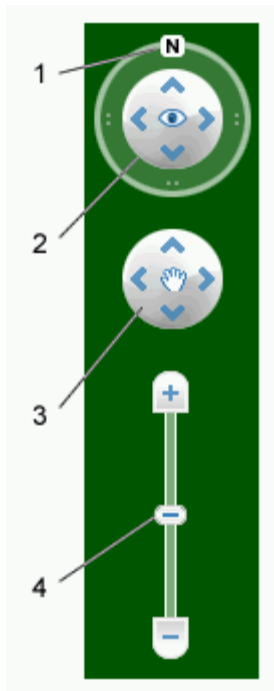
<http://maps.google.com/support/bin/answer.py?hl=en&answer=68259>.

If you are using Google Earth as your mapping tool, a Trip Map includes the following key elements (click any heading to display more detail):

Navigation Controls

Use this tool to navigate left, right, up, or down, or to zoom in or out in the Google Earth window. You can also click and drag anywhere on the 3D map to move it in any direction, or use your keyboard's up, down, left, or right arrows to move north, south, east, or west, respectively. Because the Google Earth map is a 3D image, when you "pan" in any direction, you are presented with an image that simulates that you are rotating on the Earth's axis.

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3. Use the Move joystick to move your position from one place to another. Click an arrow to look in that direction or continue to press down on the mouse button to change your view. After clicking an arrow, move the mouse around on the joystick to change the direction of motion.
4. Use the zoom slider to zoom in or out (+ to zoom in, - to zoom out) or click the icons at the end of the slider. As you move closer to the ground, Google Earth swoops (tilts) to change your viewing angle to be parallel to the Earth's surface. You can turn off this automatic tilt (Tools > Options > Navigation > Navigation controls; Mac: Google Earth > Preferences > Navigation > Navigation controls).

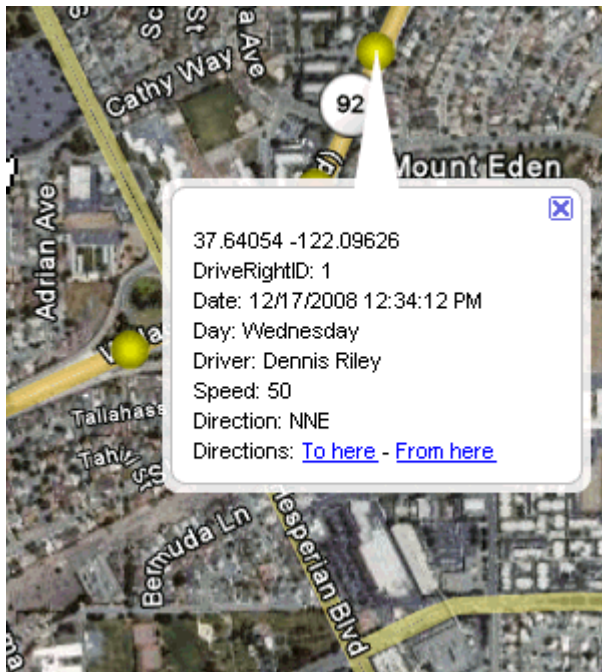
Hide/Show Sidebar

Click this control (at the top of the window) to conceal or display the side bar (Search, Places and Layers panels).



Info Window

This window displays additional information when you click on any trip marker.



Legend

- In Google Earth a legend of map symbols is located just below the Overview Map.
- Realistic looking pushpins indicate the starting and stopping points on a Trip Map, and each one is labeled with the start and stop time.



- Round pushpins indicate the GPS plot points in a trip.
- The different colored round pushpins indicate different vehicle speeds at different GPS plot points, as shown in the legend of map symbols (below).



For more detailed instructions on all of the controls and features of Google Earth, go to **The Google Earth User Guide** at:

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Back to [Mapping Quick Reference Menu](#) | [Mapping Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Mapping Menu

Note: DriveRight FMS Mapping requires Microsoft MapPoint, Google Earth™, or Google Maps™. To use Google Earth you must have the Google Earth application installed on your computer (go to <http://earth.google.com/> for a free download). To use Google Maps you must have any of the following three web browsers installed on your computer:

- Internet Explorer
- Firefox
- Safari

The following commands are available in the **Mapping** Menu:

[Open Map](#)

[Save Map](#)

[E-Mail Map](#)

[Select Mapping Tool](#)

[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:

- For DriveRight 600:
 - DriveRight 600 (# 8156)
 - DriveRight GPS Module (# 8157)
 - For DriveRight 600E:
 - DriveRight 600e (# 8126)
 - DriveRight GPS/Wireless Interface Module (# 8127)
 - GPS Module (# 8128)
 - For CarChip Fleet Pro:
 - CarChip Fleet Pro (# 8246)
 - CarChip GPS/Wireless Interface Module (# 8251)
 - GPS Module (# 8128)
 - MapPoint Mapping:
 - Microsoft MapPoint 2002, 2004, or 2006
- Note:** Davis Instruments recommends that you do not use MapPoint version 2009. This version is not compatible with FMS version 3.9.2.
- In addition to the system requirements for DriveRight FMS 3.2 or later, 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.
 - Google Mapping:
 - Google Earth™ and a web browser (Internet Explorer, Firefox, or Safari)
 - an internet connection

Back to [Mapping Quick Reference Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Viewing GPS Plot Information

Each push-pin symbol used to plot a trip represents a DriveRight GPS record. You can display the GPS data for one of the plot points by clicking the push-pin. An information box opens for the symbol displaying the GPS coordinates, DriveRight ID, GPS date and time, day of the week, and driver ID.

To modify the MapPoint GPS data display:

Note: Your GPS data can only be modified if you have chosen MapPoint as your mapping tool. If you have chosen Google Maps™ or Google Earth™ as your mapping tool, you cannot change the displayed GPS data.

1. Place the cursor inside the plot symbol legend window.
2. Select the Properties right-click mouse command.
3. Click on the Balloon tab at the top right of Properties dialog box. All the available GPS data parameters are listed in the dialog box.
4. Check a parameter to include it in the displayed plot information.
5. Removing a check will remove that parameter from the summary.

Back to [Mapping Quick Reference Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Wireless Quick Reference Menu

Wireless Quick Reference Menu

The Wireless Menu lets you configure the wireless devices in your Wireless Download System, perform wireless scans and downloads, and upgrade wireless device firmware. The following quick reference menu helps you get started using the Wireless Download System.

[How to Add a Base Station](#)

[How to Add a Wireless On-Board Module](#)

[How to Select an Operating Region](#)

[How to Scan for Wireless On-Board Modules](#)

[How to Set Up an Automatic Wireless Download](#)

[How to Start a Manual Wireless Download](#)

[How to Upgrade Firmware](#)

Back to [FMS Quick Reference Menu](#) | [Wireless Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

How to Add a Base Station

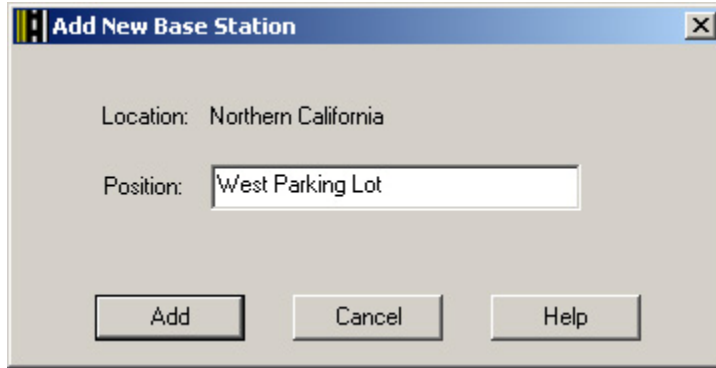
The **Add New Base Station** dialog box configures the Base Station to wirelessly communicate with Wireless On-Board Modules and allows you to assign a position to it that makes it easily identifiable throughout FMS.

To add a new Base Station:

1. Connect your Base Station to the computer's USB port.
2. Select **Add New Base Station** from the **Wireless** Menu. If this is the first time a Base Station or Wireless On-Board Module has been added to FMS, the **Select Operating Region** dialog box displays.



3. Select among the three choices displayed: **North America**, **Europe**, or **Other**. The operating region determines the power level of the wireless devices. Select **Europe** if the power levels of the wireless devices must not exceed CE certification requirements of less than 10 dBm. Select **North America** if the power levels of the wireless devices must not exceed FCC or IC certification requirements of less than 30 dBm. Select **Other** if the operating region is not North America or Europe.
4. Click **OK** to save the operating region information or click **Cancel** to exit without saving. The **Add New Base Station** dialog box displays.



The dialog box displays the location and the **Position** text field. If the Base Station belongs to a different location, select the correct location from the [Current Location](#) dialog box before adding the Base Station.

5. Enter a position description in the **Position** text box. The maximum number of characters for the **Position** text box is 32.
6. Click **Add** to add the new Base Station or **Cancel** to exit the dialog box without saving the new Base Station.

If you clicked **Add**, a dialog box is displayed to confirm that the Base Station has been added to FMS.



7. Click **OK** to exit the dialog box.

Back to [FMS Quick Reference Menu](#) | [Wireless Quick Reference Menu](#)

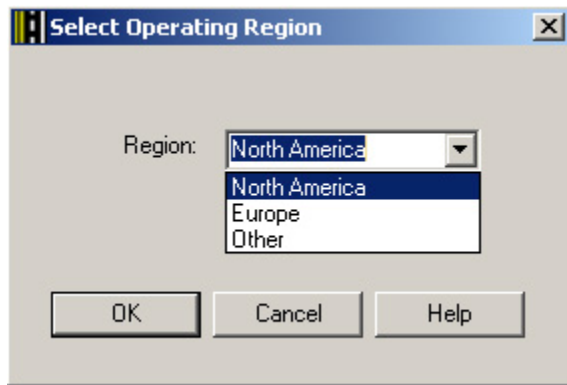
[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

How to Add a Wireless On-Board Module

To add a new Wireless On-Board Module:

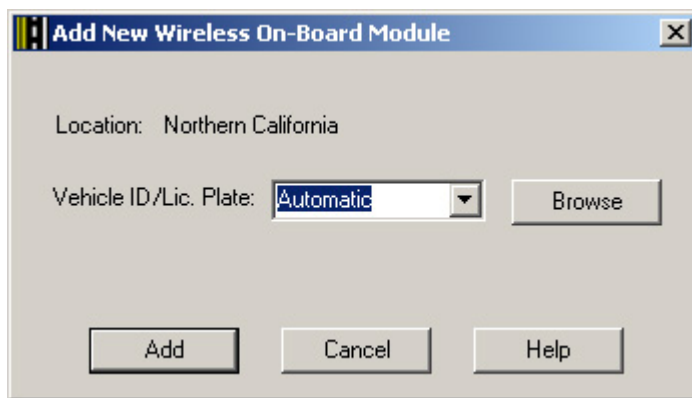
1. Use the Configuration Cable to connect the Wireless On-Board Module to your computer.
2. Select **Add New Wireless On-Board Module** from the **Wireless** Menu.

If this is the first time a Base Station or Wireless On-Board Module has been added to FMS, the **Select Operating Region** dialog box displays.



3. Select among the three choices displayed: **North America**, **Europe**, or **Other**. The operating region determines the power level of the wireless devices. Select **Europe** if the power levels of the wireless devices must not exceed CE certification requirements of less than 10 dBm. Select **North America** if the power levels of the wireless devices must not exceed FCC or IC certification requirements of less than 30 dBm. Select **Other** if the operating region is not North America or Europe.

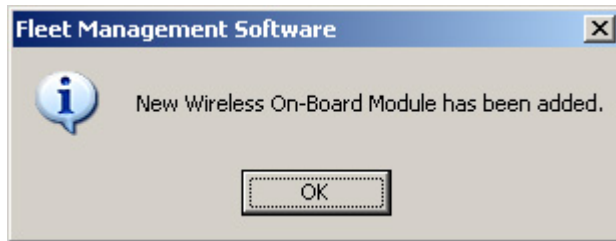
Once an operating region has been selected, the **Add New Wireless On-Board Module** dialog box displays.



The dialog box displays the location the Wireless On-Board Module belongs to and the **Vehicle ID/Lic. Plate** drop-down list box.

4. Select a Vehicle ID or license plate number from the **Vehicle ID/Lic Plate** drop-down list box, or select **Automatic**. Selecting a Vehicle ID or License plate from the drop down list assigns the Wireless On-Board Module to that vehicle. Click **Browse** to display the [Vehicles](#) database table. Review the full list of available vehicles to better determine the vehicle that gets assigned to the Wireless On-Board Module. Select **Automatic** if you do not want to select a vehicle at this time. The next time either [Scan Wireless On-Board Modules](#) or [Start Manual Wireless Download](#) is selected, or an [Automatic Wireless Download](#) has occurred, the correct Vehicle ID will be assigned to the Wireless On-Board Module based on the vehicle information stored on the DriveRight device.
5. Click **Add** to add the new Wireless On-Board Module or **Cancel** to exit the dialog box without saving the new Wireless On-Board Module.

If you clicked **Add**, the **New Wireless On-Board Module** dialog box displays, confirming that the Wireless On-Board Module has been added to FMS and is configured for use with your wireless fleet.



6. Click **OK** to exit the dialog box.

Once the Wireless On-Board Module has been added to the FMS database, it can be installed in its assigned vehicle or any vehicle in your fleet if you selected **Automatic** in the **Vehicle ID/Lic Plate** drop-down list box. See the **DriveRight GPS/Wireless System Installation Manual** for more information on its installation and proper usage.

Note: The Wireless On-Board Module should only be installed to its assigned vehicle unless **Automatic** is selected when adding the module.

Back to [FMS Quick Reference Menu](#) | [Wireless Quick Reference Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

How to Select an Operating Region

The **Select Operating Region** dialog box lets you select an operating region to the wireless device(s). Selecting a region adjusts the operating legal power of the wireless device(s).

1. Select **Select Operating Region** from the **Wireless** Menu. The **Select Operating Region** dialog box displays.

The **Select Operating Region** dialog box displays automatically the first time you select [Add New Base Station](#), [Add New Wireless On-Board Module](#), or [Upgrade Firmware](#) from the **Wireless** Menu. The same operating region selection applies to all wireless devices added to the database.



2. Select among the three choices displayed: **North America**, **Europe**, or **Other**. The operating region determines the power level of the wireless devices. Select **Europe** if the

power levels of the wireless devices must not exceed CE certification requirements of less than 10 dBm. Select **North America** if the power levels of the wireless devices must not exceed FCC or IC certification requirements of less than 30 dBm. Select **Other** if the operating region is not North America or Europe.

3. Click **OK** to save the operating region information or click **Cancel** to exit without saving.

Note: Changing the operating region at any time only affects the settings of the subsequently added wireless devices, not the ones that have been previously added to the system. To re-configure the setting for previously added devices, remove the wireless device(s) from the [Wireless Devices](#) database table in the **Database** menu, reconnect the device(s), change the operating region for the device(s), then add the wireless device(s) back into the database.

Back to [FMS Quick Reference Menu](#) | [Wireless Quick Reference Menu](#)

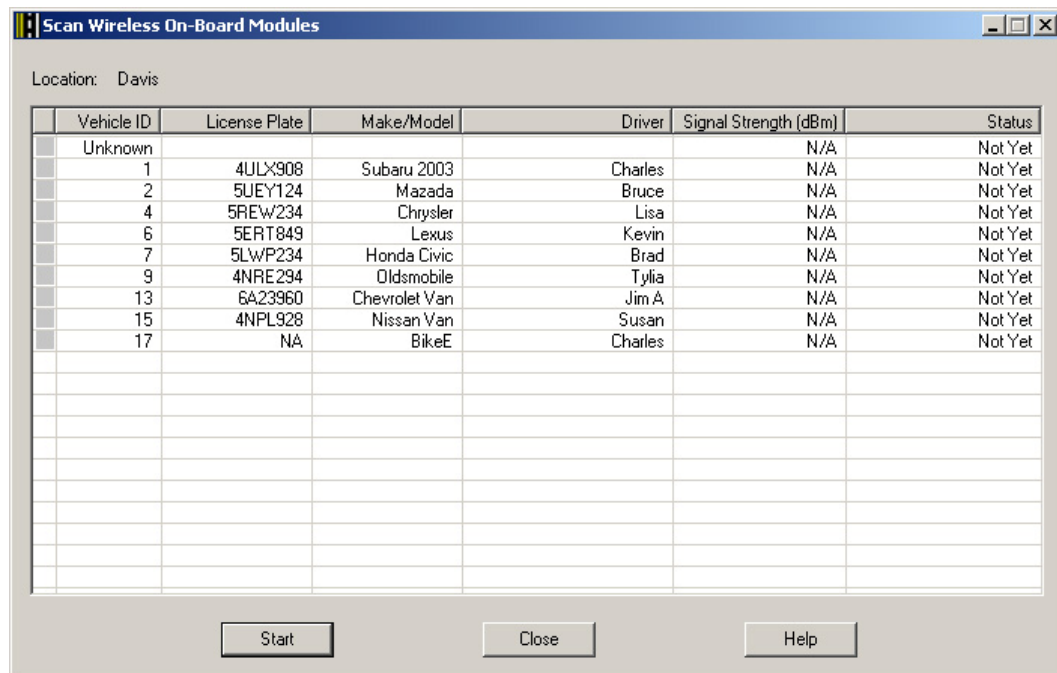
[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

How to Scan for Wireless On-Board Modules

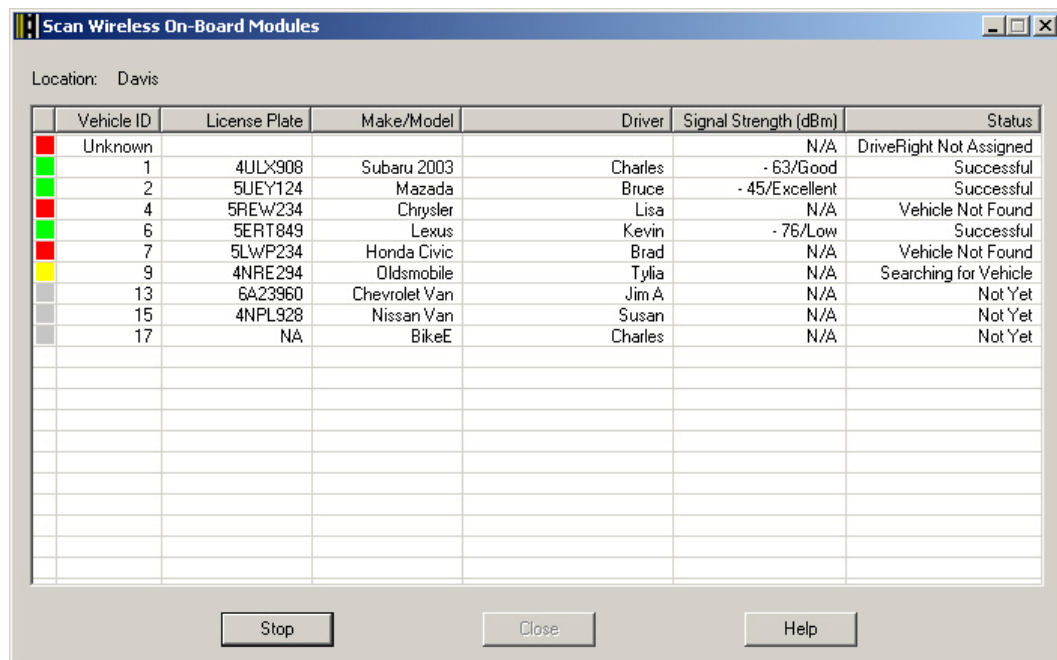
The **Scan Wireless On-Board Modules** dialog box uses the Base Station(s) to scan all of the Wireless On-Board Modules in the current location and displays the wireless communication status of each Wireless On-Board Module.

Note: At the top of each hour, the Wireless On-Board Module is turned off by the DriveRight or CarChip device for up to five minutes. This is done to allow the DriveRight or CarChip to turn on the GPS module to refresh the satellite position periodically. This occurs even without a GPS module being physically connected to your DriveRight or CarChip device. FMS will not be able to communicate with the Wireless On-Board Module(s) during this time.

1. Select **Scan Wireless On-Board Modules** from the **Wireless** Menu. The **Scan Wireless On-Board Modules** displays a list of all the Wireless On-Board Modules in your database associated with the currently selected location.



2. Click **Start** to scan all of the Wireless On-Board Modules. As the Base Station scans for the Wireless On-Board Modules, the status of each of the modules displays under the Status column.



The color box provides a visual representation of the status for each of the Wireless On-Board Modules in the database. The color is updated throughout the scan process. The **Status** column on the right hand side of the dialog box also documents the status for each module. The possible statuses are:

- **Not Yet** - The Base Station has not yet scanned for the Wireless On-Board Module.
 - **Searching for Vehicle** - The Base Station is currently searching for the Wireless On-Board module.
 - **Successful** - The Base Station has successfully found and communicated with Wireless On-Board Module.
 - **Failed** - The Base Station has not successfully communicated with or found errors in communicating with the Wireless On-Board Module. The scan will continue to search for the "Failed" Wireless On-Board Modules until the maximum of 10 retries has been reached. The following is a status list that corresponds to the red color box:
 - **Vehicle ID Mismatch** - The Wireless On-Board Module is not installed in the assigned vehicle. To correct this problem, select the Wireless On-Board Module's record in the [Wireless Devices](#) database table and click **Edit**. The **Edit Wireless On-Board Module** dialog box displays information about the On-Board Module. Change the Vehicle ID field of the Wireless On-Board Module to **Automatic** to allow FMS to find the Vehicle's ID automatically. You can also install the Wireless On-Board Module into the assigned vehicle.
 - **Device Not Assigned** - The DriveRight has not been assigned to a vehicle, the CarChip has not been assigned to a vehicle or a driver, or the DriveRight or CarChip has not been added to the FMS Database. [Add the DriveRight](#) or [CarChip](#) and assign it to the [corresponding vehicle](#) or [driver](#).
 - **Device Not Available** - FMS is able to communicate with the Wireless On-Board module, but is not able to get a response from the device (DriveRight or CarChip) which is connected to the Wireless On-Board Module. Try to restore power to the device or reconnect the device to fix the problem.
 - **Vehicle Not Found** - The Vehicle and Wireless On-Board Module are not within range of the Base Station. This status also occurs when there is an error communicating with the DriveRight or CarChip device. See [Wireless Device Communication Problems](#) for more information.
3. Click **Stop** to abort the scan before it is completed or click **Close** to close the dialog box once the scan has completed. Please note that if you stop scanning before it completes the scan, the last vehicle it scans automatically contains a failed status.

Note: Since it is not required to select a vehicle when adding a new Wireless On-Board Module, Unknown is displayed under the Vehicle ID column to indicate that a vehicle has not been assigned to a Wireless On-Board Module.

Back to [FMS Quick Reference Menu](#) | [Wireless Quick Reference Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

How to Set Up an Automatic Wireless Download

The **Setup Automatic Wireless Download** dialog box lets you select when to automatically download some or all vehicles that are wirelessly connected to FMS.

Note: FMS has to be running for the Automatic Wireless Download to occur.

1. Select **Setup Automatic Wireless Download** from the **Wireless** Menu. The **Setup Automatic Wireless Download** dialog box lets you select the vehicles you want to automatically download daily.

By default, a vehicle associated with a newly added Wireless On-Board Module is automatically placed in the **Vehicles in Download Queue** list. This also applies to "Unknown" vehicles.

Location: Davis

Available Vehicles:

VehicleID	License Plate	Driver
Unknown		
9	4NRE294	Tylia
17	NA	Charles

Vehicles in Download Queue:

VehicleID	License Plate	Driver
7	5LWP234	Brad
1	4ULX908	Charles
2	5UEY124	Bruce
4	5REW234	Lisa
6	5ERT849	Kevin
13	6A23960	Jim A
15	4NPL928	Susan

Start Time: 6:00:00 AM

Duration: 4 Hours

☒ Include Weekend

OK Cancel Help

The **Available Vehicles** list shows all available vehicles for the [current location](#). The **Vehicles in the Download Queue** list shows the vehicles selected for automatic wireless download.

2. Click **>>**, **All>>**, **<<**, or **All<<** to move the vehicles between these two lists.
3. Enter the time FMS will begin the automatic download process in the **Start Time** box or click the **Up** or **Down** arrow buttons to change the start time. The default time is 6:00 PM.
4. Enter the amount of time you would like FMS to search for the selected vehicles in the **Duration** box or click the **Up** or **Down** arrow buttons to increment or decrement the hours. The duration allows you to prolong the time for retries when the Wireless On-Board Modules are not immediately available for download, because they are either out of range or currently powered off.
5. Check the **Include Weekend** box to automatically download all seven days of the week. "Weekend" is defined in the [Night and Weekend Settings](#) dialog box. If the start time selected in this dialog box falls within the "weekend" time frame selected in the [Night and Weekend Settings](#) dialog box, download will not take place during the day or days included in the "weekend" definition unless the **Include Weekend** box is checked.

- Click **OK** to save the automatic wireless download settings and prepare FMS to automatically download the Wireless On-Board Modules or click **Cancel** to exit without saving.

Note: Since it is not required to select a vehicle when adding a new Wireless On-Board Module, Unknown is displayed under the Vehicle ID column to indicate that a vehicle has not been assigned to a Wireless On-Board Module.

Note: Only one wireless download process is allowed at a time. If an automatic download is scheduled during a manual download, the automatic download will be delayed until the manual download is completed. If the duration period for the Automatic Download has expired before the manual download has finished, Automatic Download will not take place for that day.

Back to [FMS Quick Reference Menu](#) | [Wireless Quick Reference Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

How to Start a Manual Wireless Download

Different from the [Automatic Wireless Download](#), The **Start Manual Wireless Download** dialog box lets you select some or all vehicles in your fleet to wirelessly download immediately once you press **Start Download**.

- Select **Start Manual Wireless Download** from the **Wireless** Menu or click the *Manual Wireless Download Icon* from the toolbar. The **Start Manual Wireless Download** dialog box lets you select the vehicles you want to download at this time.

Manual Wireless Download

Location: Davis

Available Vehicles:

VehicleID	License Plate	Driver
Unknown		
6	5ERT849	Kevin
9	4NRE294	Tyllia
17	NA	Charles
4	5REW234	Lisa

Vehicles in Download Queue:

VehicleID	License Plate	Driver
1	4ULX908	Charles
2	5UEY124	Bruce
7	5LWP234	Brad
13	6A23960	Jim A
15	4NPL928	Susan

Duration: 4 Hours

Start Download Cancel Help

The **Available Vehicles** list shows all available vehicles for the displayed location. The

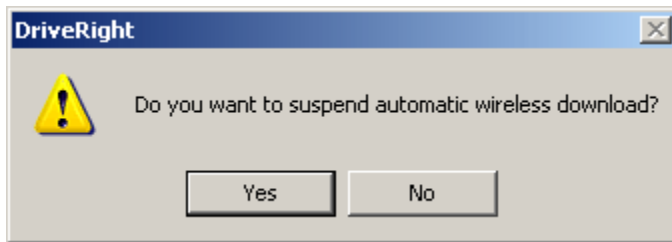
Vehicles in the Download Queue list shows the vehicles selected for manual wireless download.

2. Click **>>**, **All>>**, **<<**, or **All<<** to move the vehicles between these two lists.
3. Enter the amount of time you would like FMS to search for the selected vehicles in the **Duration** box or click the **Up** or **Down** arrow buttons to increment or decrement the hours. The duration allows you to prolong the time for retries when the Wireless On-Board Modules are not immediately available for download, because they are either out of range or currently powered off.
4. Click **Start Download** to start the download or click **Cancel** to cancel the manual download.

The [Wireless Download Status](#) dialog box displays when you click **Start Download**.

Note: Since it is not required to select a vehicle when adding a new Wireless On-Board Module, Unknown is displayed under the Vehicle ID column to indicate that a vehicle has not been assigned to a Wireless On-Board Module.

Note: Only one wireless download process is allowed at a time. If you select Start Manual Wireless Download from the Wireless Menu while an automatic wireless download is in progress or the [Wireless Download Status](#) dialog box is currently displaying, the *Do You Want to Suspend Automatic Wireless Download* dialog box displays. If you click **Yes**, the Automatic Download will be suspended until the manual download is completed. If the duration period for the Automatic Download expires before the manual download has finished, Automatic Download will not take place for that day.



Back to [FMS Quick Reference Menu](#) | [Wireless Quick Reference Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

How to Upgrade Firmware

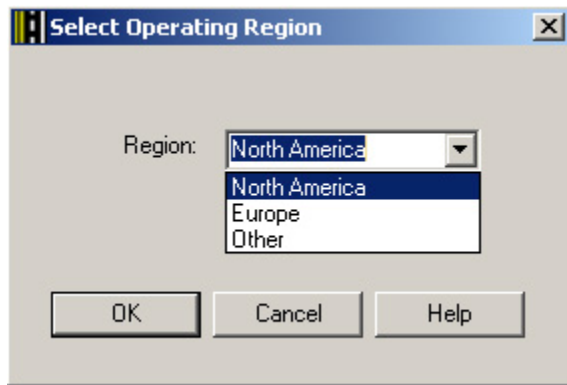
The **Upgrade Firmware** dialog box lets you update the firmware for both the wireless Base Station and Wireless On-Board Modules.

Note: To upgrade the firmware, connect the wireless device(s) to the USB port(s) of the computer. Both the Wireless On-Board Module and the Base Station share the same firmware.

To upgrade the firmware:

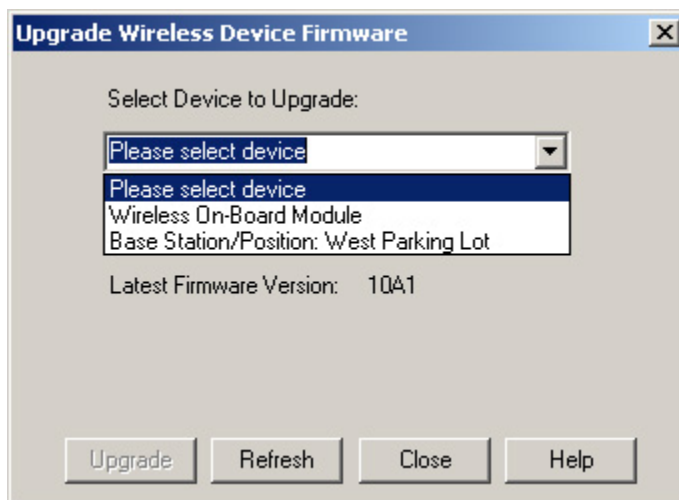
1. Select **Upgrade Firmware** from the **Wireless** Menu.

If this is the first time any wireless device has been connected to FMS, the **Select Operating Region** dialog box displays.

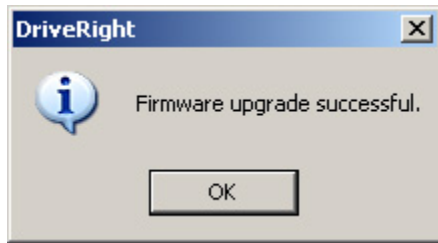


2. Select among the three choices displayed: **North America**, **Europe**, or **Other**. The operating region determines the power level of the wireless devices. Select **Europe** if the power levels of the wireless devices must not exceed CE certification requirements of less than 10 dBm. Select **North America** if the power levels of the wireless devices must not exceed FCC or IC certification requirements of less than 30 dBm. Select **Other** if the operating region is not North America or Europe.

Once an operating region has been selected, the **Upgrade Firmware** dialog box displays.



3. Select a wireless device that you would like to upgrade from the **Select Device to Upgrade** drop-down list. The device is listed either as Base Station or Wireless On-Board Module. If you have multiple Base Stations connected, select the Base Station by its position.
4. Click **Upgrade** if the **Current Firmware Version** is not the same as the **Latest Firmware Version** to upgrade the device firmware. A dialog box is displayed to confirm that the firmware has been upgraded successfully:



5. Click **OK** to exit the dialog box.
6. Click **Refresh** if you have connected another device to your computer. The **Select Device to Upgrade** drop-down list refreshes to include the newly connected device(s).
7. Click **Close** once you are finished upgrading all the wireless devices.

Back to [FMS Quick Reference Menu](#) | [Wireless Quick Reference Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Menu Commands

Menu Commands Menu

The following commands are available in the Main Menu:

[File Menu](#)

[Setup Menu](#)

[DriveRight Menu](#)

[CarChip Menu](#)

[SmartCard Menu](#)

[Wireless 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](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Backup

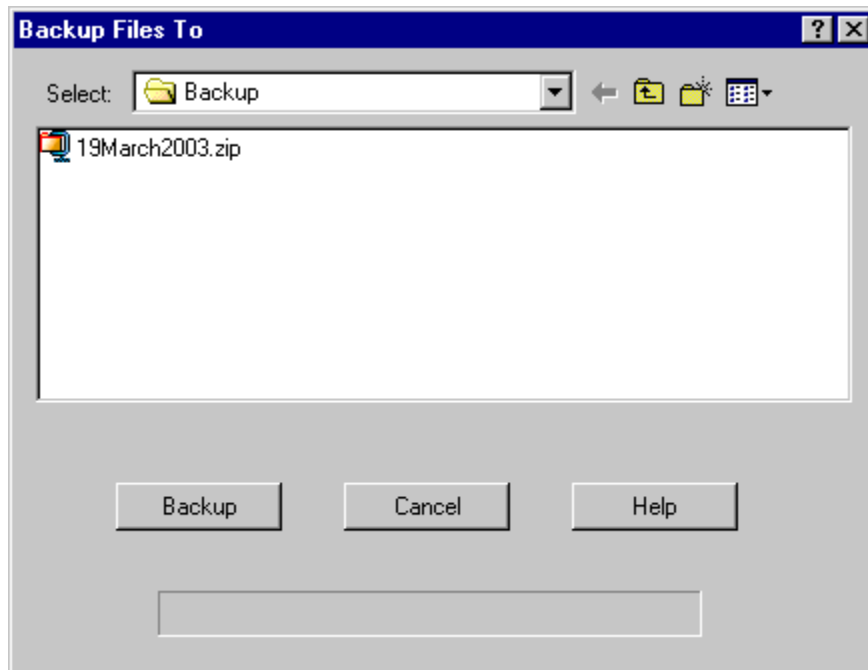
The **Backup** command is used to archive old data as a zip file. The backup files are stored in the Backup sub-directory in the DriveRight FMS install directory. The Backup sub-directory is created the first time you back up your data.

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 [Preferences: Backup Options](#) in the **Setup** menu. Limiting the amount of data in the active database helps prevent the database from growing into an unmanageable size.

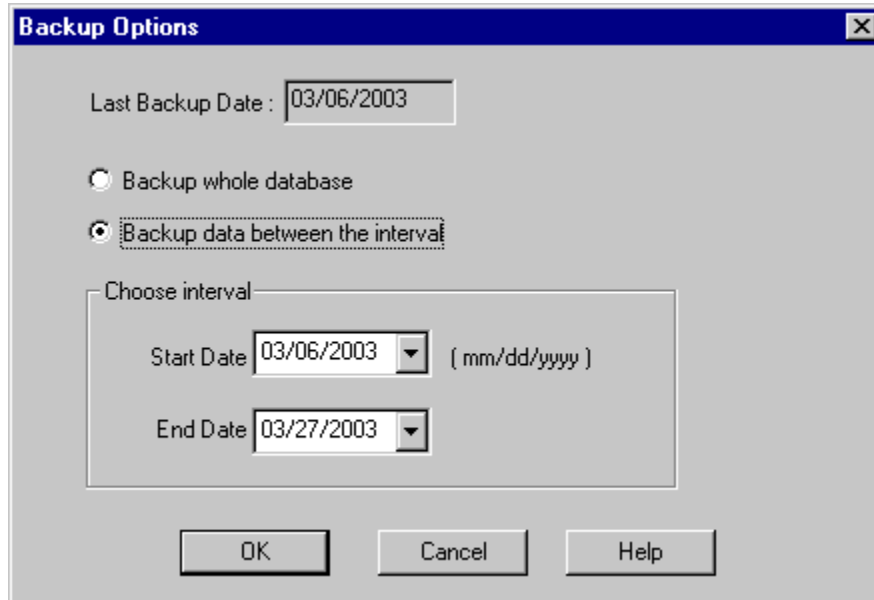
To backup data:

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: Backup Options](#)

Back to [File Menu](#)

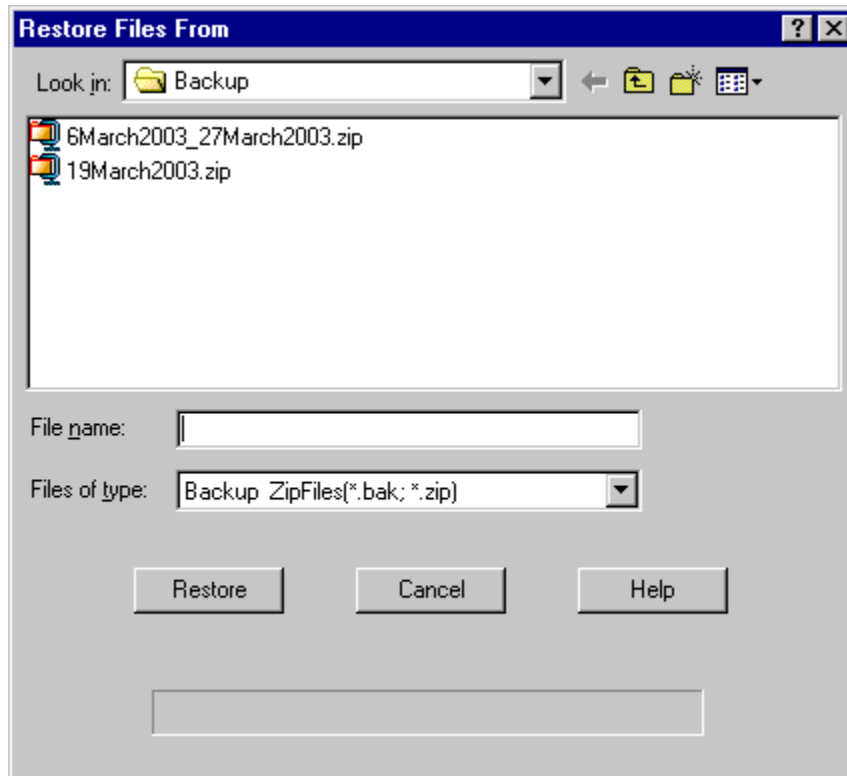
[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Restore

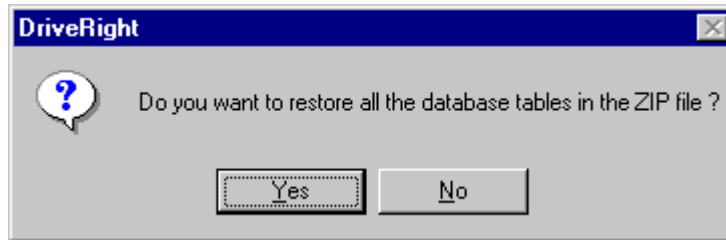
The Restore command is used to get a previously Backed up data back into the active database. In this process you can pick one or more tables to be restored.

To restore data:

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



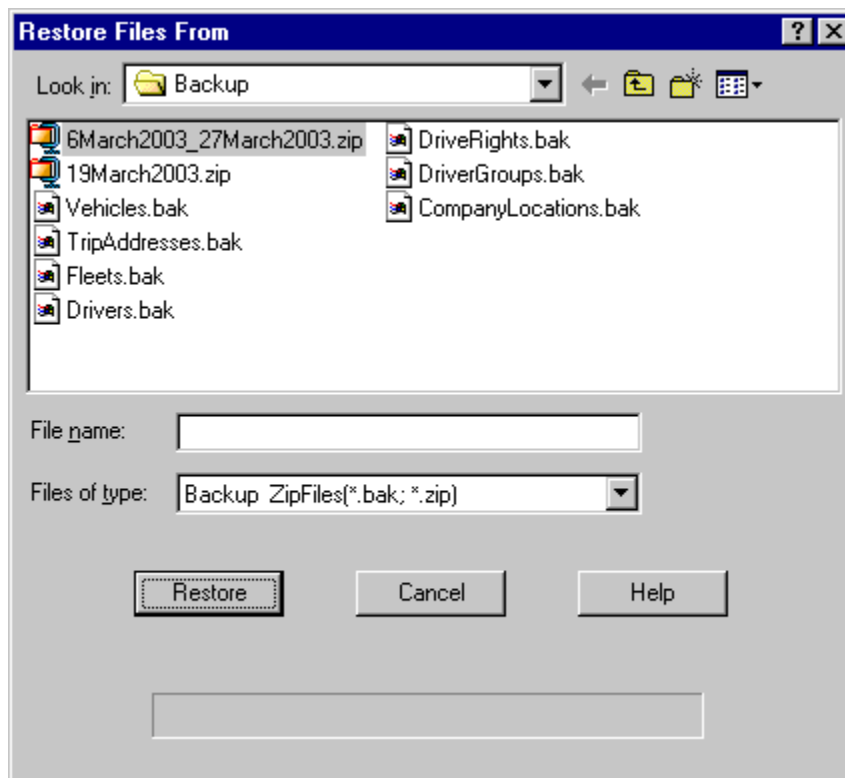
2. From the **Restored Files From** dialog box select a single zip file to restore, and then click **Restore**. DriveRight FMS unzips the file and displays all the tables in the dialog, and displays the following dialog box:



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](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Import Menu

Import Menu

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

[Import: FTP Import](#)

[Import: Import Data From](#)

[Import GPS Data into MapPoint](#)

Back to [File Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

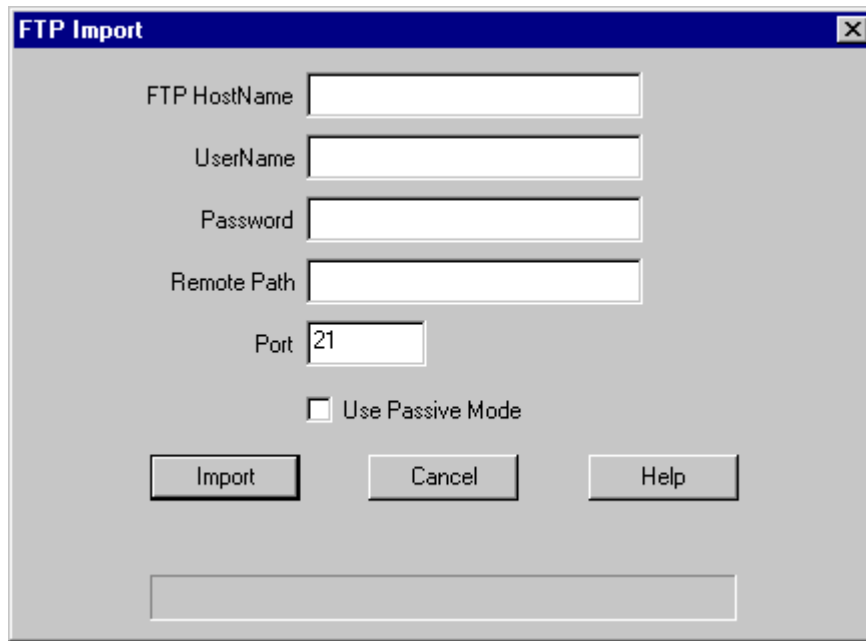
Import: FTP Import

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.

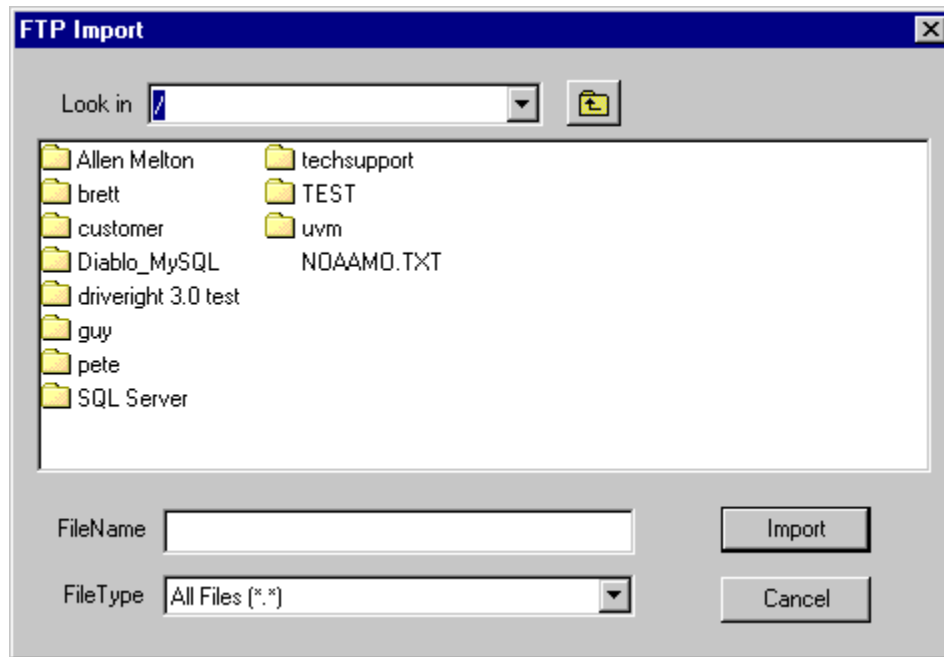
Note: Before you start this operation, contact your systems administrator for your FTP account information.

To use FTP Import:

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

The image shows a dialog box titled "FTP Import" with a standard Windows-style title bar (blue with a close button). The dialog has a light gray background. It contains five text input fields: "FTP HostName", "UserName", "Password", "Remote Path", and "Port". The "Port" field has the number "21" entered. Below these fields is a checkbox labeled "Use Passive Mode", which is currently unchecked. At the bottom of the dialog are three buttons: "Import", "Cancel", and "Help". There is also a small, empty rectangular box at the very bottom of the dialog area.

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 **Import**. The following **FTP Import** dialog box displays, 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](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

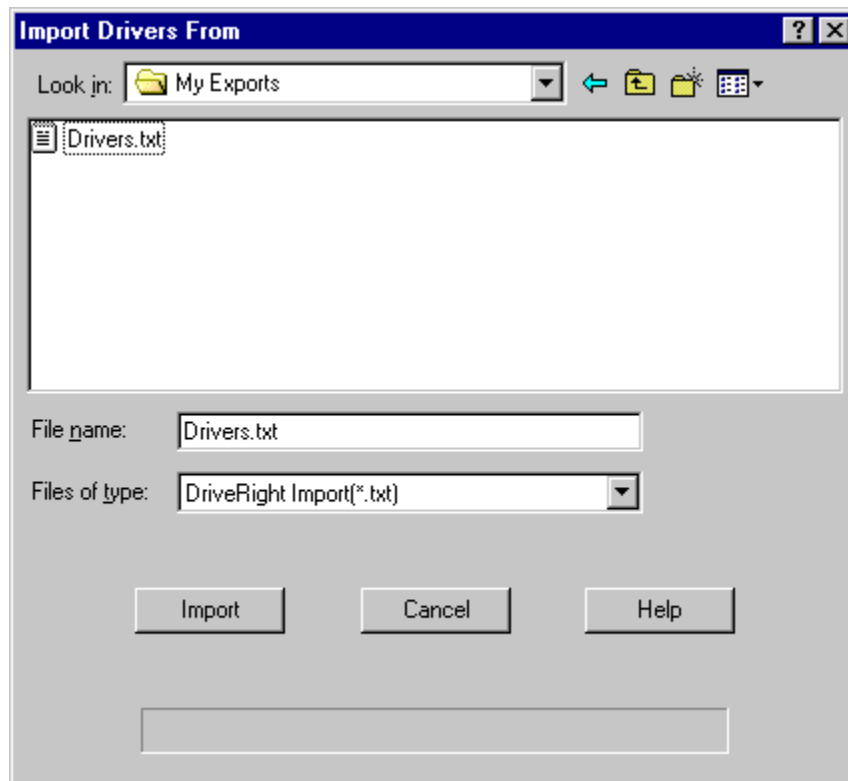
Import: Import Data From

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.

- When the **Import** dialog box displays, 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](#)

Back to [File Menu](#) | [Import Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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** menu.
3. Using the **File** dialog box find select the GPS.TXT file and click **Open**.
4. "Tab" should be selected to separate the data. Click **Next**.

5. All exported fields appear in the next dialog box. Column headings are included and should be detected by the program. All the columns should have <Other Data> as their data type except Latitude and Longitude. Check to make sure the Latitude and Longitude were detected correctly. If they are not, correct them. Click **Finish**.
6. Select **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 **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 select **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](#)

Back to [File Menu](#) | [Export Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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 MapPoint](#) - 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 MapPoint](#) - 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](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Export: FTP Export

The FTP (File Transfer Protocol) Export feature 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.

FTP Export

FTP HostName

UserName

Password

Remote Path

Port

☐ Use Passive Mode

Last date of export

Choose Interval

☐ Export data between

Start Date (mm/dd/yyyy)

End Date

Database Tables

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

3. In the **FTP Host Name** box, type the name of the FTP server to which you want to export the database tables.
4. Enter your user name and password in the appropriate boxes. To access the FTP site you must have a user account on the FTP site.
5. Enter a specific directory path in the FTP server to which to export your files in the **Remote Path** box
6. Enter a port number in the **Port** box. The default port for the FTP site is 21. Use the default port unless the FTP site listens on a different port.
7. Click **Use Passive Mode** if the FTP site uses passive mode. The 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. Select the **Export data between** box to specify the time interval you want to export. The default start date for the interval is the date of the last 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** once you are done with the above steps or click **Cancel** to exit without exporting data. The program creates 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. The default name for the export ZIP file is "day" + "month" + "year".zip (20jan2007.zip).

Back to [File Menu](#) | [Export Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

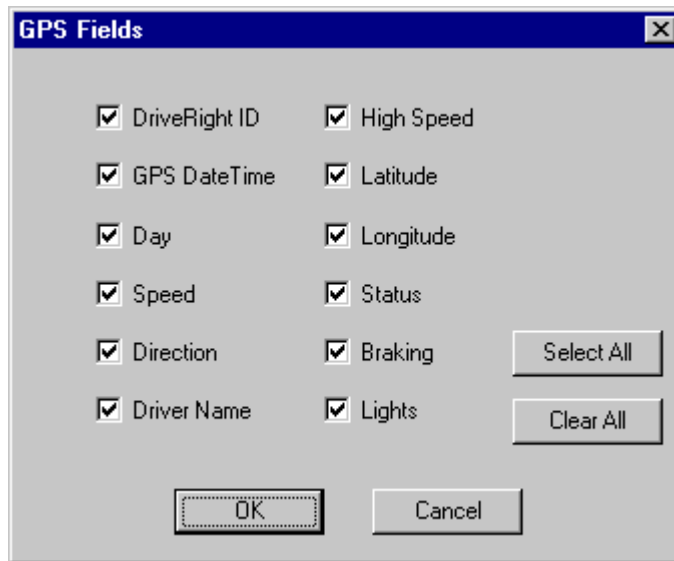
Export: GPS to MapPoint

Note: This feature is only enabled if you have chosen MapPoint as your mapping tool. This feature is not supported in Google Maps™ or Google Earth™.

To export GPS data:

1. Go to **File > Export**.
2. Select **GPS to MapPoint** in the drop-down **Export** menu.

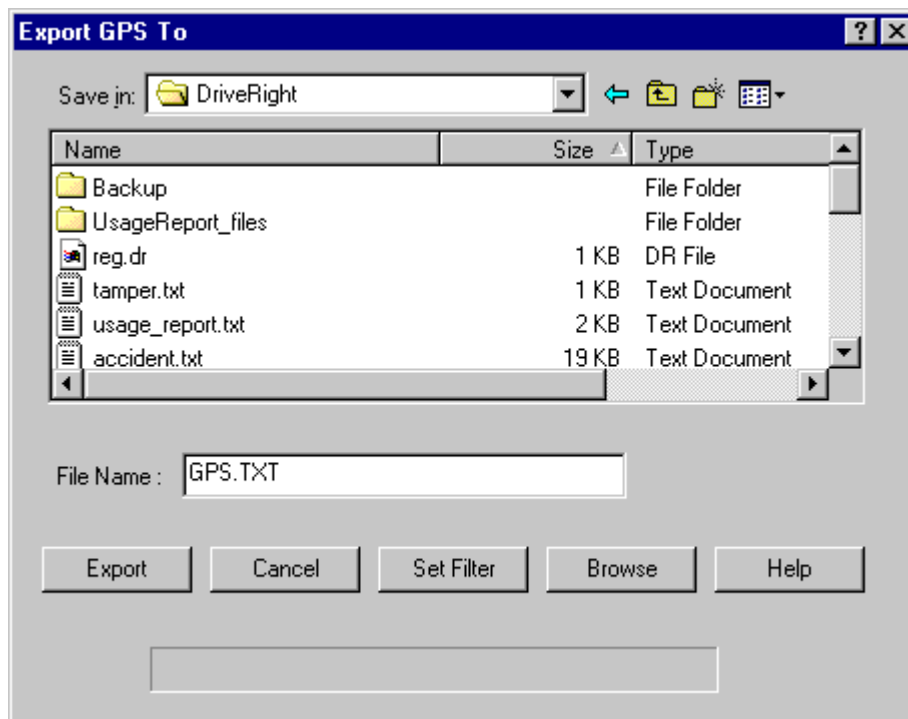
The **GPS Fields** dialog box displays.



3. Click **Select All** to check all fields. Click **Clear All** to clear all fields. Click in the box for each field to toggle the check on and off.

Note: Only the checked GPS fields will be exported. These key fields should always be selected: GPS DateTime, Speed, High Speed, Latitude and Longitude.

4. 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 **Set Filter** to narrow the selection of GPS data to be exported.
5. Click **Browse** to view the GPS data before you export it.
6. Click **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](#)

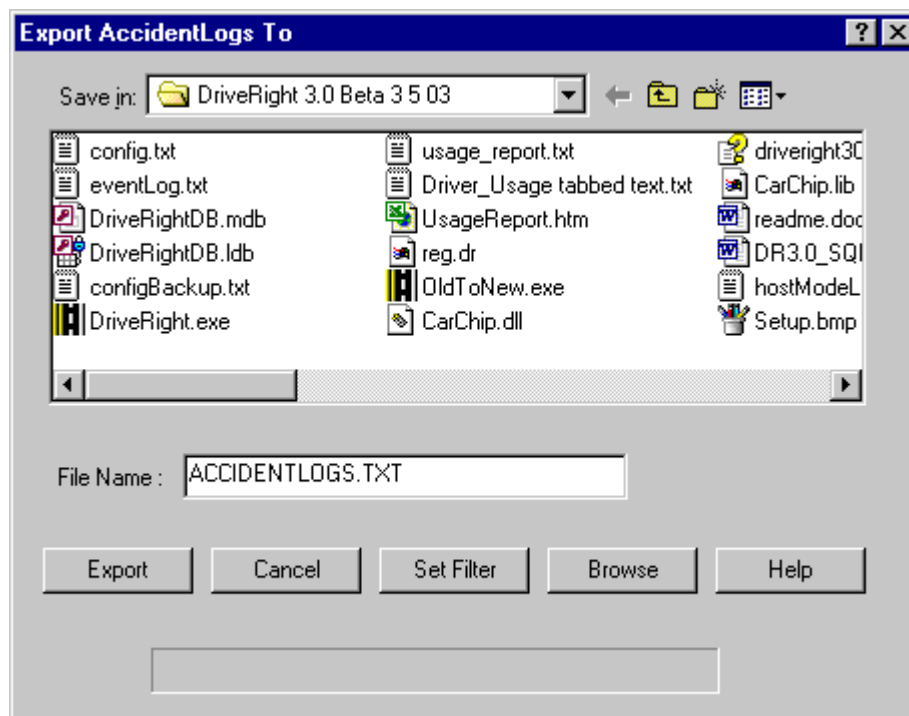
Export: Accidents to MapPoint

Note: This feature is only enabled if you have chosen MapPoint as your mapping tool. This feature is not supported in Google Maps™ or Google Earth™.

To export accident log data:

1. Go to **File > Export**.
2. Select **Accident to MapPoint**.

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** menu.
3. Using the **File** dialog box 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. Select **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 field or column to map" list, select time_T0. 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 'r;+' to zoom in and 'r;-'; 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](#)

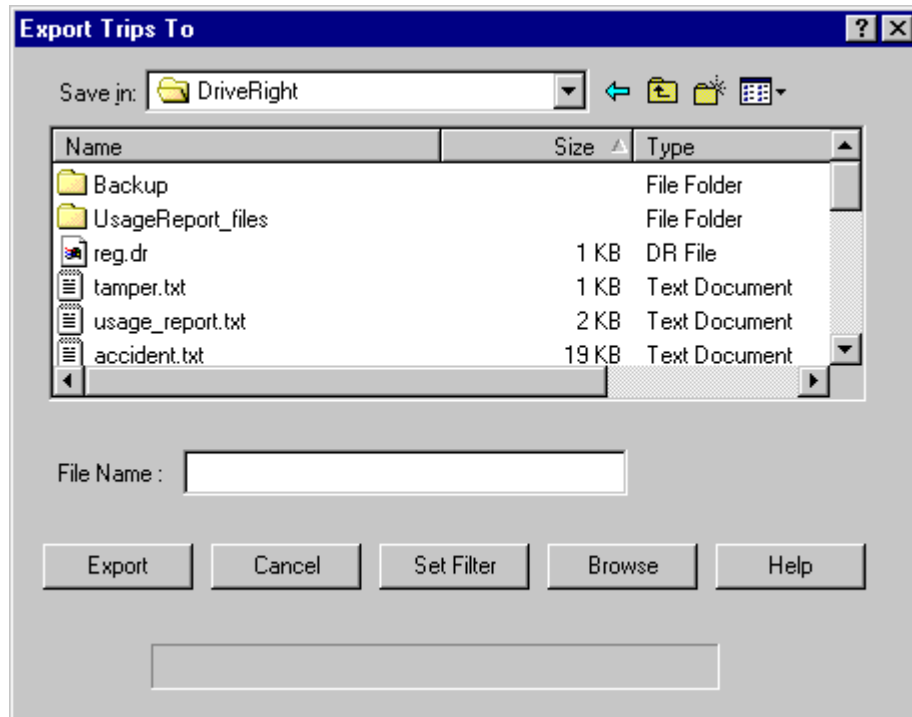
[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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. Iviewed the file before exporting by clicking **Browse** . This will give you the opportunity to view the selected records that will be exported.
7. If the data is correct, you can click **Export** to create the export data file.

Back to [File Menu](#) | [Export Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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.

Back to [File Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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.

Back to [File Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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.

Back to [File Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Clear Screen

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

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:



Back to [File Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Exit

Use the Exit command to close the DriveRight software.

To exit the software:

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

Back to [File Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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](#)

[SmartCard Reader](#)

[Default DriveRight Settings](#)

[Default CarChip Settings](#)

[Digital Input Labels](#)

[Corporate Structure](#)

Back to [Menu Commands](#)

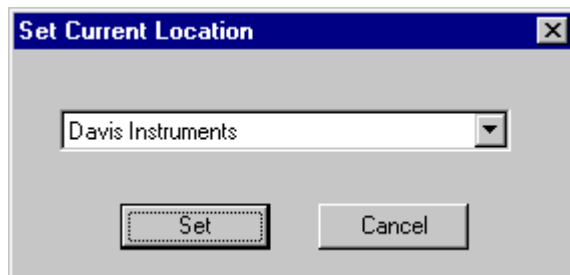
[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Current Location

All data is organized according to location. All information is stored as part of the Current Location. Set the 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** in the Browser.

Back to [Setup Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Users 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](#)

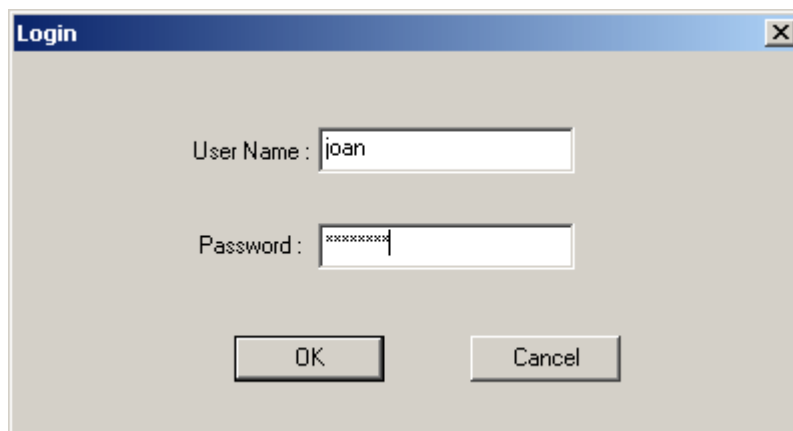
[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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** sub-menu in the **Setup** Menu. The **Login** dialog box is displayed.



The screenshot shows a standard Windows-style dialog box titled "Login". It has a light gray background and a blue title bar with the text "Login" and a close button (X) in the top right corner. Inside the dialog, there are two text input fields. The first field is labeled "User Name :" and contains the text "joan". The second field is labeled "Password :" and contains masked characters "xxxxxxx". Below these fields are two buttons: "OK" and "Cancel".

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.

Back to [Setup Menu](#) | [Users Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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 **Delete**.
5. To print the browse window, click **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](#)

Back to [Setup Menu](#) | [Users Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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.

Back to [Setup Menu](#) | [Users Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Preferences Menu

Preferences Menu

You can set the following program preferences in DriveRight FMS:

[Units](#)

[Backup Options](#)

[Download Options](#)

[Night and Weekend Settings](#)

[Database Browser](#)

Back to [Setup Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

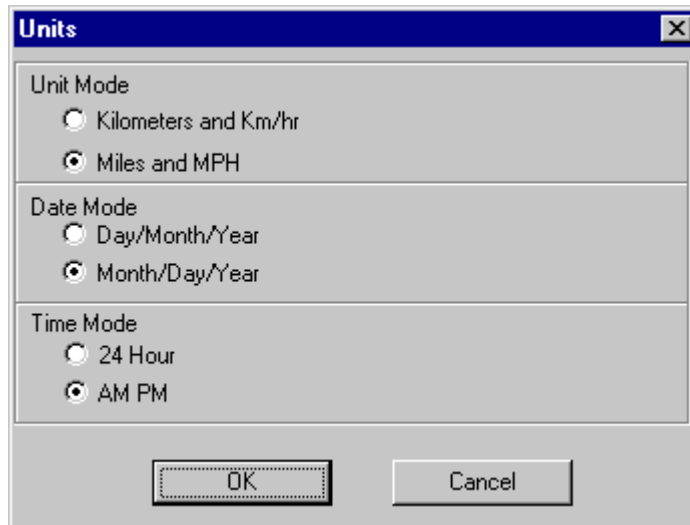
Preferences: Units

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.

Back to [Setup Menu](#) | [Preferences Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

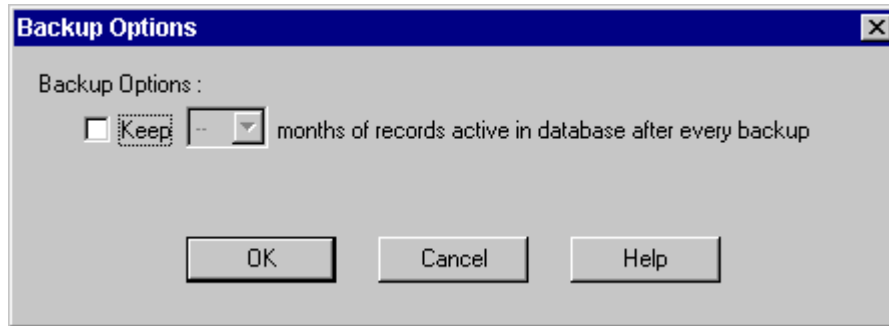
Preferences: Backup Options

Use the **Backup Options** command to set the number of months of records to keep in the database after every backup. Refer to [Active Database Size Recommendations](#) and [Database Backup Considerations](#) for more information.

To set your backup options:

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

The **Backup Options** dialog box displays.



2. Check the **Keep X months of records active in the database after every backup** box 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.
3. Click **OK** to accept backup options or click **Cancel** to exit the dialog box without saving the changes.

See also:

[Database Backup Considerations](#)

[Active Database Size Recommendations](#)

Back to [Setup Menu](#) | [Preferences Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

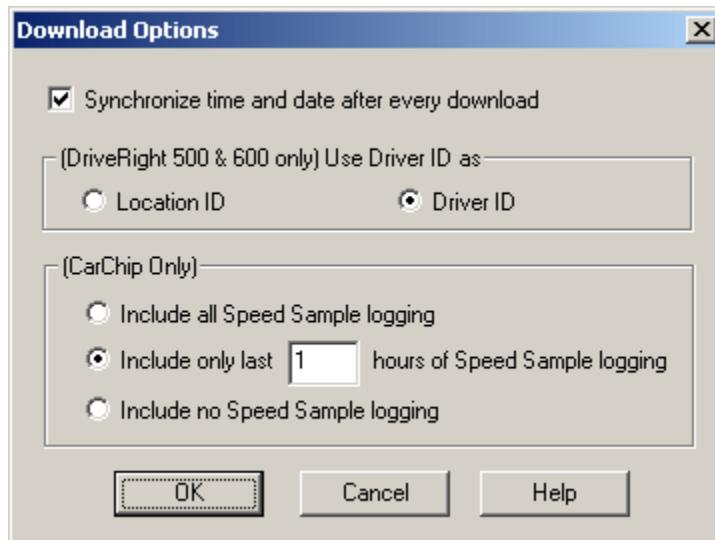
Preferences: Download Options

Use **Download Options** in the **Preferences** Menu 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, DriveRight 600, and 600E consoles. Also, use this dialog box to determine how the speed samples taken from the CarChip Fleet and CarChip Fleet Pro are saved in the database.

To set your download options:

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

The **Download Options** dialog box displays.



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

Note: If you choose this option, all DriveRight consoles and CarChip devices including 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 DriveRight 600, or 600E console, set the **DriverID** as either the **Location ID** or the **Driver ID**. You may specify a Driver ID using the code on the DriveRight. If only one driver uses a vehicle, the code may be used as a Location ID. To specify an ID for each Location ID, select Database>Trip Addresses.

At the beginning of each trip, specify the Trip Address ID in the DriveRight device. When downloading a DriveRight device, DriveRight FMS interprets each ID as the destination of a trip

4. If you are using a CarChip Fleet or CarChip Fleet Pro, select one of the radio buttons pertaining to how the speed sample logs are saved in the [CarChip Parameter Logs](#) database table. Select **Include all Speed Sample** logging to store all speed sample information for every CarChip download. Select **Include last ____ hours of Speed Sample logging** to determine the number of hours of speed data recorded by the CarChip that the FMS software keeps. Select **Include no Speed Sample logging** to stop any of the Speed Sample information from being downloaded into the database.

By design, CarChip accumulates speed sample records according to the frequency set in the [CarChip Device Settings](#) dialog box. This speed sampling can be as frequent as every second. Frequent speed sampling can take up large amounts of database space.

To save database space, the default setting of one hour is used, saving the last hour of speed interval data that gets displayed in the [CarChip Parameter Logs](#) database table. Select this check box and enter the number of hours of Speed Sample logging data you want to keep. This setting can be changed to log all speed samples, log any number of hours of samples (from one to 96 hours), or not to save any samples from the downloaded CarChip.

As long as the CarChip is not cleared after the download, all the speed sample data still exists in the CarChip's memory. If this data is needed, the CarChip can be downloaded again with this setting changed to include more speed sample data. This data can also be seen in detail by downloading the CarChip information into the retail CarChip Software included on the FMS software disk.

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

Back to [Setup Menu](#) | [Preferences Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Night and Weekend Settings

The Night and Weekend Settings window allows you to define night driving based on the time of day. You can define weekend driving based on day of the week and the time of day.

To change the Night and Weekend Settings:

1. Select **Preferences** from the **Setup** menu.
2. Select **Night and Weekend Settings** from the **Preferences** menu.
3. The **Night and Weekend Settings** dialog box displays.

The screenshot shows the 'Night and Weekend Settings' dialog box. It has a blue title bar with the text 'Night and Weekend Settings' and a red close button. The dialog is divided into two main sections: 'Night' and 'Weekend'. The 'Night' section contains two time pickers: 'After' and 'Before'. The 'After' picker is set to 6:00:00 PM and the 'Before' picker is set to 6:00:00 AM. The 'Weekend' section contains two day and time pickers: 'From' and 'To'. The 'From' picker is set to Friday 6:00:00 PM and the 'To' picker is set to Monday 8:00:00 AM. At the bottom of the dialog are three buttons: 'OK', 'Cancel', and 'Help'.

3. You can change the times used to define when Night begins and end in the formula by entering the new time directly in the **After** and **Before** edit boxes or by selecting the hour, minute, second or AM / PM positions and using the up and down scroll arrows to change the setting.
4. Change the days of the week used to define weekend driving by selecting the day of the week and time you want the weekend to start in the **From** box and the day of the week and time you want the weekend to end in the **To** box.
5. Click **OK** to save the formula or click **Cancel** to exit the dialog box without saving the formula.

Note: The days and times selected here will affect the days and times that automatic wireless download occurs in the [Setup Automatic Wireless Download](#), [Vehicle Activity Report](#), and [Usage Report](#) dialog boxes.

Back to [Setup Menu](#) | [Preferences Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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](#)

Back to [Setup Menu](#) | [Preferences Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Host Mode Menu

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](#)

Back to [Setup Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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](#)

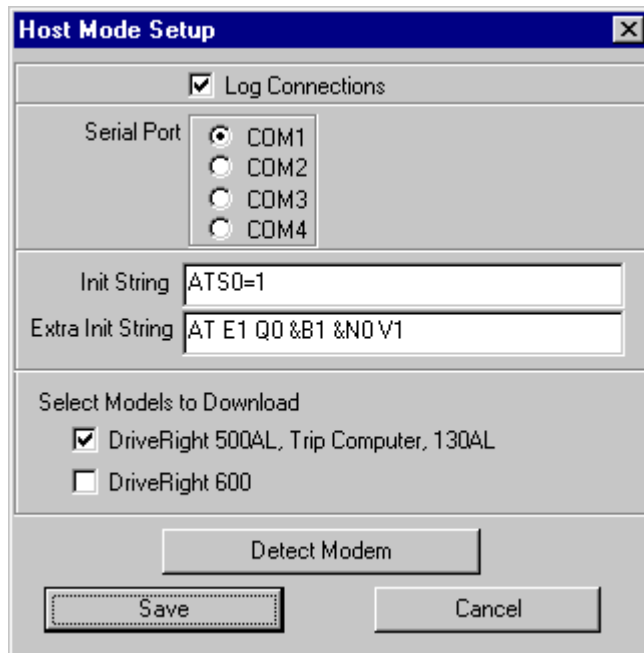
[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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](#)

Back to [Setup Menu](#) | [Host Mode Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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 the 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

Initialization String 1: AT E1 Q0 &B1 &N0 V1

Initialization String 2: ATS0=3

See also:

[Host Mode On](#)

[Host Mode Setup](#)

Back to [Setup Menu](#) | [Host Mode Menu](#)

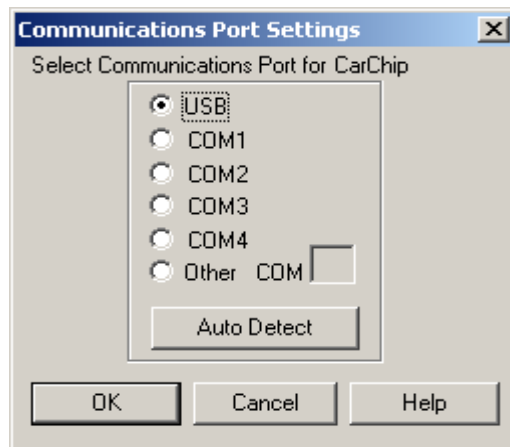
[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Communications Port - 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.

Back to [Setup Menu](#)

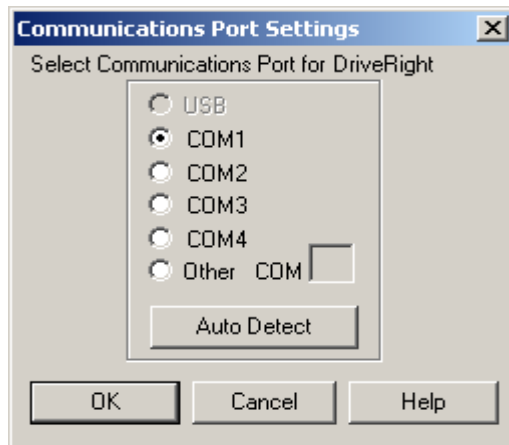
[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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. Select 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 **Auto Detect**
- 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 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](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

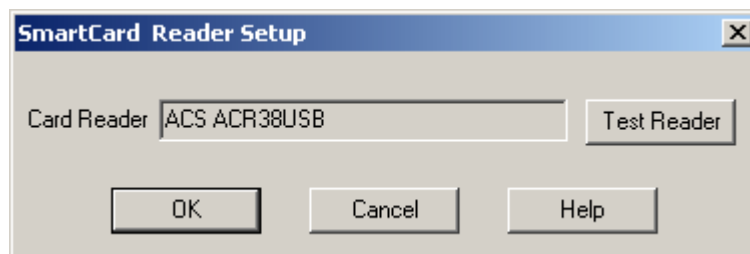
SmartCard Reader

The **SmartCard Reader** dialog box lets you test the SmartCard Desktop Reader used to read, download and setup the SmartCards used as part of the DriveRight system for transferring data from the DriveRight back your computer.

Note: In order to setup up and test your SmartCard reader, you must [install the necessary drivers](#) included with the DriveRight FMS software first. See the *FMS Getting Started Guide* for more information.

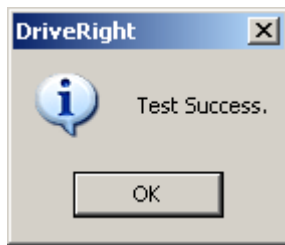
To test your SmartCard Desktop Reader device:

1. Connect your SmartCard Desktop Reader to your computer and insert a SmartCard into the SmartCard Desktop Reader.
2. Select SmartCard Reader from the **Setup** menu. The **SmartCard Reader Setup** dialog box is displayed.



If the SmartCard Driver is installed properly, "ACS ACR38USB" displays in the **Card Reader** text box.

3. Click **Test Reader** to verify that the SmartCard Reader is successfully reading and transmitting the data back to your computer. If the test is successful, the following dialog box is displayed.



4. Click **OK** and click **OK** again in the **SmartCard Reader Setup** dialog box to accept the reader settings.

Back to [Setup Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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](#)

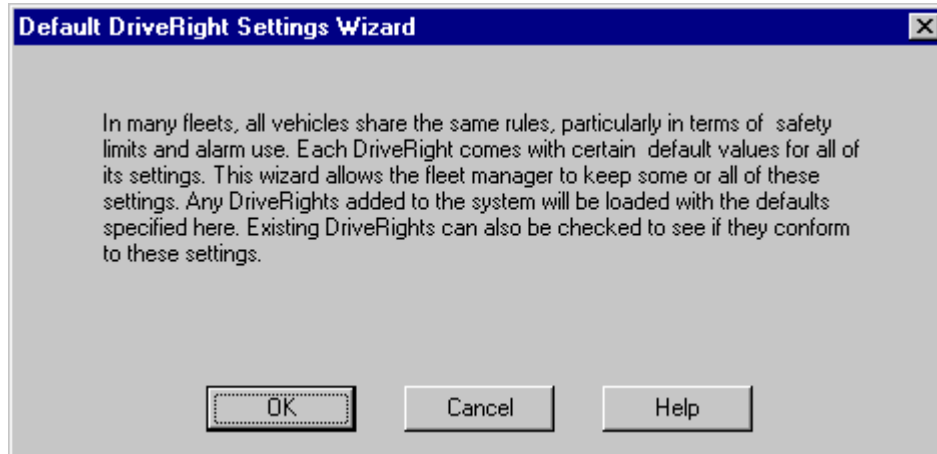
[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Default DriveRight Settings Wizard

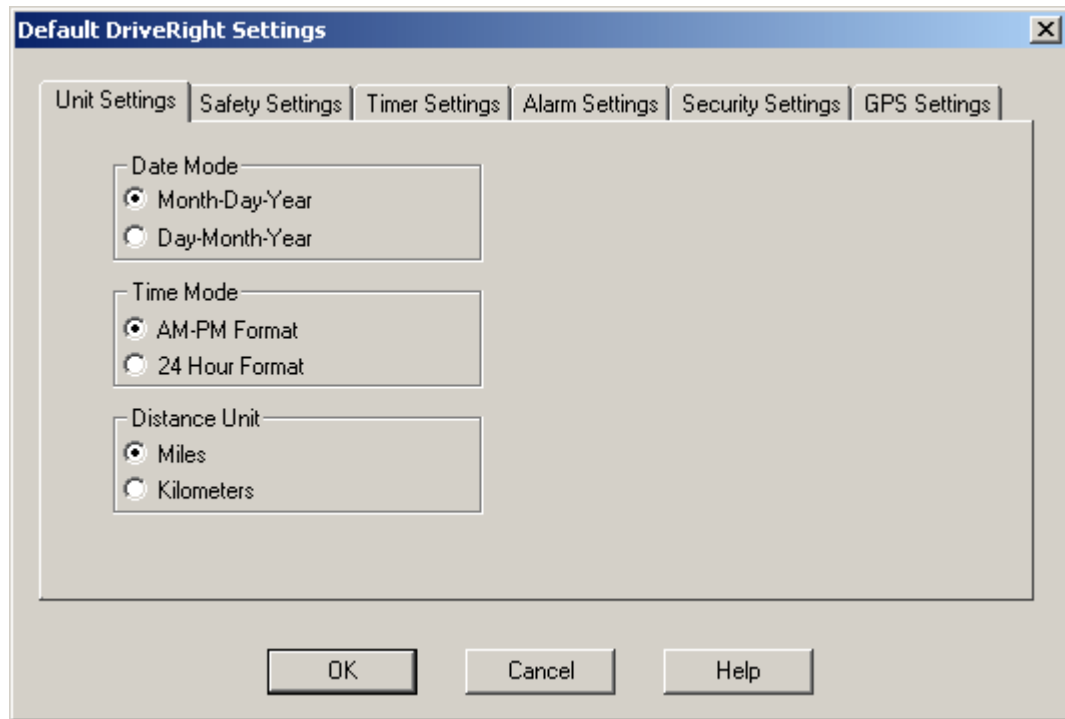
The values entered in this setup are used as default settings when you add new DriveRight devices to the database. If you click this menu option , a dialog box pops up that contains a brief description about the Default DriveRight Settings Wizard.

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. Disable Console Login is also an option.
 - [GPS Settings](#): Create default GPS settings that can be used by all the vehicles in your fleet.
4. Once you are finished with the above five dialog boxes, a tab control dialog box appears with all the above six 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](#)

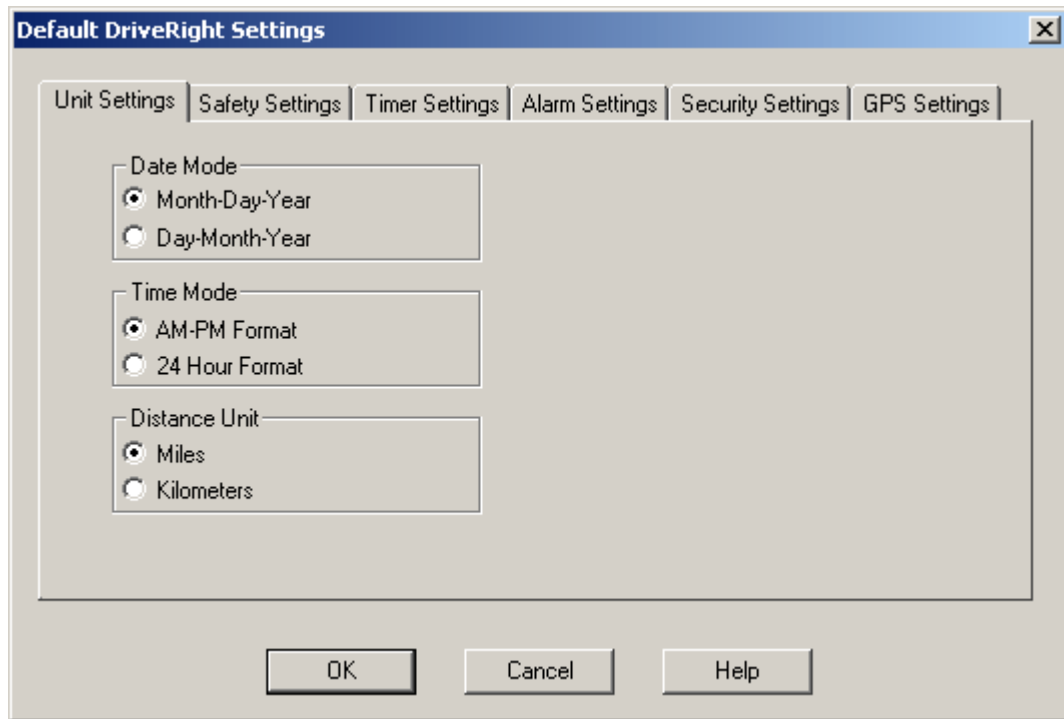
Default DriveRight Settings View/Set

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 you are finished, click OK to save any changes or click Cancel to exit without saving changes.

Back to [Setup Menu](#) | [Default DriveRight Settings Menu](#)

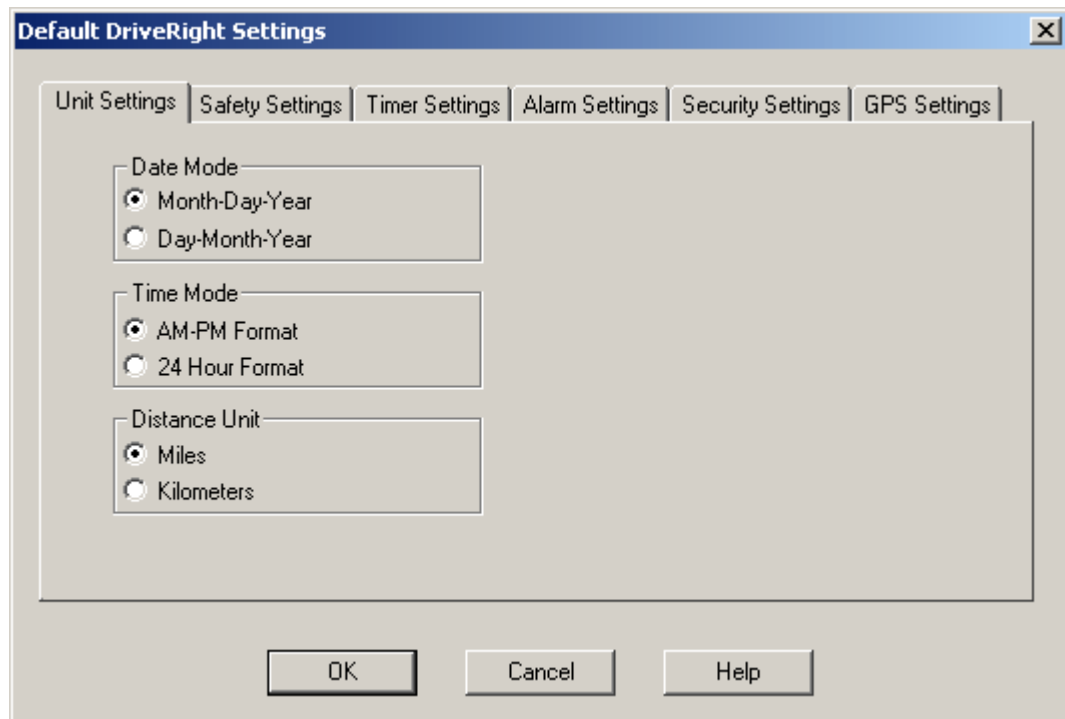
[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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 tab 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.

The screenshot shows a dialog box titled "Default DriveRight Settings" with a close button (X) in the top right corner. Below the title bar are six tabs: "Unit Settings", "Safety Settings", "Timer Settings", "Alarm Settings", "Security Settings", and "GPS Settings". The "Safety Settings" tab is selected and highlighted. The main area of the dialog box contains three input fields: "Speed Limit" with the value "75", "Accel Limit" with the value "0.35", and "Decel Limit" with the value "0.35". At the bottom of the dialog box are three buttons: "OK", "Cancel", and "Help".

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.

The screenshot shows the 'Default DriveRight Settings' dialog box with the 'Timer Settings' tab selected. The dialog box has a title bar with a close button (X). Below the title bar are six tabs: 'Unit Settings', 'Safety Settings', 'Timer Settings' (which is active), 'Alarm Settings', 'Security Settings', and 'GPS Settings'. The 'Timer Settings' tab contains two sections. The first section is titled 'Stop Time' and contains a label 'Trip Stop Time :', a text input field with the value '5', and the word 'minutes'. Below this is a note: 'Note : A DriveRight will end a trip when this time has expired'. The second section is titled 'Logout Time' and contains a label 'Driver ID Logout Time :', a text input field with the value '2', and the word 'minutes'. Below this is a note: 'Note : A DriveRight will automatically log out a Driver ID when this time has expired. If the Logout Time is set to 0 minutes, then the DriveRight will never log the driver out.' At the bottom of the dialog box are three buttons: 'OK', 'Cancel', and 'Help'.

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](#)

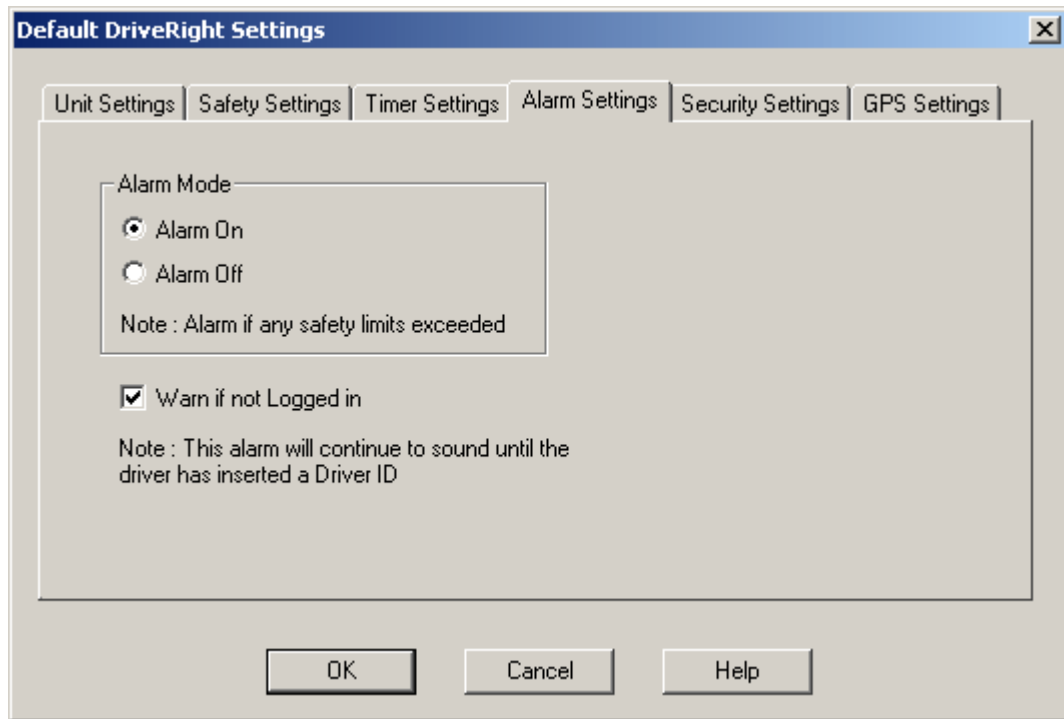
[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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](#)

Back to [Setup Menu](#) | [Default DriveRight Settings](#) | [Default DriveRight Settings - View/Set](#)

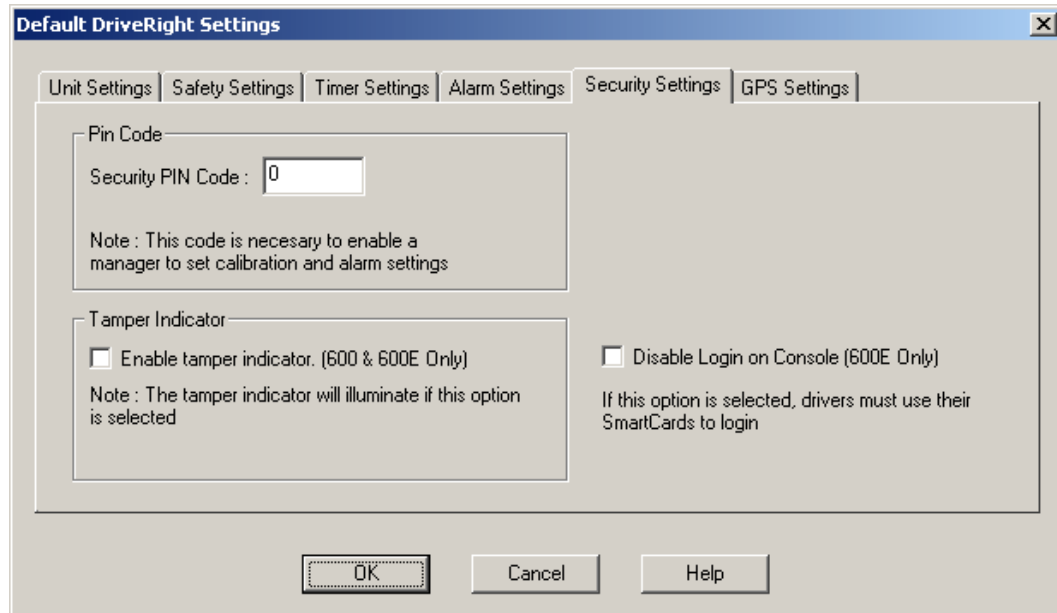
[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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. If desired, you can disable Login from the console so that a driver can log into the device using only the SmartCard. Check the **Disable Login on Console** box to disable console Login. This application is available for DriveRight 600E devices only.
6. 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.

See Also:

[Unit Settings](#)

[Security Settings](#)

[Timer 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](#)

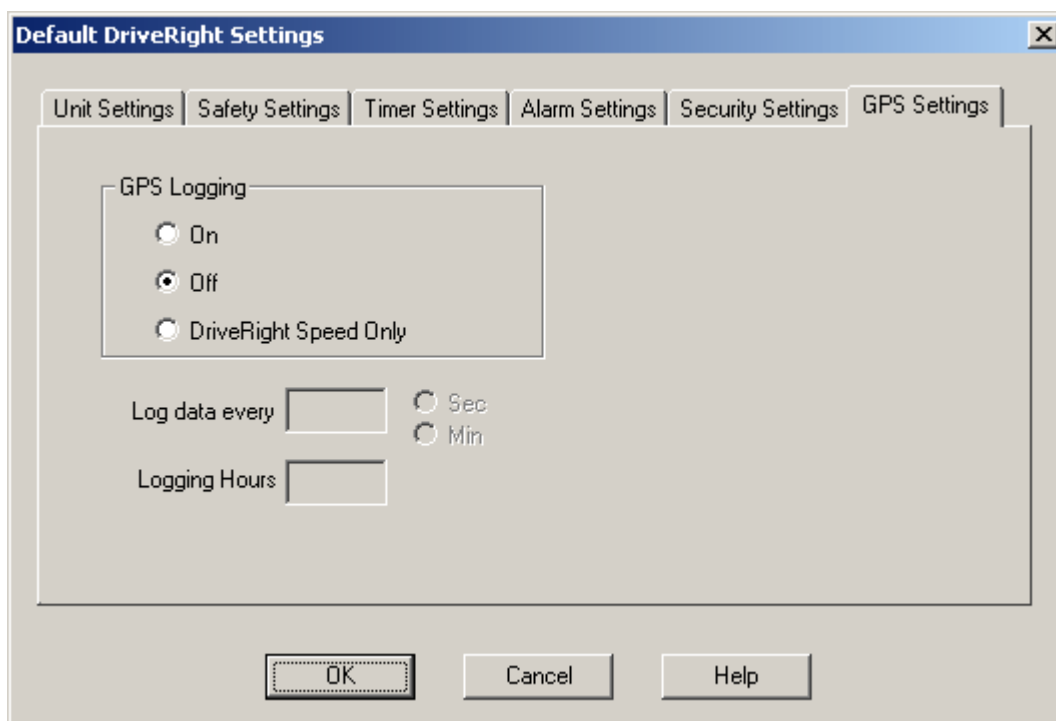
GPS Settings - Default DriveRight Settings

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.

Default CarChip Settings

Identification

Company Location:

CarChip ID:

Serial Number:

☐ Vehicle ID:

☐ Driver Name:

Anomalous Vehicles

☒ Vehicle with standard OBDII capabilities

☐ Specific Exceptions:

☐ Specific OBDII Protocols:

Misc Settings

Alarm Status: ☐ High ☒ Medium ☐ Low ☐ Disabled

LED Status: ☒ Enabled ☐ Disabled

Speed Bands

	From (miles/hr)	To (miles/hr)
Speed Band 1	0	45
Speed Band 2	46	60
Speed Band 3	61	70 (Speed Limit)
Speed Band 4	71	

Hard Braking

Hard Braking Threshold: G (Decel Limit)

Extreme Braking Threshold: G

Acceleration

Hard Acceleration Threshold: G (Accel Limit)

Extreme Acceleration Threshold: G

Choose Parameters

	Name	Interval
Parameter 1	Vehicle Speed	1 Seconds
Parameter 2	Engine Speed	5 Seconds
Parameter 3	Coolant Temperature	5 Seconds
Parameter 4		Seconds
Parameter 5		Seconds

GPS Logging

☐ On ☒ Off

Log data every: ☐ Seconds ☐ Minutes

Estimated Logging Time: Hours

Buttons:

2. Edit the default settings for **Hard Braking**, **Acceleration**, and **Speed Bands**.
 - 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. Set the Logging Interval for the **Vehicle Speed Parameter** and select up to four other [engine parameters](#). Supported time intervals range from 1 seconds to 60 seconds.
 4. Set the default **Alarm Status** for all CarChips. If the CarChip is CarChip Fleet Pro, you have the choice between three volume settings and disabling the Alarm feature. If the CarChip is a CarChip Fleet, you have the choice between Medium and Disabled.
 5. Set the default **LED Status** for all CarChips. If **Enabled**, the green LED on the CarChip flashes when plugged into a vehicle and flashes continually when the vehicle is running. If **Disabled**, the green LED does not flash while in the vehicle.
 6. Determine if the **GPS** feature is enabled for all CarChips and set the interval at which the GPS data is logged. The GPS Logging feature is available for the CarChip Fleet Pro models (# 8246). Select **On** to turn the GPS logging feature for all CarChips. Select **Off** to turn off the GPS feature for all CarChips. A CarChip GPS/Wireless Interface Module (# 8251) and GPS Module (# 8128) must be installed in a vehicle with each CarChip to log CarChip GPS data.
- The **Estimated Logging Time** box lists the approximate number of hours CarChip data can be logged without the CarChip rewriting over the oldest data stored. The number of hours the Carchip can log depends on the parameters logged, their selected logging intervals, if GPS logging has been enabled and the logging interval for the GPS feature.
7. When you are finished, click **Set Defaults** to save any changes, click **Defaults** to clear all changes and display the original defaults, or click **Cancel** to exit without saving changes.

Back to [Setup Menu](#)

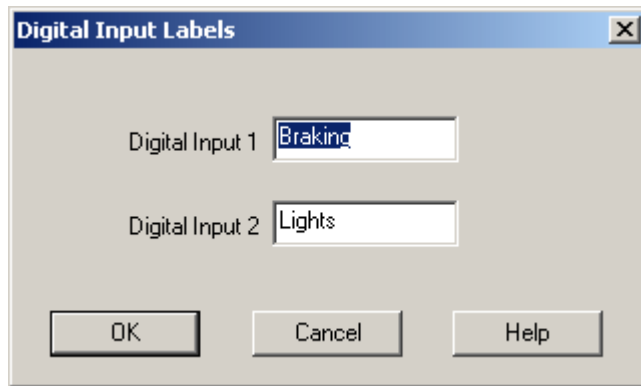
[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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 unbuckling. Do this until you find the wire that goes from 0 to 12 volts when buckling and unbuckling 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.

Back to [Setup Menu](#)

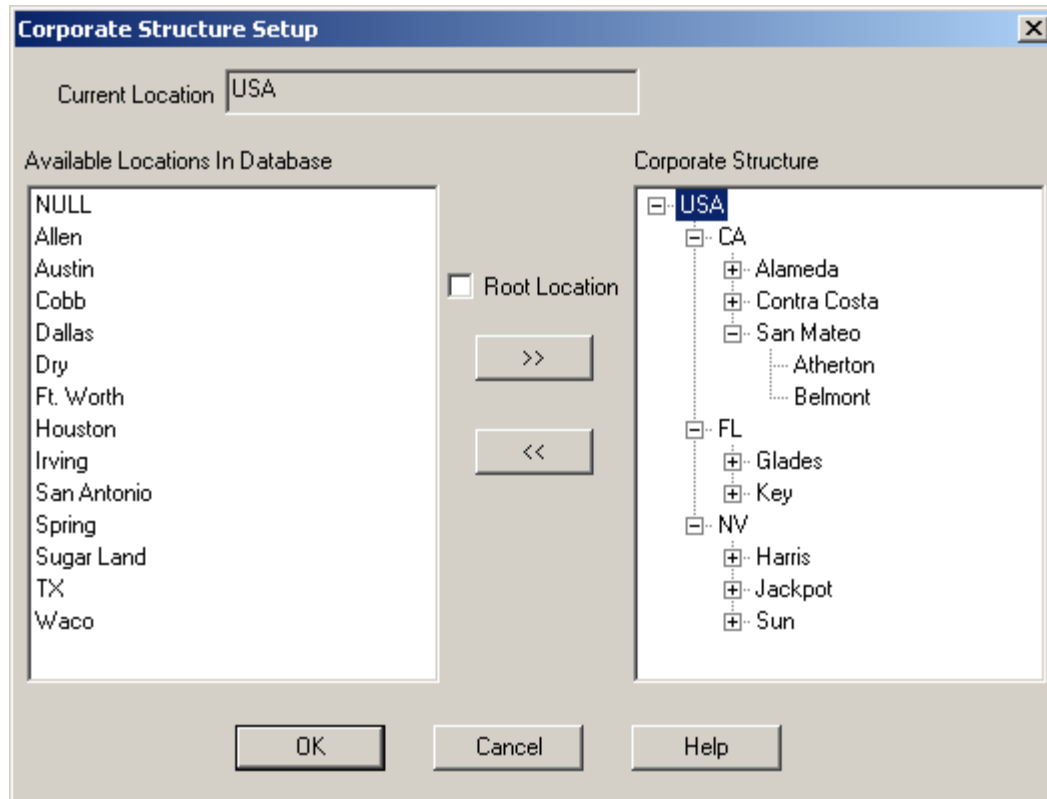
[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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.



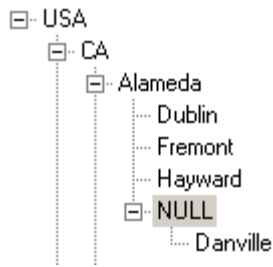
2. Use the location combo boxes to create or edit the corporate location structure. Select a location from the **Available Locations in Database** box and click the >> button to move the Location to into the **Corporate Structure** box.

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 remove 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](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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.
 - 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](#).

The screenshot shows a software window titled "Review Settings For New DriveRight". It contains a series of tabs: Identification, Calibration, Units, Safety Settings, Timer Settings, Alarm Settings, Security Settings, and GPS Settings. The "Identification" tab is selected. Inside this tab, there are five input fields: "Company Location" with the text "NV", "DriveRight Type" with a dropdown menu showing "DriveRight 600E", "DriveRight ID" with the text "1234", "Vehicle ID" with a dropdown menu showing "2", and "Default Driver" with the text "Jane Smith". At the bottom of the window, there are three buttons: "Set", "Cancel", and "Help".

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](#)

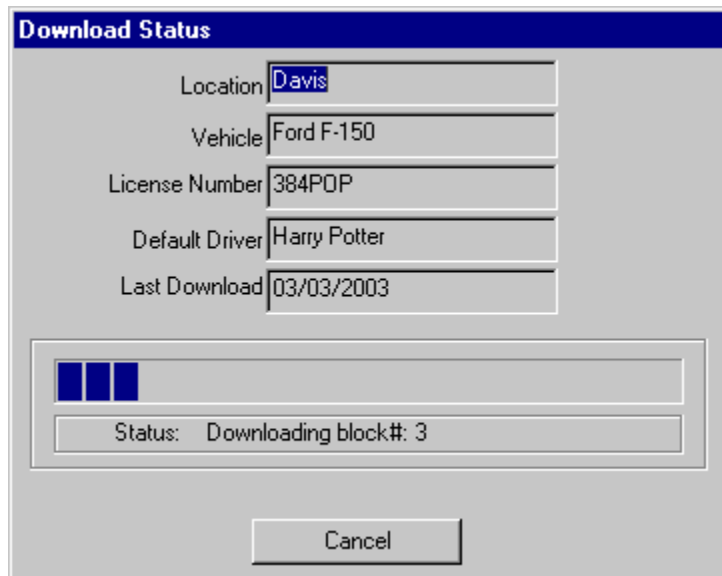
Download DriveRight

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.



Download Status

Location: Davis

Vehicle: Ford F-150

License Number: 384POP

Default Driver: Harry Potter

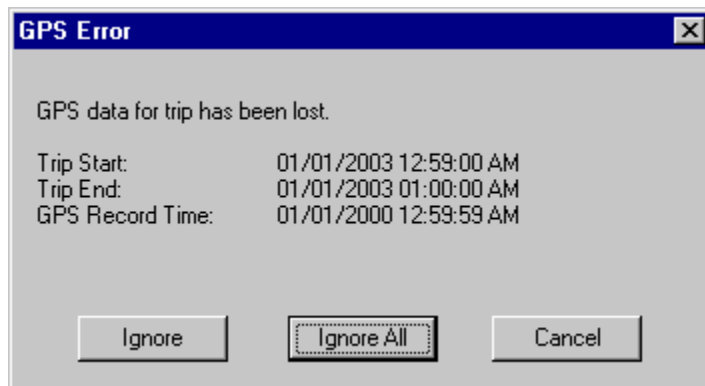
Last Download: 03/03/2003

Progress bar: [|||||]

Status: Downloading block#: 3

Cancel

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:



GPS Error

GPS data for trip has been lost.

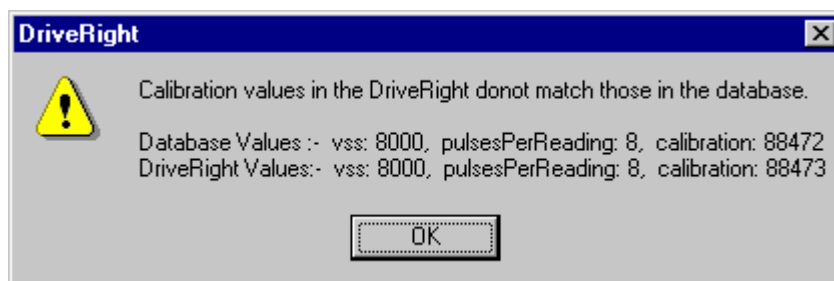
Trip Start: 01/01/2003 12:59:00 AM

Trip End: 01/01/2003 01:00:00 AM

GPS Record Time: 01/01/2000 12:59:59 AM

Ignore Ignore All Cancel

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:



DriveRight

Calibration values in the DriveRight donot match those in the database.

Database Values :- vss: 8000, pulsesPerReading: 8, calibration: 88472

DriveRight Values :- vss: 8000, pulsesPerReading: 8, calibration: 88473

OK

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](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

DriveRight Settings

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](#)

DriveRight Settings: View/Set

Use this command to view and/or modify the DriveRight device settings for the connected DriveRight device:

1. Select **DriveRight Settings** from the **DriveRight** Menu.
2. Select **View/Set** from the **DriveRight Settings** drop down list. The **DriveRight Device Settings** dialog box is displayed.

DriveRight Device Settings

Identification

Company Location: NV

DriveRight Type: DriveRight 600E

DriveRight ID: 1234

Vehicle ID: 2

Driver: Jane Smith

Calibration

Installation Method: ☐ VSS ☐ Reed Switch ☒ OBD Adapter

VSS PPM: 75000

Pulses per reading: 32

Calibration Number: 37749

Units

Date Mode: ☒ Month-Day-Year ☐ Day-Month-Year

Time Mode: ☒ AM-PM ☐ 24 Hour

Distance Unit: ☒ Miles ☐ Kilometers

Safety Settings

Speed Limit: 65

Accel Limit: 0.30

Decel Limit: 0.35

Timer Settings

Trip Stop Time: 10

Driver ID Logout Time: 0

Alarm Settings

Alarm Mode: ☐ Alarm On ☒ Alarm Off

☐ Warn if not Logged in

Security Settings

PIN-code: 0 ☐ Enable tamper indicator

☒ Disable Login on Console

Set Close Help

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

[Identification](#)

[Calibration](#)

[Units](#)

[Safety Settings](#)

[Timer Settings](#)

[Alarm Settings](#)

[Security Settings](#)

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

4. Click **Set** to save the changes or click Close to exit without saving.

Back to [DriveRight Menu](#) | [DriveRight Settings](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

DriveRight Settings: Restore

Use this command to update the DriveRight device using settings stored in the database:

1. Select DriveRight Settings from the DriveRight Menu.
2. Select Restore from the DriveRight Settings drop down list. The Restore DriveRight Settings dialog box is displayed.

Note: If the DriveRight has already been configured the software will automatically display the existing settings.



3. Select the desired DriveRight ID and driver name from the drop down lists.

Note: The software will only display DriveRight ID's for DriveRight's of the same type. If a DriveRight 600 is connected to your computer, you will only see ID numbers for other DriveRight 600 devices.

4. Click Restore to save the selected settings to the DriveRight unit, or click Cancel to exit without changing the settings.

Back to [DriveRight Menu](#) | [DriveRight Settings](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

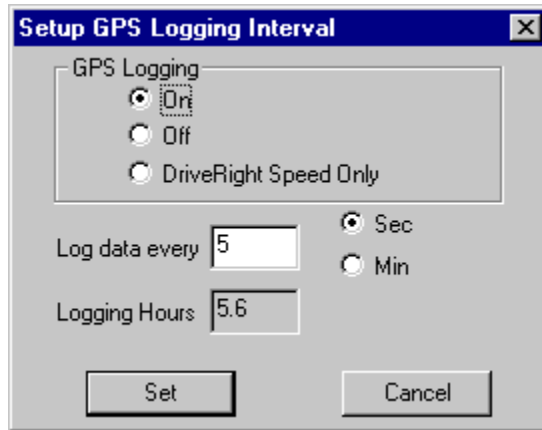
DriveRight Settings: Setup GPS

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](#)

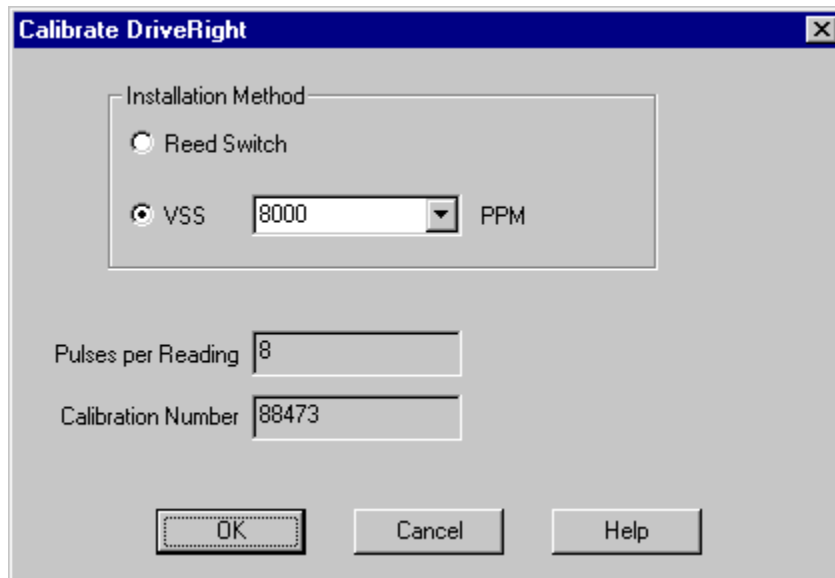
DriveRight Settings: Verify DriveRight Calibration

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.



4. 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.
5. 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.
6. 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.
7. 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](#)

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](#)

Back to [DriveRight Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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](#)

Back to [DriveRight Menu](#)

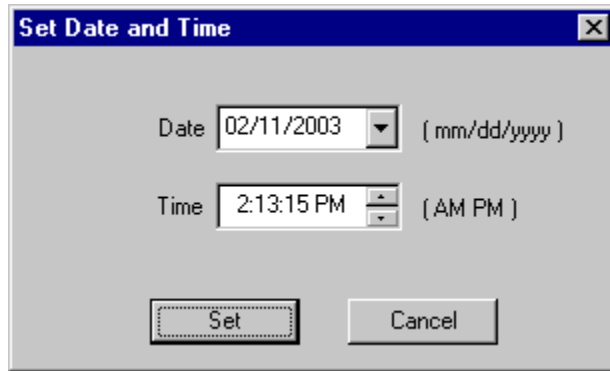
[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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

Back to [DriveRight Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

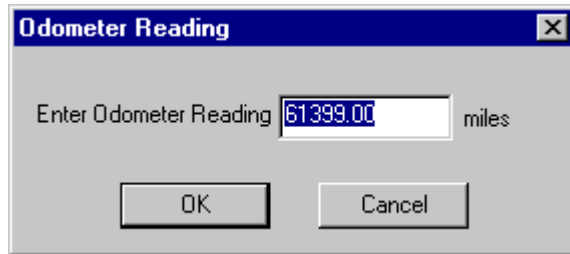
Set Odometer

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

Note: The Odometer can not be set for DriveRight 600E devices. An error displays if Set Odometer is selected when a DriveRight 600E device is connected to the computer.

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.

Back to [DriveRight Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

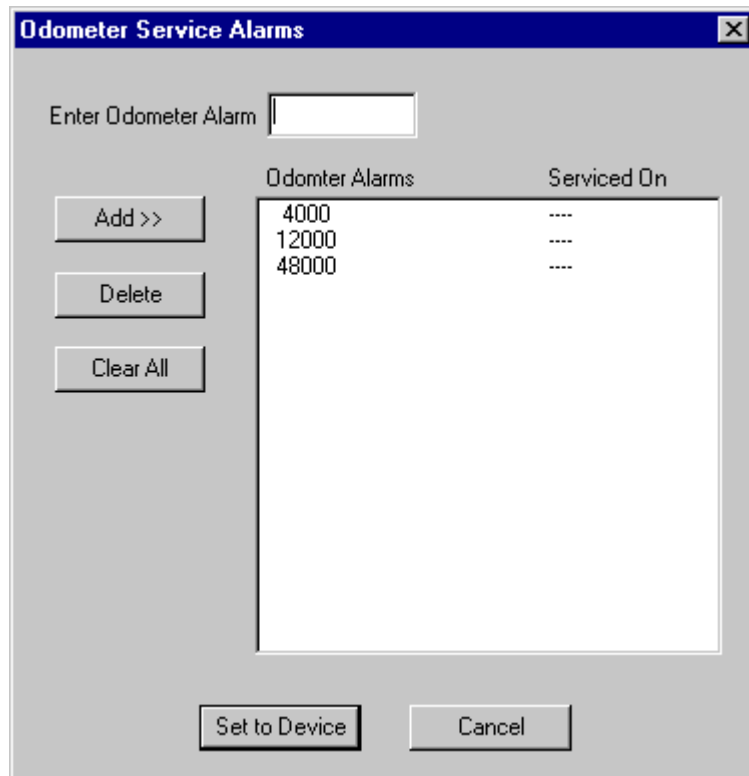
Set Service Alarms

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 **Add>>** to add the service alarm for that odometer reading.
4. Click on an odometer reading to highlight it, then click **Delete** to remove a specific service alarm.
5. Click **Clear All** to remove all service alarms.
6. Click **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.

Back to [DriveRight Menu](#)

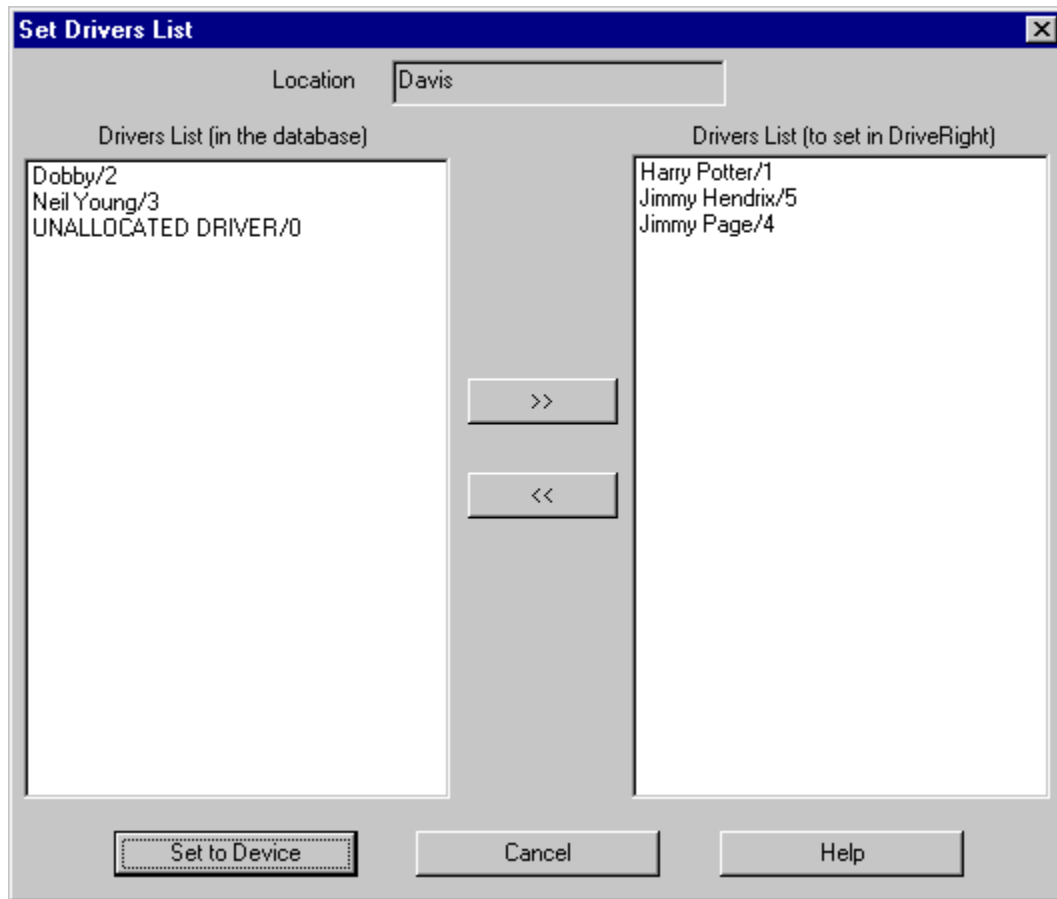
[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Set Drivers List

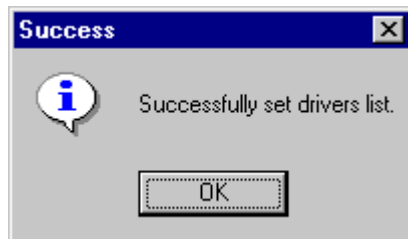
The DriveRight 600 or later device provides a security feature which lets the operator set up to 100 drivers' codes into the device to have access.

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, then click on the right arrows >> to move the driver to the **to set in DriveRight** list.
3. To remove a driver from the **to set in 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 **Set to Device** to update the drivers list on the DriveRight unit or click **Cancel** to exit the dialog box without changing the drivers list.
5. If you click **Set to Device**, the following dialog box displays if the action is successful. Click **OK** or press **Enter** to continue.



Back to [DriveRight Menu](#)

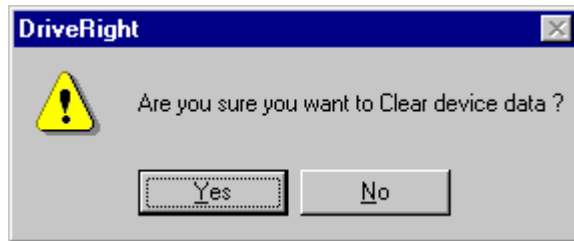
[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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.

Back to [DriveRight Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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](#)

[Set CarChip Alarm](#)

[Set Anomalous Vehicle](#)

[Reset Check Engine Light](#)

[Display CarChip Memory](#)

[Clear CarChip Memory](#)

[Show CarChip Info](#)

Back to [Menu Commands Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Add New CarChip Wizard

DriveRight FMS includes an **Add New CarChip Wizard** to simplify adding CarChips 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:

1. Select **Add New CarChip** from the **CarChip** Menu.

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

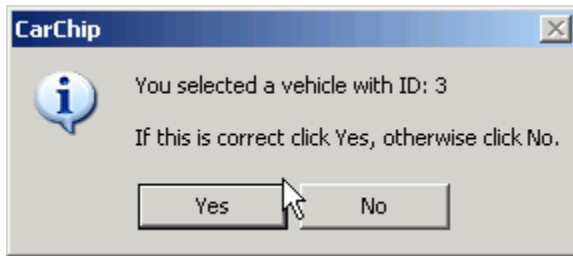
2. The [Add CarChip Wizard - CarChip ID](#) dialog box displays. Assign an ID to the new CarChip by selecting the ID already assigned. You can also change the assigned ID by clicking inside the text box and editing the number, or by clicking on [Browse CarChips](#) to view CarChip IDs in use at the current location and choosing a number not in use.
3. Click **Next** to continue. The [Add CarChip Wizard - Assign](#) dialog box is displayed.
3. After assigning the new 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 new 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, or click **Add New** to add a vehicle to assign to the CarChip.

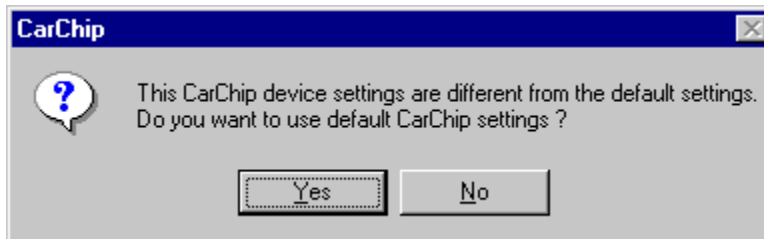
If you are assigning the new CarChip to a driver, the [Drivers Database Table](#) is displayed. Click on a driver record in the database table to highlight it, then click **Select** to assign the CarChip to the selected driver, or click **Add New** to add a driver to assign to the new CarChip.

Note: Each 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 several 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 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.



5. 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 [Set Anomalous Vehicles](#) dialog box displays. Select either **Vehicle with standard OBDII capabilities** or one of the other choices and click **OK** to continue.
8. The [Add CarChip Wizard - Safety Settings](#) dialog box is displayed. This shows the CarChip's speed band, braking, and acceleration thresholds. When you are satisfied with the safety settings, click **Next** to continue.
9. The [Add CarChip Wizard - Parameter/GPS Settings](#) dialog box is displayed. This shows the engine and vehicle performance parameters that CarChip logs and the sample interval rates for each parameter. This dialog box also allows you to turn the GPS Setting on and off for a new CarChip. The GPS Logging feature is available if the CarChip Fleet Pro (# 8246) is connected to your computer. When you are satisfied with the parameter/GPS settings, click **Next** to continue.
10. The [Miscellaneous Settings](#) dialog box is displayed. The **Miscellaneous Settings** dialog box allows you to set the CarChip's alarm volume (for CarChip Models # 8245, 8246 only) and LED Status.

The **Alarm Status** options vary depending on the CarChip model currently connected to your computer. If CarChip Fleet Pro (# 8246) is connected, three different alarm volumes (**High**, **Medium**, **Low**) and the **Disabled** radio buttons are available. If a CarChip Fleet or CarChip Fleet with Alarm (# 8245) is connected, the alarm option is limited to **Medium** and **Disabled**. The Alarm setting only works with CarChip Fleet with Alarm (# 8245) and CarChip Fleet Pro (# 8246).

The **LED Status** is available for all CarChip models. If **Enabled**, the green LED on the CarChip flashes when plugged into a vehicle and flashes continually when the vehicle is running. If **Disabled**, the green LED does not flash while in the vehicle.

Click **OK** to continue.

11. The **Review Settings For New CarChip** dialog box is displayed. This dialog box allows you to review the [Identification](#), [Safety](#), and [Parameter/GPS](#) and [Miscellaneous](#) settings for the new CarChip one last time before you add it to the database.

12. When you are satisfied with the new 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.

13. 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.



14. Click **OK** to continue.

Back to [CarChip Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

CarChip Settings

CarChip Settings

The following commands allow you to view or change the settings on a CarChip:

[View/Set](#)

[Restore](#)

Back to [CarChip Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

CarChip Settings: View/Set

Use the **CarChip Settings: View/Set** feature in the CarChip Menu to quickly view all CarChip settings for the currently connected CarChip, to add a CarChip to the database, or to edit CarChip Settings.

1. Select **CarChip Settings: View/Set** from the **CarChip** Menu. **CarChip Device Settings** dialog box is displayed. The types of settings available for editing depend on the CarChip model currently connected to your computer. If a CarChip Fleet Pro (#8246) is connected, more options are available in the Alarm Status section and the GPS Logging option is enabled.

If a CarChip Fleet (#8241 or 8245) is connected, the options are limited. The GPS option is not available for these models.

CarChip Device Settings

Identification

Company Location:

CarChip ID:

Serial Number:

☐ Vehicle ID:

☒ Driver Name:

Anomalous Vehicles

☒ Vehicle with standard OBDII capabilities

☐ Specific Exceptions:

☐ Specific OBDII Protocols:

Misc Settings

Alarm Status: ☐ High ☒ Medium ☐ Low ☐ Disabled

LED Status: ☒ Enabled ☐ Disabled

Speed Bands

	From (miles/hr)	To (miles/hr)
Speed Band 1	0	45
Speed Band 2	46	60
Speed Band 3	61	70 (Speed Limit)
Speed Band 4	71	

Hard Braking

Hard Braking Threshold: G (Decel Limit)

Extreme Braking Threshold: G

Acceleration

Hard Acceleration Threshold: G (Accel Limit)

Extreme Acceleration Threshold: G

Choose Parameters

	Name	Interval
Parameter 1	Vehicle Speed	1 Seconds
Parameter 2	Engine Speed	5 Seconds
Parameter 3	Coolant Temperature	5 Seconds
Parameter 4		Seconds
Parameter 5		Seconds

GPS Logging

☐ On ☒ Off

Log data every: ☐ Seconds ☐ Minutes

Estimated Logging Time: Hours

2. Edit the default settings for **Hard Braking**, **Acceleration**, and **Speed Bands**.
 - 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. The [Set Anomalous Vehicles](#) dialog box displays. Select either **Vehicle with standard OBDII capabilities** or one of the other choices.
4. Set the default **Alarm Status** for all CarChips. If the CarChip is a CarChip Fleet Pro, you have the choice of three volume settings and disabling the alarm feature. If the CarChip is a CarChip Fleet, you have the choice of **Medium** and **Disabled**.
5. Set the default **LED Status** for all CarChips. If **Enabled**, the green LED on the CarChip flashes when first plugged into a vehicle and flashes continuously when the vehicle is running. If **Disabled**, the green LED does not flash while in the vehicle.
6. Set the Logging Interval for the **Vehicle Speed Parameter** and select up to four other [engine parameters](#). Supported Time intervals range from 1 second to 60 seconds.

7. Determine whether the **GPS** feature is enabled for the CarChip and set the interval at which the GPS data is logged. The GPS Logging feature is available for CarChip Fleet Pro (#8246). Select **On** to turn on the GPS logging feature for the connected CarChip. Select **Off** to turn off the GPS feature for the connected CarChip. A CarChip GPS/Wireless Interface Module (#8251) and GPS Module (#8128) must be installed in a vehicle with each CarChip to log CarChip GPS data.

The **Estimated Logging Time** box lists the approximate number of hours CarChip data can be logged without the CarChip writing over the oldest data stored. The number of hours the CarChip can log depends on the parameters selected, their selected logging intervals, whether or not GPS logging has been enabled and the logging interval for the GPS feature.

8. When you are finished, click **Set** to save any changes. Click **Defaults** to clear all changes and display the original defaults, or click **Close** to exit without saving changes.

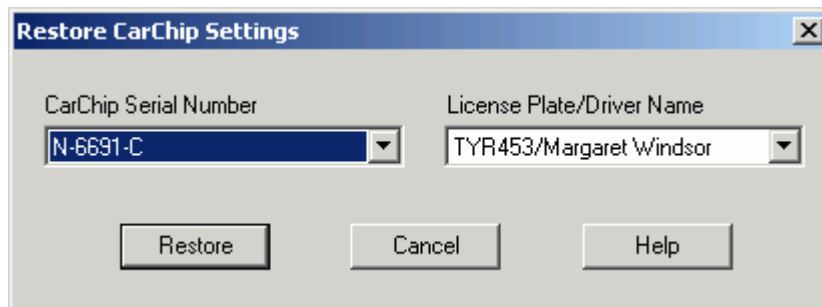
Back to [CarChip Menu](#) | [CarChip Settings](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

CarChip Settings: Restore

Use this command to update the CarChip device using settings stored in the database:

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



2. Select the desired CarChip or License Plate/ Driver Name from the drop down lists.
3. Click Restore to save the selected settings to the CarChip, or click Cancel to exit without changing the settings.

Back to [CarChip Menu](#), [CarChip Settings](#)

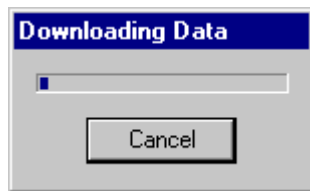
[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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. Select **Download CarChip** from the **CarChip** menu or select the **Download CarChip** icon from the tool bar. The **Downloading Data** dialog box appears.



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

See also:

[Downloading CarChip Guidelines](#)

Back to [CarChip Menu](#)

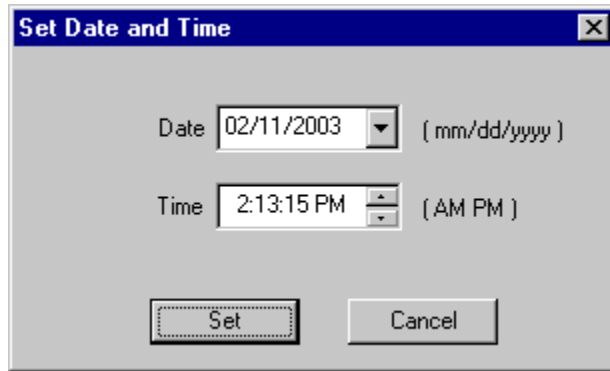
[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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 **Set** to change the time and date on the CarChip device or click on **Cancel** to exit the dialog box without changing the settings.

Back to [CarChip Menu](#)

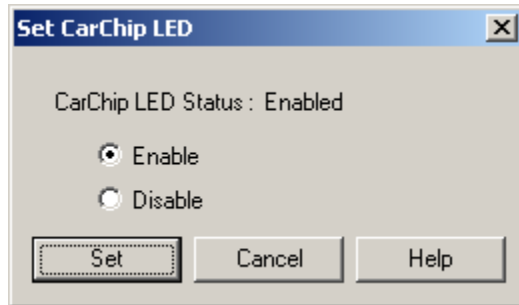
[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Set CarChip LED

Use the **CarChip LED Status** dialog box to view or change the CarChip LED status configuration. If enabled, the green LED on the CarChip flashes when plugged into a vehicle and flashes continually when the vehicle is running. If disabled, the green LED does not flash while in the vehicle.

To change the CarChip Status LED:

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



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.

Back to [CarChip Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

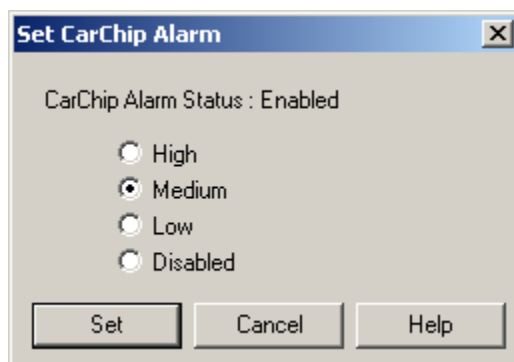
Set CarChip Alarm

Select **Set CarChip Alarm** from the **CarChip** Menu to view or change the CarChip Alarm settings.

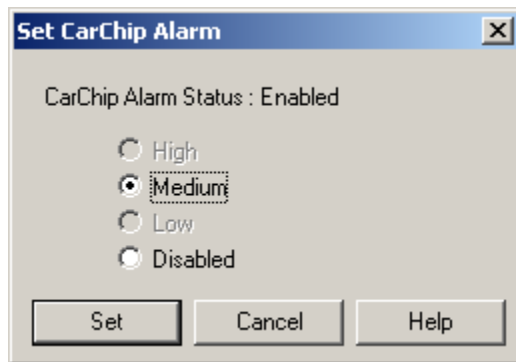
To change the CarChip Alarm Settings:

1. Select **Set CarChip Alarm** from the **CarChip** Menu. The **CarChip Alarm** dialog box alarm status for the CarChip currently connected to your computer.

The Alarm feature options vary depending on the CarChip model currently connected to your computer. If the CarChip Fleet Pro (# 8246) is connected, three different alarm volumes (**High**, **Medium**, **Low**) and the **Disabled** radio buttons are available.



If the CarChip Fleet with Alarm (# 8245) is connected, the Alarm option is limited to **Medium** and **Disabled**.



2. Click on the desired alarm volume or click **Disabled** to disable the alarm.
3. Click **Set** to configure the alarm with the current setting or click **Cancel** to exit without saving the alarm changes.

Back to [CarChip Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

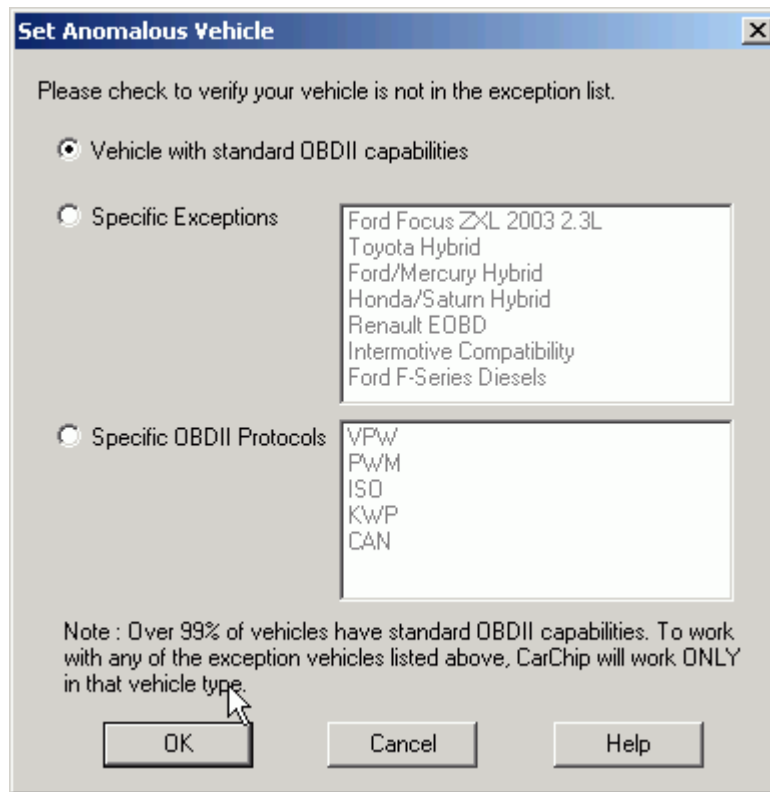
Set Anomalous Vehicle

The **Set Anomalous Vehicle** dialog box lets you configure your CarChip data logger to meet any unique specifications of the OBDII port of your vehicle. This dialog box displays as part of the Add New CarChip Wizard.

Caution: Most vehicles have standard OBDII capabilities. If CarChip is set to work with an exception vehicle or protocol, it will not work with a vehicle that has standard OBDII capabilities.

To select your vehicle:

1. Click **Set Anomalous Vehicles** from the [CarChip Menu](#). The Anomalous Vehicles dialog box displays.



2. If your vehicle is **not** listed on the Specific Exceptions list or you do not want to select a specific protocol, click the **Vehicle with Standard OBDII Capabilities** radio button. If your vehicle **is** listed, click the **Specific Exceptions** radio button and select the vehicle name. Click the **Specific OBDII Protocols** radio button if the specific protocol your vehicle uses is on the list.
3. Click **OK** to save the anomalous vehicle information, or click Cancel to exit the dialog box without saving the information.

The Specific Vehicle Exceptions include:

- **Ford Focus ZXL2003 2.3L**
- **Toyota Hybrid**
- **Ford/Mercury Hybrid**
- **Honda/Saturn Hybrid**
- **Renault EOBD** (Available in CarChip data loggers with firmware version 3.12 or later, Fleet Management Software 3.9.3 or later.)
- **Intermotive Capability Vehicles** (Available in CarChip data loggers with firmware version 3.12 or later, Fleet Management Software version 3.9.3 or later.)
- **Ford F-Series Diesels** (Available in CarChip data loggers with firmware version 3.18 or later, Fleet Management Software version 3.9.3 or later.)

The OBDII Protocols include:

- **VPW (J1850-10.4)** - Protocol used in some Chrysler, Buick, Chevy, Dodge, GMC, GM, Isuzu, Jeep, Mercury, Oldsmobile, Pontiac, and Saturn vehicles from 1996 to 2004.
- **PWM (J1850-41.6)** - Protocol used in most Ford vehicles from 1996 to 2006.
- **ISO (ISO9141)** - Protocol used in some Volkswagen, Porsche, Volvo, Toyota, Subaru, Nissan, Infinity, Mercedes Benz, Mazda, Landrover, and Kia vehicles from 1996 to 2004.
- **KWP (KWP2000, ISO14230)** - Protocol used in some BMW, Audi, Porsche, Suzuki, Subaru, and Volkswagen vehicles 2003 and earlier.
- **CAN (Control Area Network ISO 11898)** - Protocol used for most vehicles 2004 and later.

The specific OBDII Protocols list is available for CarChip data loggers with firmware version 3.12, 3.18 or later in Fleet Management Software version 3.9.3 or later. See the CarChip web site for more information on updated CarChip firmware.

If your vehicle is not listed in the Specific Vehicle Exceptions, but are seeing odd behavior, it may be that CarChip is trying to initialize a protocol that your vehicle does not use. When CarChip is first connected to a vehicle, it cycles through the list of protocols to find the protocol the vehicle is using. If a protocol is selected from the list, the next time CarChip is placed in that vehicle, the selected protocol will be used. Do not select a specific protocol if you do not know your vehicle's protocol. Contact [Technical Support](#) for assistance in selecting a specific protocol if you are uncertain.

Back to [CarChip Menu](#)

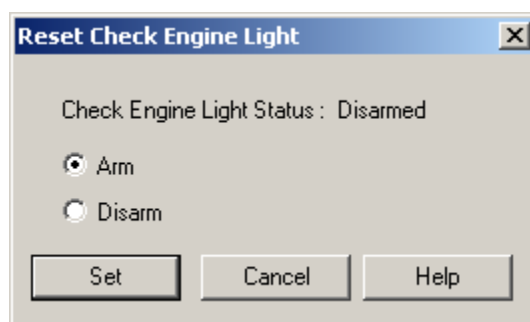
[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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. Click **Disarm** if you wish to turn off the CarChip Alarm.
3. Click **Set** to configure the alarm with the current setting or click **Cancel** to exit.

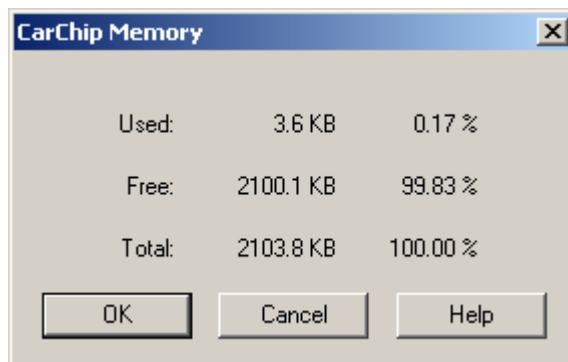
Back to [CarChip Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Display CarChip Memory

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

1. Select **Display CarChip Memory** from the **CarChip** Menu. The **CarChip Memory** dialog box displays.



2. Click **OK** or **Cancel** 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.

Back to [CarChip Menu](#)

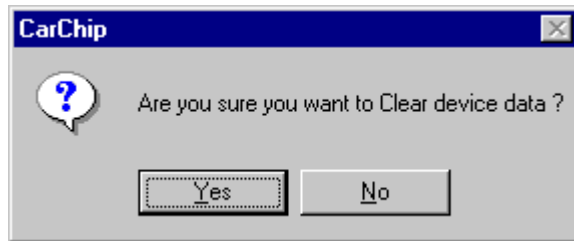
[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

SmartCard Menu

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 SmartCard 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](#)

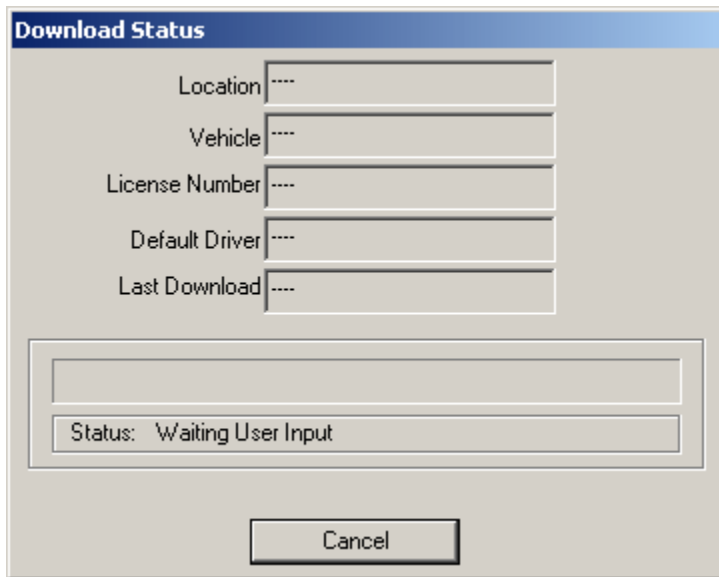
SmartCard Download

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.



The image shows a 'Download Status' dialog box. It has a title bar with the text 'Download Status'. Inside the dialog, there are five labels with corresponding input fields: 'Location', 'Vehicle', 'License Number', 'Default Driver', and 'Last Download'. Each input field contains four asterisks '----'. Below these fields is a larger rectangular area containing a status message: 'Status: Waiting User Input'. At the bottom of the dialog is a 'Cancel' button.

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.

Back to [SmartCard Menu](#) | [Menu Commands](#)

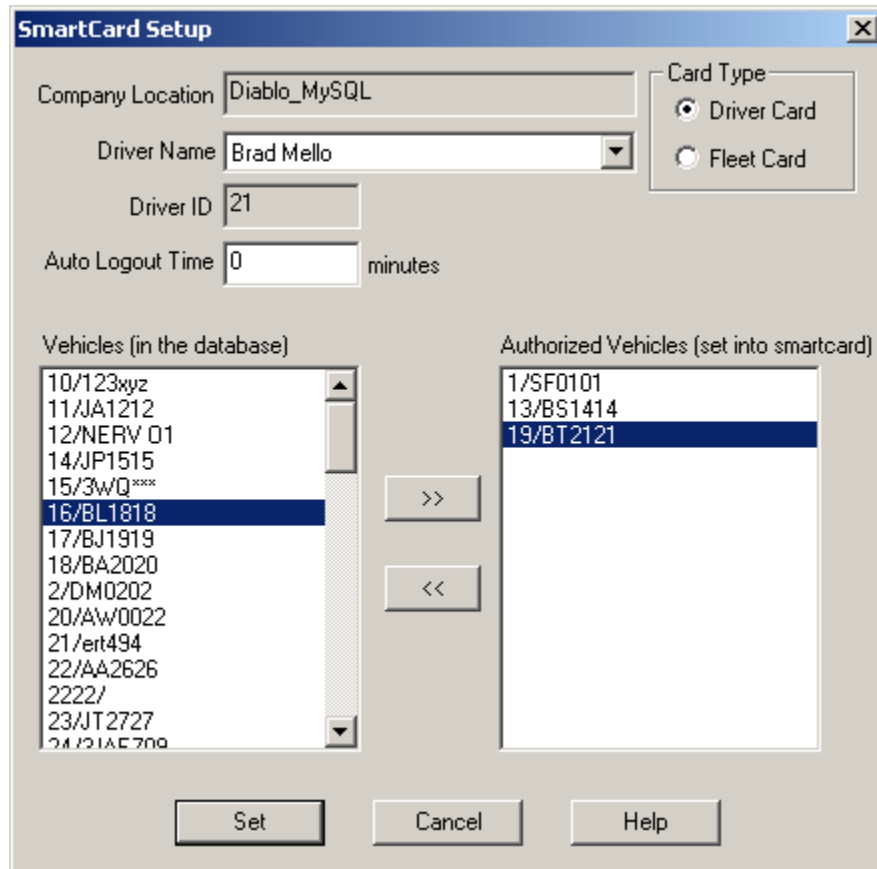
[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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.



The **SmartCard Setup** dialog box contains the following fields and controls:

- Company Location:** Text field with value "Diablo_MySQL".
- Driver Name:** Dropdown menu with value "Brad Mello".
- Driver ID:** Text field with value "21".
- Auto Logout Time:** Text field with value "0" and the unit "minutes".
- Card Type:** Radio buttons for "Driver Card" (selected) and "Fleet Card".
- Vehicles (in the database):** A list box containing the following vehicle IDs:
 - 10/123xyz
 - 11/JA1212
 - 12/NERV 01
 - 14/JP1515
 - 15/3WQ***
 - 16/BL1818 (highlighted)
 - 17/BJ1919
 - 18/BA2020
 - 2/DM0202
 - 20/AW0022
 - 21/ert494
 - 22/AA2626
 - 2222/
 - 23/JT 2727
 - 24/21AC 700
- Authorized Vehicles (set into smartcard):** A list box containing the following vehicle IDs:
 - 1/SF0101
 - 13/BS1414
 - 19/BT2121 (highlighted)
- Navigation:** ">>" and "<<" buttons between the vehicle lists.
- Buttons:** "Set", "Cancel", and "Help" buttons at the bottom.

3. Select the **Driver Card** radio button if this card will be assigned to an individual driver or select **Fleet Card** 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 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 <<.
7. Click **Set** to program the new SmartCard with this information or click cancel to exit without saving the new information to the SmartCard.

Back to [SmartCard Menu](#) | [Menu Commands](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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.

Review Settings For SmartCard

Identification | Calibration | Units | Safety Settings | Timer Settings | Alarm Settings | Security Settings | GPS Settings

Company Location:

DriveRight Type:

DriveRight ID:

Vehicle ID:

Default Driver:

3. Select a tab to view or edit the following default settings:
 - [Identification Settings](#): Select the DriveRight ID and Driver associated with the card.
 - [Calibration Settings](#): 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 and 600E units with GPS modules.
4. When you are finished, click **OK** to save any changes or click **Cancel** to exit without saving changes.

Back to [Transfer to DriveRight](#) | [SmartCard Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Identification Settings - SmartCard

Use this command to identify the DriveRight device receiving the new settings from the SmartCard. The Identification 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.

The screenshot shows a window titled "Review Settings For SmartCard". It has a tabbed interface with the following tabs: Identification, Calibration, Units, Safety Settings, Timer Settings, Alarm Settings, Security Settings, and GPS Settings. The "Identification" tab is active. Inside the tab, there are five input fields: "Company Location" with the text "USA", "DriveRight Type" with a dropdown menu showing "DriveRight 600", "DriveRight ID" with an empty text box, "Vehicle ID" with a dropdown menu, and "Default Driver" with an empty text box. At the bottom of the window, there are three buttons: "Set", "Cancel", and "Help".

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

The screenshot shows the 'Review Settings For SmartCard' dialog box with the 'Calibration' tab selected. The dialog has a title bar with a close button. Below the title bar is a tabbed interface with tabs for Identification, Calibration, Units, Safety Settings, Timer Settings, Alarm Settings, Security Settings, and GPS Settings. The 'Calibration' tab is active, displaying the 'Installation Method' group box with three radio buttons: 'OBD Adapter', 'Reed Switch', and 'VSS'. The 'VSS' option is selected, and next to it is a dropdown menu currently showing 'PPM'. Below the 'Installation Method' group box are two text input fields: 'Pulses per Reading' and 'Calibration Number'. At the bottom of the dialog are three buttons: 'Set', 'Cancel', and 'Help'.

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](#)

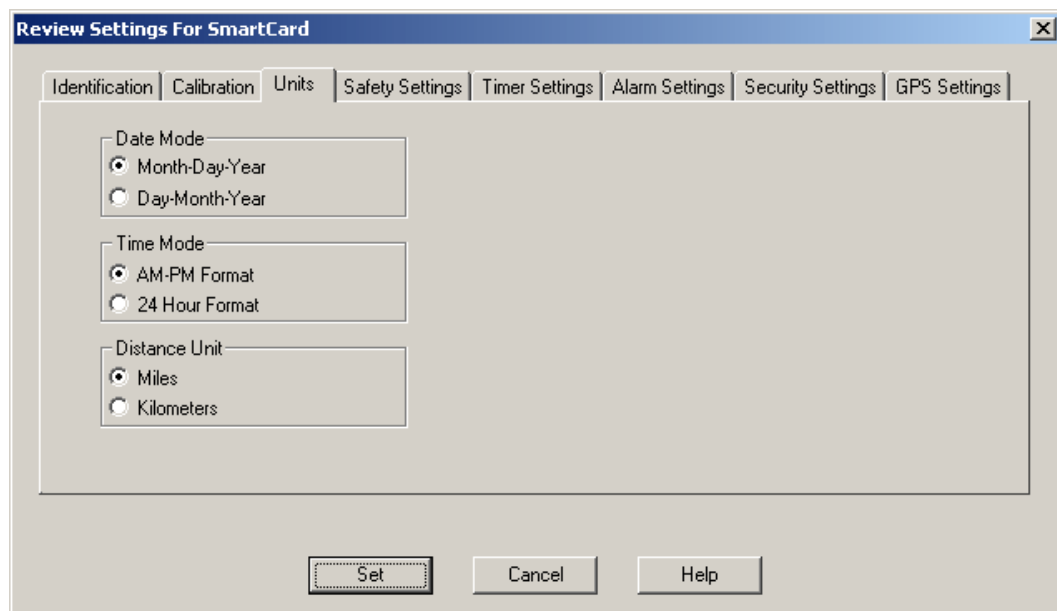
[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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.
 - o Date Mode settings control the way month, day, and year are displayed.
 - o Time Mode settings control the time of day display.
 - o 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](#)

[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 SmartCard.

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.

Review Settings For SmartCard

Identification | Calibration | Units | Safety Settings | **Timer Settings** | Alarm Settings | Security Settings | GPS Settings

Stop Time
Trip Stop Time : 10 minutes
Note : A DriveRight will end a trip when this time has expired

Logout Time
Driver ID Logout Time : 2 minutes
Note : A DriveRight will automatically log out a Driver ID when this time has expired. If the Logout Time is set to 0 minutes, then the DriveRight will never log the driver out.

Set Cancel Help

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](#)

Back to [Transfer to DriveRight](#) | [SmartCard Menu](#)

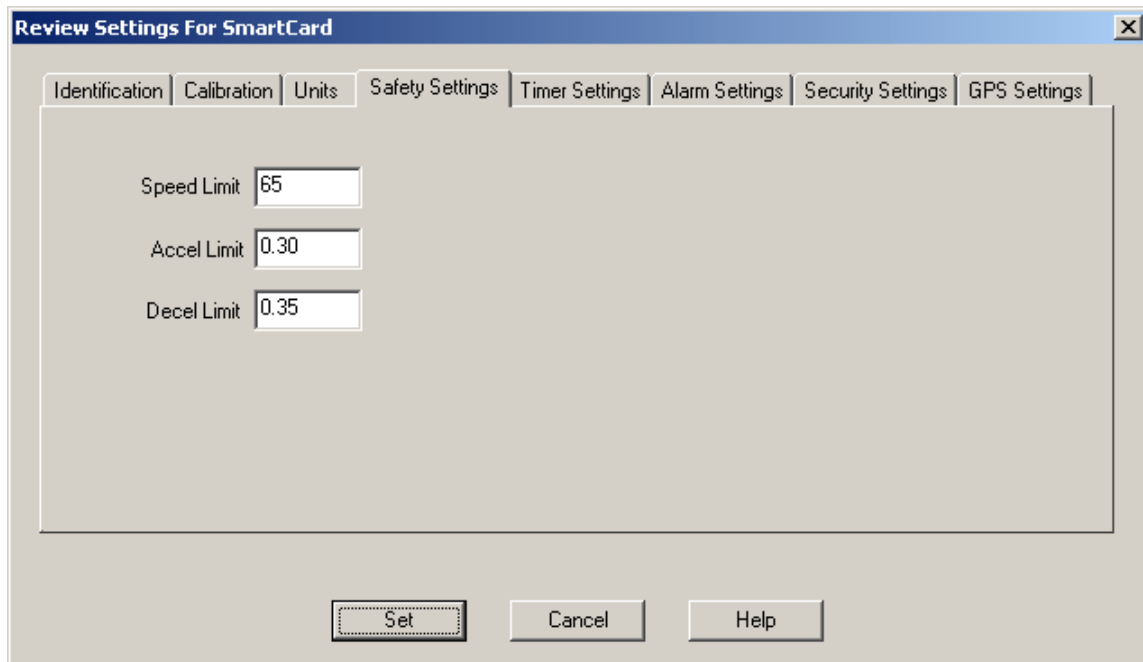
[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Safety Settings - SmartCard

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

To set safety 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](#)

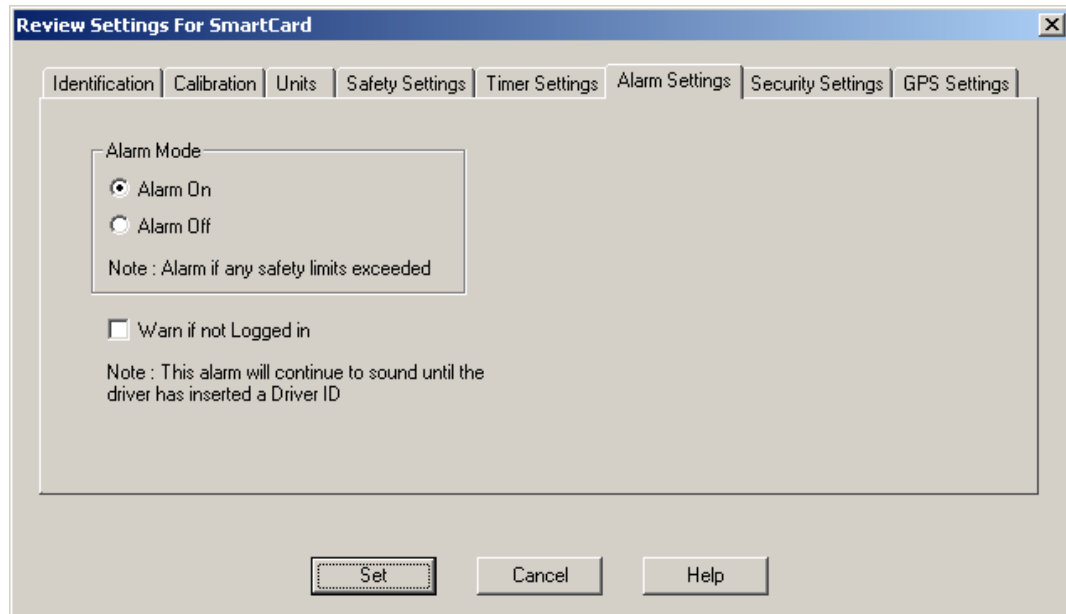
[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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.

Review Settings For SmartCard

Identification | Calibration | Units | Safety Settings | Timer Settings | Alarm Settings | **Security Settings** | GPS Settings

Pin Code

Security PIN Code :

Note : This code is necessary to enable a manager to set calibration and alarm settings

Tamper Indicator

☐ Enable tamper indicator. (600 & 600E Only)

Note : The tamper indicator will illuminate if this option is selected

☐ Disable Login on Console (600E Only)

If this option is selected, drivers must use their SmartCards to login

Set Cancel Help

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. If desired, you can disable Login from the console so that a driver can log into the device using only the SmartCard. Check the **Disable Login on Console** box to disable console Login. This application is available for DriveRight 600E devices only.
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 DriveRight settings.

See Also:

[Identification Settings](#)

[Calibration Settings](#)

[Unit Settings](#)

[Safety Settings](#)

[Timer Settings](#)

[Alarm Settings](#)

[GPS Settings](#)

Back to [Transfer to DriveRight](#) | [SmartCard Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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.

The screenshot shows a dialog box titled "Review Settings For SmartCard" with a close button (X) in the top right corner. The dialog has several tabs: Identification, Calibration, Units, Safety Settings, Timer Settings, Alarm Settings, Security Settings, and GPS Settings. The GPS Settings tab is currently selected. Inside this tab, there is a section labeled "GPS Logging" containing three radio buttons: "On" (which is selected), "Off", and "DriveRight Speed Only". Below this section, there are two input fields: "Log data every" with a value of "30" and "Logging Hours" with a value of "33.3". To the right of the "Log data every" field are two radio buttons: "Sec" (selected) and "Min". At the bottom of the dialog, there are three buttons: "Set", "Cancel", and "Help".

4. Click **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](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

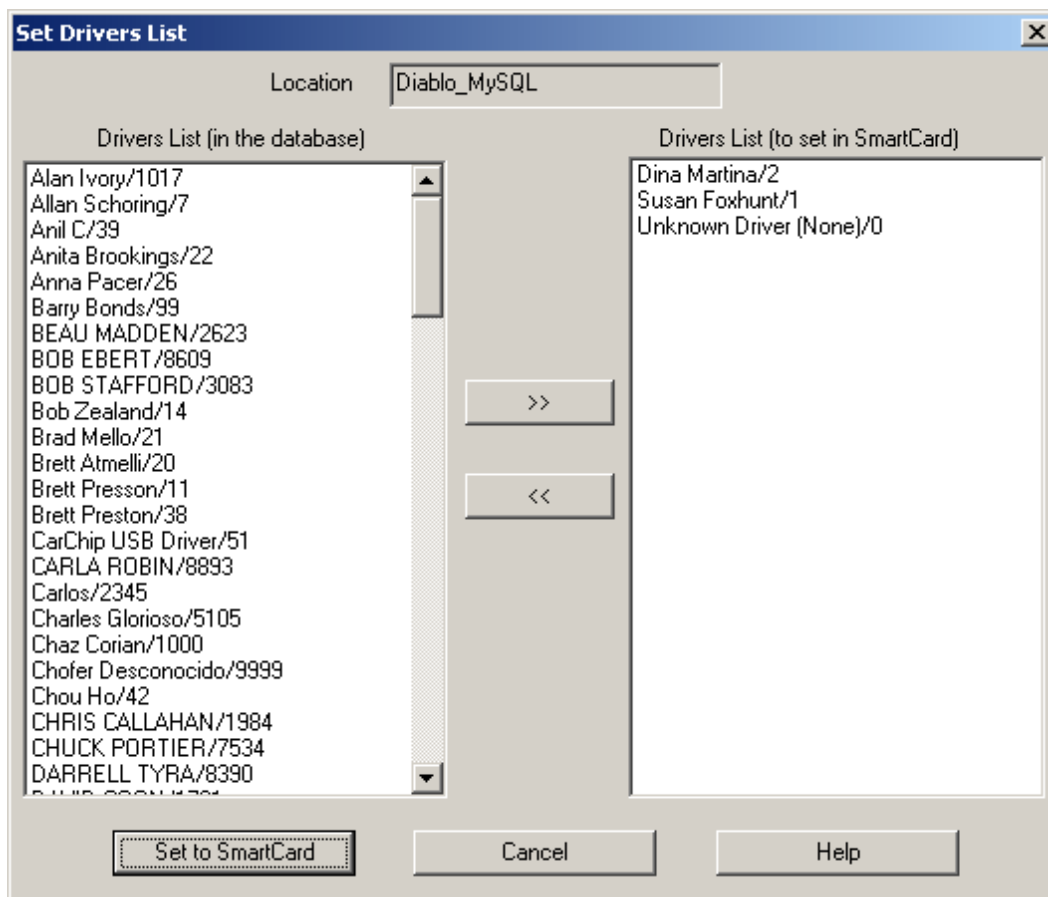
Drivers List

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.

Back to [Transfer to DriveRight](#) | [SmartCard Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

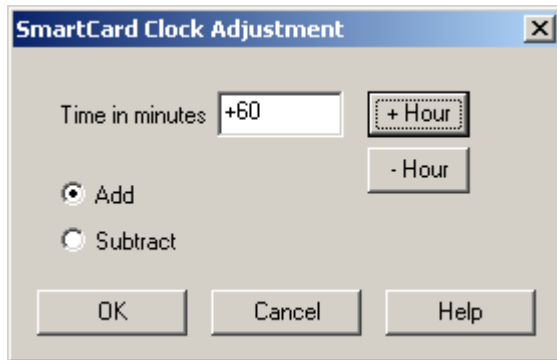
Clock Adjustment

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 clock 1 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.

Back to [Transfer to DriveRight](#) | [SmartCard Menu](#)

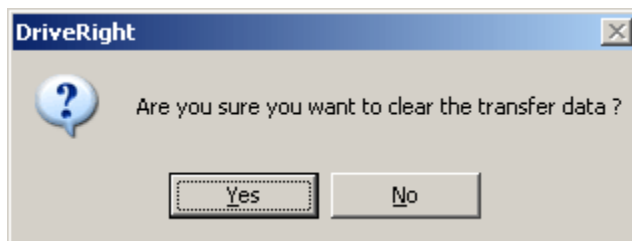
[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

SmartCard Clear Transfer Data

The Clear Transfer Data dialog box allows you to clear all of the settings and transfer information you stored on the SmartCard.

To clear the transfer data:

1. Select **Clear Transfer Data** from the **SmartCard Menu**. The **Clear Transfer Data** dialog box is displayed:



2. Click **Yes** to clear the transfer data or **No** to exit the dialog box without clearing the data.

Back to [SmartCard Menu](#) | [Menu Commands](#)

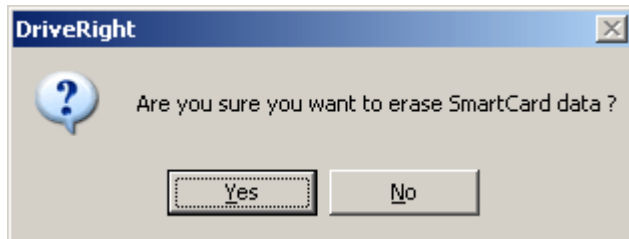
[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

SmartCard Erase

The Erase dialog box allows you to erase all the stored information on your SmartCard.

To erase the SmartCard:

1. Select **Erase** from the **SmartCard** Menu. The **Erase** dialog box is displayed:



2. Click **Yes** to erase the SmartCard or **No** to exit the dialog box without erasing the SmartCard.

Back to [SmartCard Menu](#) | [Menu Commands](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Wireless Menu

Wireless Menu

The Wireless Menu contains commands for configuring wireless devices, controlling the wireless communication and downloading features for the Wireless Download System. These new features, along with the Base Station (# 8130), Wireless On-Board Module (# 8129), and the Configuration Cable for Wireless On-Board Module (# 8131) give your fleet the ability to download data directly from the DriveRight devices to FMS without physically removing the DriveRight devices from the vehicle. The data moves wirelessly from the vehicle to FMS.

Note: Before using the Wireless Download feature, the Base Station(s) and Wireless On-Board Module(s) must be configured using FMS. See the *Base Station Installation Manual* and *Configuration Cable for Wireless On-Board Module Installation Manual* for more information.

The following **Wireless** Menu commands are available:

[Add New Base Station](#)

[Add New Wireless On-Board Module](#)

[Scan Wireless On-Board Modules](#)

[Setup Automatic Wireless Download](#)

[Start Manual Wireless Download](#)

[Upgrade Firmware](#)

[Select Operating Region](#)

Back to [Menu Commands](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Add New Base Station

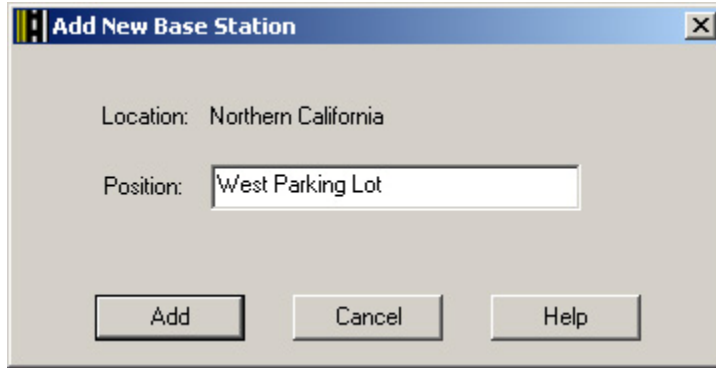
The **Add New Base Station** dialog box configures the Base Station to wirelessly communicate with Wireless On-Board Modules and allows you to assign a position to it that makes it easily identifiable throughout FMS.

To add a new Base Station:

1. Connect your Base Station to the computer's USB port.
2. Select **Add New Base Station** from the **Wireless** Menu. If this is the first time a Base Station or Wireless On-Board Module has been added to FMS, the **Select Operating Region** dialog box displays.



3. Select among the three choices displayed: **North America**, **Europe**, or **Other**. The operating region determines the power level of the wireless devices. Select **Europe** if the power levels of the wireless devices must not exceed CE certification requirements of less than 10 dBm. Select **North America** if the power levels of the wireless devices must not exceed FCC or IC certification requirements of less than 30 dBm. Select **Other** if the operating region is not North America or Europe.
4. Click **OK** to save the operating region information or click **Cancel** to exit without saving. The **Add New Base Station** dialog box displays.



The dialog box displays the location and the **Position** text field. If the Base Station belongs to a different location, select the correct location from the [Current Location](#) dialog box before adding the Base Station.

5. Enter a position description in the **Position** text box. The maximum number of characters for the **Position** text box is 32.
6. Click **Add** to add the new Base Station or **Cancel** to exit the dialog box without saving the new Base Station.

If you clicked **Add**, a dialog box is displayed to confirm that the Base Station has been added to FMS.



7. Click **OK** to exit the dialog box.

See Also:

[How to Add a Base Station](#)

Back to [Wireless Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Add New Wireless On-Board Module

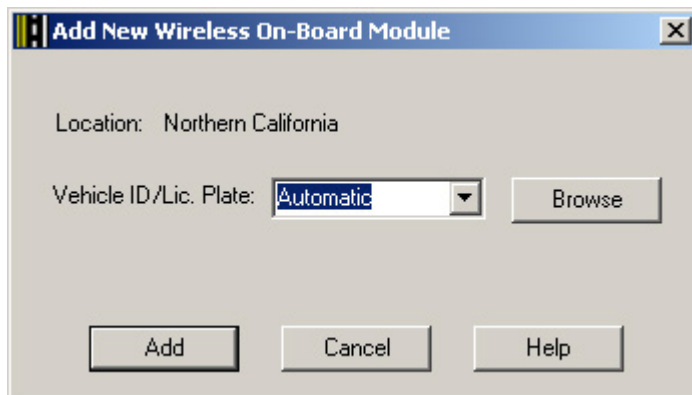
To add a new Wireless On-Board Module:

1. Use the Configuration Cable to connect the Wireless On-Board Module to your computer.
2. Select **Add New Wireless On-Board Module** from the **Wireless** Menu.

If this is the first time a Base Station or Wireless On-Board Module has been added to FMS, the **Select Operating Region** dialog box displays.



3. Select among the three choices displayed: **North America**, **Europe**, or **Other**. The operating region determines the power level of the wireless devices. Select **Europe** if the power levels of the wireless devices must not exceed CE certification requirements of less than 10 dBm. Select **North America** if the power levels of the wireless devices must not exceed FCC or IC certification requirements of less than 30 dBm. Select **Other** if the operating region is not North America or Europe. Once an operating region has been selected, the **Add New Wireless On-Board Module** dialog box displays.

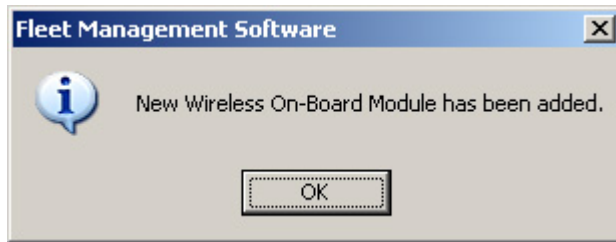


The dialog box displays the location the Wireless On-Board Module belongs to and the **Vehicle ID/Lic. Plate** drop-down list box.

4. Select a Vehicle ID or license plate number from the **Vehicle ID/Lic Plate** drop-down list box, or select **Automatic**. Selecting a Vehicle ID or License plate from the drop down list assigns the Wireless On-Board Module to that vehicle. Click **Browse** to display the [Vehicles](#) database table. Review the full list of available vehicles to better determine the vehicle that gets assigned to the Wireless On-Board Module. Select **Automatic** if you do not want to select a vehicle at this time. The next time either [Scan Wireless On-Board Modules](#) or [Start Manual Wireless Download](#) is selected, or an [Automatic Wireless Download](#) has occurred, the correct Vehicle ID will be assigned to the Wireless On-Board Module based on the vehicle information stored on the DriveRight or CarChip device.
5. Click **Add** to add the new Wireless On-Board Module or **Cancel** to exit the dialog box without saving the new Wireless On-Board Module.

If you clicked **Add**, the **New Wireless On-Board Module** dialog box displays, confirming that the Wireless On-Board Module has been added to the FMS database and is

configured for use with your wireless fleet.



6. Click **OK** to exit the dialog box.

Once the Wireless On-Board Module has been added to the FMS database, it can be installed in its assigned vehicle or any vehicle in your fleet if you selected **Automatic** in the **Vehicle ID/Lic Plate** drop-down list box. See the **GPS/Wireless System Installation Manual** for more information on its installation and proper usage.

Note: The Wireless On-Board Module should only be installed to its assigned vehicle unless **Automatic** is selected when adding the module.

Back to [Wireless Menu](#)

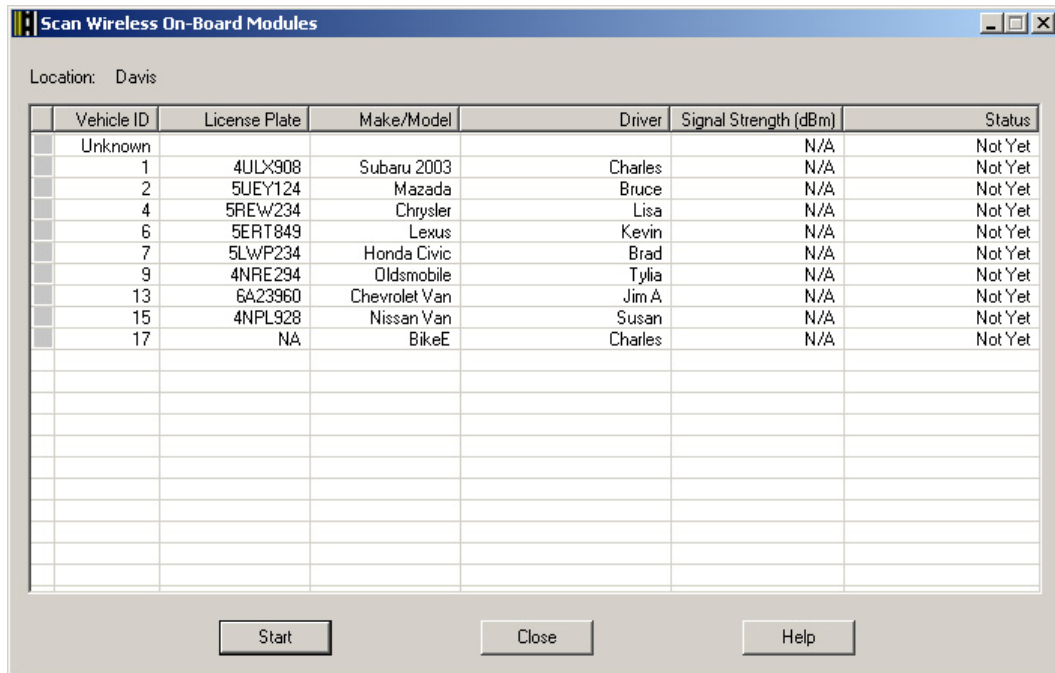
[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Scan Wireless On-Board Modules

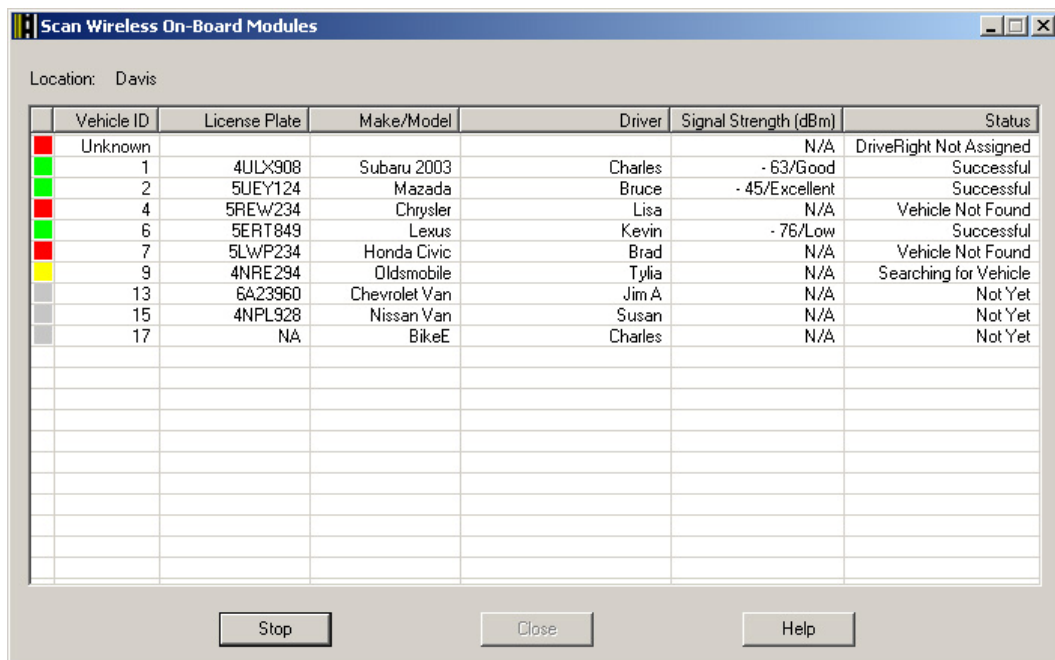
The **Scan Wireless On-Board Modules** dialog box uses the Base Station(s) to scan all of the Wireless On-Board Modules in the current location and displays the wireless communication status of each Wireless On-Board Module.

Note: At the top of each hour, the Wireless On-Board Module is turned off by the DriveRight or Carchip device for up to five minutes. This is done to allow the DriveRight or CarChip to turn on the GPS module to refresh the satellite position periodically. This occurs even without a GPS module being physically connected to your DriveRight or Carchip device. FMS will not be able to communicate with the Wireless On-Board Module(s) during this time.

1. Select **Scan Wireless On-Board Modules** from the **Wireless** Menu. The **Scan Wireless On-Board Modules** displays a list of all the Wireless On-Board Modules in your database associated with the currently selected location.



- Click **Start** to scan all of the Wireless On-Board Modules. As the Base Station scans for the Wireless On-Board Modules, the status of each of the modules displays under the Status column.



The color box provides a visual representation of the status for each of the Wireless On-Board Modules in the database. The color is updated throughout the scan process. The **Status** column on the right hand side of the dialog box also documents the status for each module. The possible statuses are:

- **Not Yet** - The Base Station has not yet scanned for the Wireless On-Board Module.
 - **Searching for Vehicle** - The Base Station is currently searching for the Wireless On-Board module.
 - **Successful** - The Base Station has successfully found and communicated with Wireless On-Board Module.
 - **Failed** - The Base Station has not successfully communicated with or found errors in communicating with the Wireless On-Board Module. The scan will continue to search for the "Failed" Wireless On-Board Modules until the maximum of 10 retries has been reached. The following is a status list that corresponds to the red color box:
 - **Vehicle ID Mismatch** - The Wireless On-Board Module is not installed in the assigned vehicle. To correct this problem, select the Wireless On-Board Module's record in the [Wireless Devices](#) database table and click **Edit**. The **Edit Wireless On-Board Module** dialog box displays information about the On-Board Module. Change the Vehicle ID field of the Wireless On-Board Module to **Automatic** to allow FMS to find the Vehicle's ID automatically. You can also install the Wireless On-Board Module into the assigned vehicle.
 - **Device Not Assigned** - The DriveRight has not been assigned to a vehicle, the CarChip has not been assigned to a vehicle or a driver, or the DriveRight or CarChip has not been added to the FMS Database. [Add the DriveRight](#) or [CarChip](#) and assign it to the [corresponding vehicle](#) or [driver](#).
 - **Device Not Available** - FMS is able to communicate with the Wireless On-Board module, but is not able to get a response from the device (DriveRight or CarChip) which is connected to the Wireless On-Board Module. Try to restore power to the device or reconnect the device to fix the problem.
 - **Vehicle Not Found** - The Vehicle and Wireless On-Board Module are not within range of the Base Station. This status also occurs when there is an error communicating with the DriveRight or CarChip device. See [Wireless Device Communication Problems](#) for more information.
3. Click **Stop** to abort the scan before it is completed or click **Close** to close the dialog box once the scan has completed. Please note that if you stop scanning before it completes the scan, the last vehicle it scans automatically contains a failed status.

Note: Since it is not required to select a vehicle when adding a new Wireless On-Board Module, Unknown is displayed under the Vehicle ID column to indicate that a vehicle has not been assigned to a Wireless On-Board Module.

Back to [Wireless Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Setup Automatic Wireless Download

The **Setup Automatic Wireless Download** dialog box lets you select when to automatically download some or all vehicles that are wirelessly connected to FMS.

Note: FMS has to be running for the Automatic Wireless Download to occur.

1. Select **Setup Automatic Wireless Download** from the **Wireless** Menu. The **Setup Automatic Wireless Download** dialog box lets you select the vehicles you want to automatically download daily.

By default, a vehicle associated with a newly added Wireless On-Board Module is automatically placed in the **Vehicles in Download Queue** list. This also applies to "Unknown" vehicles.

Location: Davis

Available Vehicles:

VehicleID	License Plate	Driver
Unknown		
9	4NRE294	Tylia
17	NA	Charles

Vehicles in Download Queue:

VehicleID	License Plate	Driver
7	5LWP234	Brad
1	4ULX908	Charles
2	5UEY124	Bruce
4	5REW234	Lisa
6	5ERT849	Kevin
13	6A23960	Jim A
15	4NPL928	Susan

Start Time: 6:00:00 AM

Duration: 4 Hours

☒ Include Weekend

OK Cancel Help

The **Available Vehicles** list shows all available vehicles for the [current location](#). The **Vehicles in the Download Queue** list shows the vehicles selected for automatic wireless download.

2. Click **>>**, **All>>**, **<<**, or **All<<** to move the vehicles between these two lists.
3. Enter the time FMS will begin the automatic download process in the **Start Time** box or click the **Up** or **Down** arrow buttons to change the start time. The default time is 6:00 PM.
4. Enter the amount of time you would like FMS to search for the selected vehicles in the **Duration** box or click the **Up** or **Down** arrow buttons to increment or decrement the hours. The duration allows you to prolong the time for retries when the Wireless On-Board Modules are not immediately available for download, because they are either out of range or currently powered off.
5. Check the **Include Weekend** box to automatically download all seven days of the week. "Weekend" is defined in the [Night and Weekend Settings](#) dialog box. If the start time selected in this dialog box falls within the "weekend" time frame selected in the **Night and Weekend Settings** dialog box, download will not take place during the day or days included in the "weekend" definition unless the **Include Weekend** box is checked.

- Click **OK** to save the automatic wireless download settings and prepare FMS to automatically download the Wireless On-Board Modules or click **Cancel** to exit without saving.

Note: Since it is not required to select a vehicle when adding a new Wireless On-Board Module, Unknown is displayed under the Vehicle ID column to indicate that a vehicle has not been assigned to a Wireless On-Board Module.

Note: Only one wireless download process is allowed at a time. If an automatic download is scheduled during a manual download, the automatic download will be delayed until the manual download is completed. If the duration period for the Automatic Download has expired before the manual download has finished, Automatic Download will not take place for that day.

Note: Use the [Night and Weekend Settings](#) dialog box to enter the night and weekend definitions used when you select the **Include Weekend** checkbox.

Back to [Wireless Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Start Manual Wireless Download

Different from the [Automatic Wireless Download](#), The **Start Manual Wireless Download** dialog box lets you select some or all vehicles in your fleet to wirelessly download immediately once you press **Start Download**.

- Select **Start Manual Wireless Download** from the **Wireless** Menu or click the *Manual Wireless Download Icon* from the toolbar. The **Start Manual Wireless Download** dialog box lets you select the vehicles you want to download at this time.

Manual Wireless Download

Location: Davis

Available Vehicles:

VehicleID	License Plate	Driver
Unknown		
6	5ERT849	Kevin
9	4NRE294	Tylia
17	NA	Charles
4	5REW234	Lisa

Vehicles in Download Queue:

VehicleID	License Plate	Driver
1	4ULX908	Charles
2	5UEY124	Bruce
7	5LWP234	Brad
13	6A23960	Jim A
15	4NPL928	Susan

Duration: 4 Hours

Start Download Cancel Help

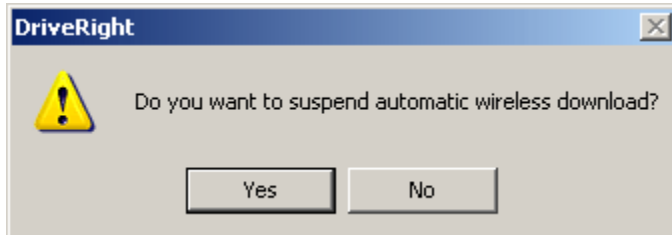
The **Available Vehicles** list shows all available vehicles for the displayed location. The **Vehicles in the Download Queue** list shows the vehicles selected for manual wireless download.

2. Click **>>**, **All>>**, **<<**, or **All<<** to move the vehicles between these two lists.
3. Enter the amount of time you would like FMS to search for the selected vehicles in the **Duration** box or click the **Up** or **Down** arrow buttons to increment or decrement the hours. The duration allows you to prolong the time for retries when the Wireless On-Board Modules are not immediately available for download, because they are either out of range or currently powered off.
4. Click **Start Download** to start the download or click **Cancel** to cancel the manual download.

The [Wireless Download Status](#) dialog box displays when you click **Start Download**.

Note: Since it is not required to select a vehicle when adding a new Wireless On-Board Module, Unknown is displayed under the Vehicle ID column to indicate that a vehicle has not been assigned to a Wireless On-Board Module.

Note: Only one wireless download process is allowed at a time. If you select Start Manual Wireless Download from the Wireless Menu while an automatic wireless download is in progress or the [Wireless Download Status](#) dialog box is currently displaying, the *Do You Want to Suspend Automatic Wireless Download* dialog box displays. If you click **Yes**, the Automatic Download will be suspended until the manual download is completed. If the duration period for the Automatic Download expires before the manual download has finished, Automatic Download will not take place for that day.



Back to [Wireless Menu](#)

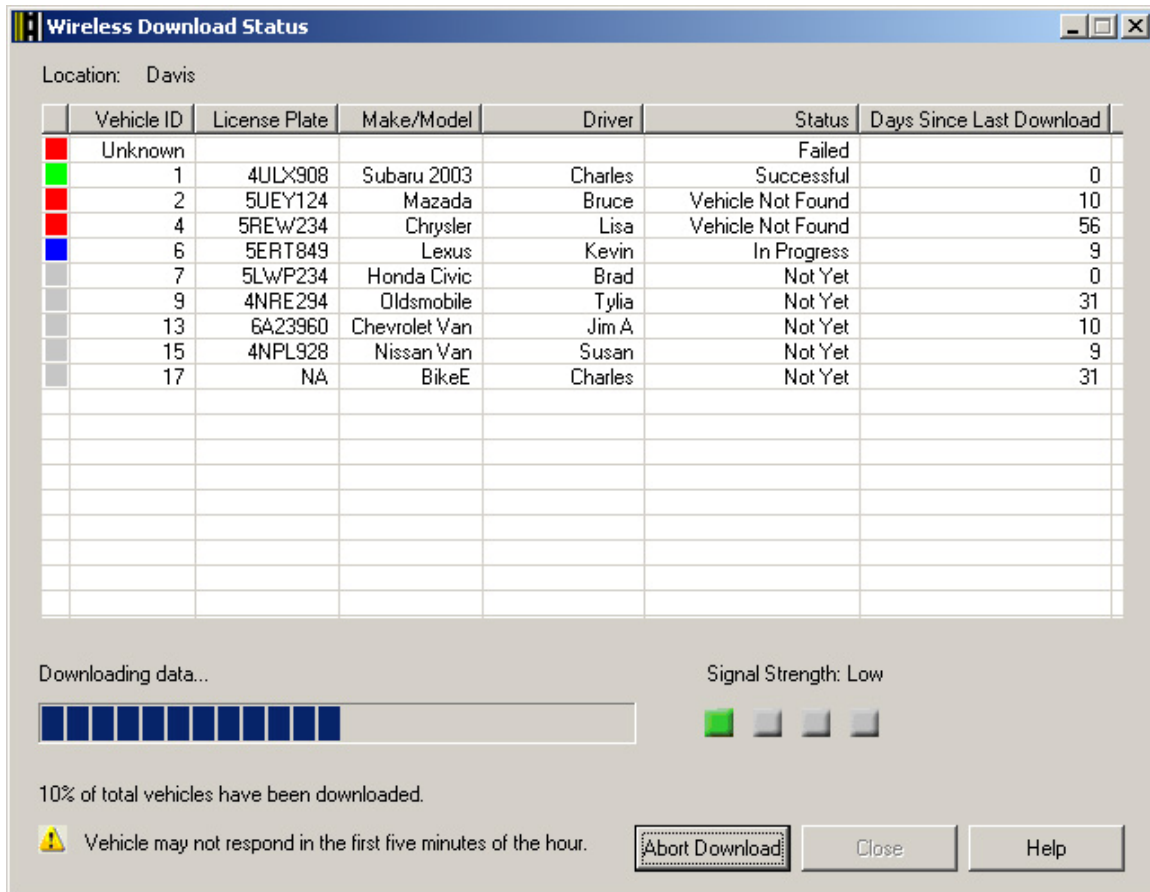
[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Wireless Download Status

The **Wireless Download Status** dialog box displays when the time set in the [Automatic Wireless Download](#) dialog box has occurred or when you click **Start Download** in [Start Manual Wireless Download](#) dialog box.

Note: At the top of each hour, the Wireless On-Board Module is turned off by the DriveRight or Carchip device for up to five minutes. This is done to allow the DriveRight or CarChip to turn on the GPS module to refresh the satellite position periodically. This occurs even without a GPS module being physically connected to your DriveRight or Carchip device. FMS will not be able to communicate with the Wireless On-Board Module(s) during this time.

The **Wireless Download Status** dialog box displays the progress and status of the vehicles you selected to download.



The **Wireless Download Status** dialog box displays a table with all the vehicles selected for download and their download status, as well as their assigned vehicle and driver information.

The color box provides a visual representation of the status for each of the Wireless On-Board Modules in the download list. The color is updated throughout the download process. The **Status** column on the right hand side of the dialog box also documents the status for each module. The possible statuses are:

- Not Yet** - The Base Station has not yet scanned for the Wireless On-Board Module.
- Searching for Vehicle** - The Base Station is currently searching for the Wireless On-Board Module.
- In Progress** - The Base Station is currently downloading DriveRight data through the Wireless On-Board Module.
- Successful** - The Base Station has successfully found and downloaded the Wireless On-Board Module.
- Failed** - The Base Station has not successfully communicated with or found errors in communicating with the Wireless On-Board Module. The download will continue to retry for the failed vehicles until the duration period you selected in the [Setup Automatic](#)

[Wireless Download](#) or [Start Manual Wireless Download](#) dialog box has elapsed. The following is a status list that corresponds to the red color box:

- **Vehicle ID Mismatch** - The Wireless On-Board Module is not installed in the assigned vehicle. To correct this problem, select the Wireless On-Board Module's record in the [Wireless Devices](#) database table and click Edit. The Edit Wireless On-Board Module dialog box displays information about the On-Board Module. Change the Vehicle ID field of the Wireless On-Board Module to Automatic to allow FMS to find the Vehicle's ID automatically. You can also install the Wireless On-Board Module into the assigned vehicle.
- **Device Not Assigned** - The DriveRight has not been assigned to a vehicle, the CarChip has not been assigned to a vehicle or a driver, or the DriveRight or CarChip has not been added to the FMS Database. [Add the DriveRight](#) or [CarChip](#) and assign it to the [corresponding vehicle](#) or [driver](#).
- **Device Not Available** - FMS is able to communicate with the Wireless On-Board module, but is not able to get a response from the device (DriveRight or CarChip) which is connected to the Wireless On-Board Module. Try to restore power to the device or reconnect the device to fix the problem.
- **Vehicle Not Found** - The Vehicle and Wireless On-Board Module are not within range of the Base Station. This status also occurs when there is an error communicating with the DriveRight or CarChip device. See [Wireless Device Communication Problems](#) for more information.
- **Set Clock Failed** - The wireless download was completed successfully, but FMS failed to reset the clock on the DriveRight or CarChip. If the **Synchronize time and date after every download** box is checked in the [Download Options](#) dialog box, FMS synchronizes the DriveRight's internal time and date clock with the computer's clock after every download is completed.

Note: If there is a problem in synchronizing your DriveRight's clock, manually make sure the DriveRight clock is still correct, otherwise subsequent data logging may have incorrect time stamps.

Click **Abort Download** to stop the wireless download before it is completed or click **Close** to close the dialog box once the download has completed. Please note that if you abort the download before it completes the download, the last vehicle it scans will automatically contain a failed status.

Note: Since it is not required to select a vehicle when adding a new Wireless On-Board Module, Unknown is displayed under the Vehicle ID column to indicate that a vehicle has not been assigned to a Wireless On-Board Module.

Back to [Wireless Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Upgrade Firmware

The **Upgrade Firmware** dialog box lets you update the firmware for both the wireless Base Station and Wireless On-Board Modules.

Note: To upgrade the firmware, connect the wireless device(s) to the USB port(s) of the computer. Both the Wireless On-Board Module and the Base Station share the same firmware.

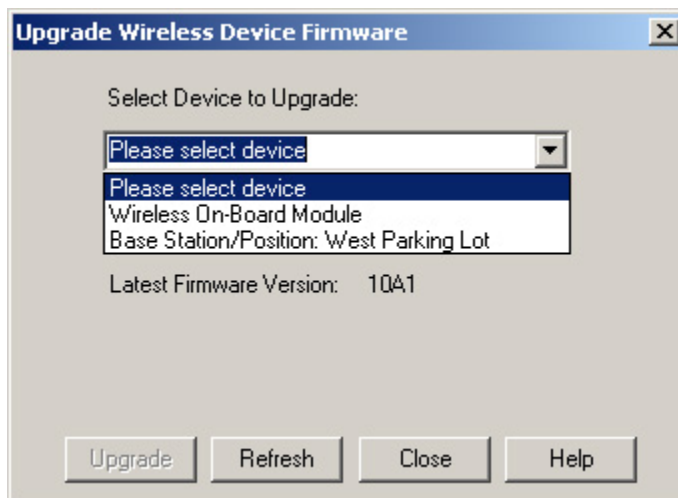
To upgrade the firmware:

1. Select **Upgrade Firmware** from the **Wireless** Menu.

If this is the first time any wireless device has been connected to FMS, the **Select Operating Region** dialog box displays.

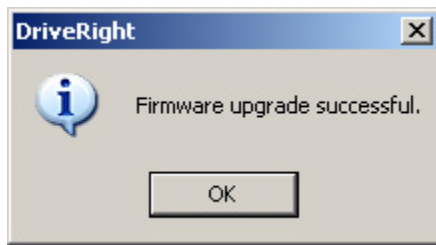


2. Select among the three choices displayed: **North America**, **Europe**, or **Other**. The operating region determines the power level of the wireless devices. Select **Europe** if the power levels of the wireless devices must not exceed CE certification requirements of less than 10 dBm. Select **North America** if the power levels of the wireless devices must not exceed FCC or IC certification requirements of less than 30 dBm. Select **Other** if the operating region is not North America or Europe.
3. Once an operating region has been selected, the **Upgrade Firmware** dialog box displays.



4. Select a wireless device that you would like to upgrade from the **Select Device to Upgrade** drop-down list. The device is listed either as Base Station or Wireless On-Board Module. If you have multiple Base Stations connected, select the Base Station by its position.

- Click **Upgrade** if the **Current Firmware Version** is not the same as the **Latest Firmware Version** to upgrade the device firmware. A dialog box is displayed to confirm that the firmware has been upgraded successfully:



- Click **OK** to exit the dialog box.
- Click **Refresh** if you have connected another device to your computer. The **Select Device to Upgrade** drop-down list refreshes to include the newly connected device(s).
- Click **Close** once you are finished upgrading all the wireless devices.

Back to [Wireless Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Select Operating Region

The **Select Operating Region** dialog box lets you select an operating region to the wireless device(s). Selecting a region adjusts the operating legal power of the wireless device(s).

- Select **Select Operating Region** from the **Wireless** Menu. The **Select Operating Region** dialog box displays.

The **Select Operating Region** dialog box displays automatically the first time you select [Add New Base Station](#), [Add New Wireless On-Board Module](#), or [Upgrade Firmware](#) from the **Wireless** Menu. The same operating region selection applies to all wireless devices added to the database.



- Select among the three choices displayed: **North America**, **Europe**, or **Other**. The operating region determines the power level of the wireless devices. Select **Europe** if the power levels of the wireless devices must not exceed CE certification requirements of less than 10 dBm. Select **North America** if the power levels of the wireless devices must

not exceed FCC or IC certification requirements of less than 30 dBm. Select **Other** if the operating region is not North America or Europe.

3. Click **OK** to save the operating region information or click **Cancel** to exit without saving.

Note: Changing the operating region at any time only affects the settings of the subsequently added wireless devices, not the ones that have been previously added to the system. To re-configure the setting for previously added devices, remove the wireless device(s) from the [Wireless Devices](#) database table in the **Database** menu, reconnect the device(s), change the operating region for the device(s), then add the wireless device(s) back into the database.

Back to [Wireless Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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](#)

[Wireless Devices](#)

[Driver Groups](#)

[Drivers](#)

[Fleets](#)

[Vehicles](#)

[Trips](#)

[Accident Logs](#)

[Tamper Logs](#)

[Trip Addresses](#)

[Days](#)

[Download Dates](#)

[GPS](#)

[Odometer Logs](#)

[Safety Score](#)

[Trouble Codes](#)

[Readiness Codes](#)

[CarChip Parameter Logs](#)

[Maintenance](#)

Back to [Menu Commands](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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](#)

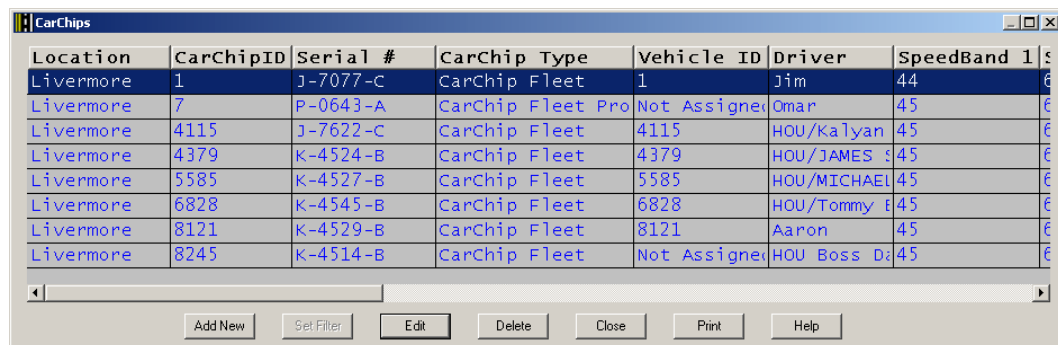
[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

CarChips

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

To view or edit CarChip data:

1. Select **CarChip** from the **Database** menu. The CarChip database table displays.



Location	CarChipID	Serial #	CarChip Type	Vehicle ID	Driver	SpeedBand 1
Livermore	1	J-7077-C	CarChip Fleet	1	Jim	44
Livermore	7	P-0643-A	CarChip Fleet Pro	Not Assigned	Omar	45
Livermore	4115	J-7622-C	CarChip Fleet	4115	HOU/Kalyan	45
Livermore	4379	K-4524-B	CarChip Fleet	4379	HOU/JAMES	45
Livermore	5585	K-4527-B	CarChip Fleet	5585	HOU/MICHAEL	45
Livermore	6828	K-4545-B	CarChip Fleet	6828	HOU/Tommy	45
Livermore	8121	K-4529-B	CarChip Fleet	8121	Aaron	45
Livermore	8245	K-4514-B	CarChip Fleet	Not Assigned	HOU Boss D	45

2. Click [Add New](#) to add a new CarChip to the database. The [Add New CarChip Wizard](#) displays.
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.

Note: You can only change the assigned vehicle or the assigned driver, and the Next Wireless Download Action when editing a CarChip record in 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](#)

Wireless Devices

Use **Wireless Devices** to view or edit data for the wireless device(s) in your fleet.

To view or edit wireless device information:

1. Select **Wireless Devices** from the **Database** menu. The Wireless Devices database table is displayed.
2. Highlight a record in the database table and click **Edit**. The [Edit Base Station](#) or [Edit Wireless On-Board Module](#) dialog box displays.
3. Highlight a record in the database table and click **Delete** to delete that record.
4. Click **Close** to exit the database table.
5. Click [Print](#) to print the database table.

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](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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](#)

Back to [Database Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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.

Back to [Database Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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](#)

Back to [Database Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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.

Back to [Database Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

GPS

Select **GPS** from the **Database** menu to view or edit GPS or speed sample 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. The *GPS database table* displays.
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.

Note: See the [GPS Status Descriptions](#) for more information on the Status column and what the values in the field mean for a given record.

See also:

[Filter for GPS](#)

[Filter for Deleting GPS](#)

[Edit GPS](#)

[Print GPS](#)

Back to [Database Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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](#)

Back to [Database Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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](#)

Back to [Database Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Trouble Codes

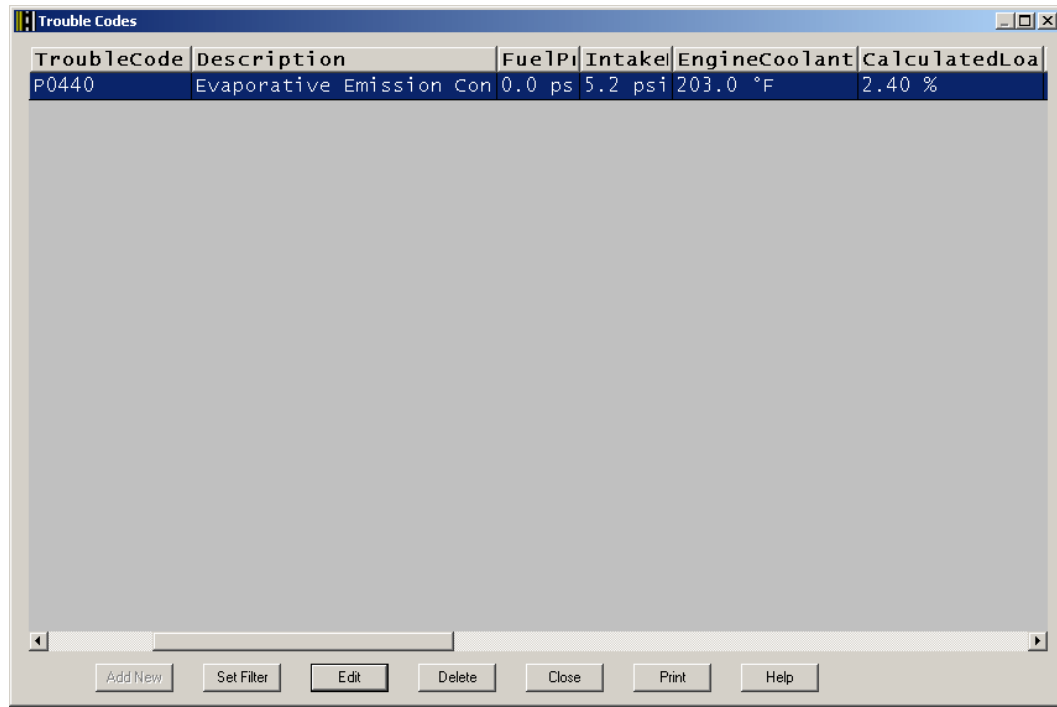
Use **Trouble Codes** from the **Database** menu to view any trouble codes logged by a CarChip.

Note: The Trouble Code database table and resulting data is only logged by a CarChip device.

To view the Trouble Code data:

1. Select **Trouble Codes** from the **Database** menu. The [Filter For Trouble Codes](#) dialog box is displayed.

2. Select your desired filter options.
3. Click **OK** to view the Trouble Code database table or click **Cancel** to exit the dialog box without opening the database table. The *Trouble Code* database table displays the Trouble Code, description and a sample of the engine reading taken at the time the trouble code was recorded.



TroubleCode	Description	FuelP	Intake	EngineCoolant	CalculatedLoa
P0440	Evaporative Emission Con	0.0 ps	5.2 psi	203.0 °F	2.40 %

4. Click [Set Filter](#) to change the filter for the displayed record or highlight a specific record and click [Edit](#) to view that record.

Note: You cannot edit trouble code records but you can view the individual record's detailed information.

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

See also:

[Filter for Trouble Codes](#)

[Edit Trouble Code Record](#)

Back to [Database Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Readiness Codes

Use **Readiness Codes** from the **Database** menu to view the readiness codes logged by a CarChip. A readiness code is used to indicate whether or not monitored emissions control systems have been tested by the OBDII system. Each emissions control system has its own monitor and related code. Some emission control components are tested continuously throughout a trip and others are tested intermittently when predetermined operating conditions are met.

Note: The Readiness Code database table and resulting data is only logged by a CarChip device at the beginning of a trip. The readiness code database displays readiness codes from the last recorded trip for every CarChip and assigned vehicle in the database. One readiness code record is available for each assigned vehicle.

To view the Readiness Code data:

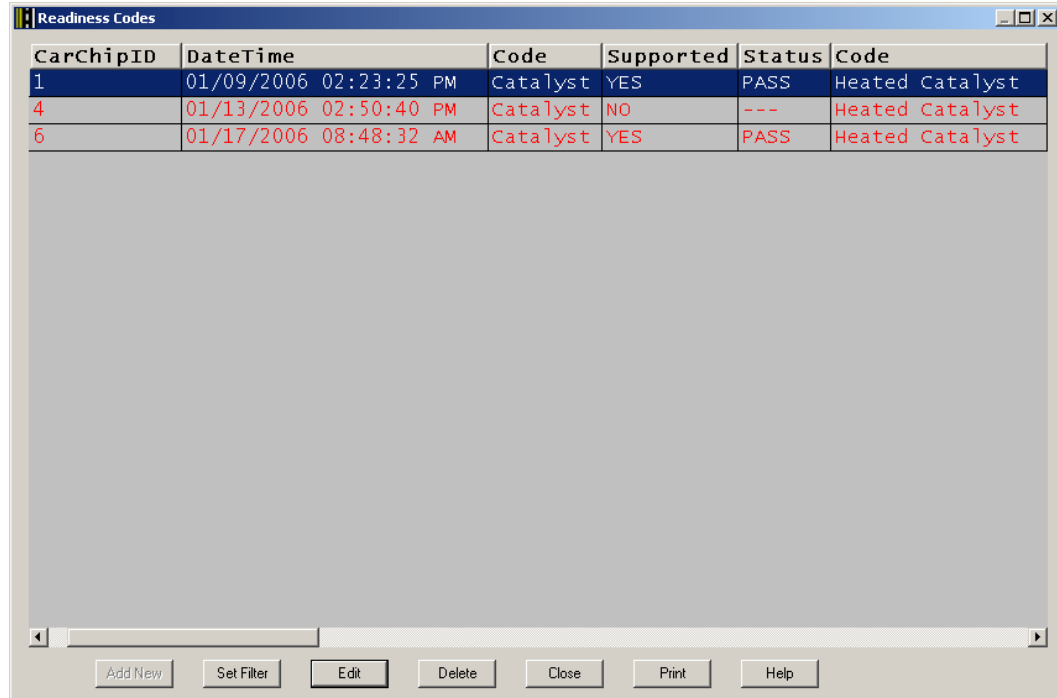
1. Select **Readiness Codes** from the **Database** menu. The [Filter For Readiness Codes](#) dialog box is displayed.
2. Select your desired filter options.
3. Click **OK** to view the Readiness Code database table or click **Cancel** to exit the dialog box without opening the database table. The **Readiness Code** database table displays the eleven possible readiness codes, whether or not the readiness code is supported for the vehicle and if the readiness monitor completed or did not complete a test at the time the readiness code monitors were recorded (usually at time of vehicle start-up) for each of the available readiness codes.

The monitored readiness codes are:

Catalyst
 Heated Catalyst
 Evaporative System
 Secondary Air System
 A/C System Refrigerant
 Oxygen Sensor
 Oxygen Sensor Header
 EGR System
 Misfire
 Fuel System
 Comprehensive Component

Not all eleven monitors displayed on the list may be supported, or monitored by your vehicle's systems. If "Not Supported" displays in the supported column, it simply means that the monitor does not exist or is not be monitored by your vehicle. See your vehicle's manual or supporting documentation for emission monitors that your vehicle does support.

The Status column displays "Complete" or "Not Complete" for the readiness codes that are supported in your vehicle and "--" for all the readiness codes that are not supported. A "Complete" means a test of that emissions monitor was completed at the time of CarChip recorded the readiness codes. A "Not Complete" could mean that the OBD system has not yet completed testing of that component or system or that a component failure may exist, but has not been identified because system testing has not been complete. Most states allow for two unset readiness codes during OBD or smog check testing. If three or more unset, non-continuous codes are present, vehicle may be deemed as "Unable to complete OBD Testing". See your state's rules and regulations for more details.



CarChipID	DateTime	Code	Supported	Status	Code
1	01/09/2006 02:23:25 PM	Catalyst	YES	PASS	Heated Catalyst
4	01/13/2006 02:50:40 PM	Catalyst	NO	---	Heated Catalyst
6	01/17/2006 08:48:32 AM	Catalyst	YES	PASS	Heated Catalyst

Buttons: Add New, Set Filter, Edit, Delete, Close, Print, Help

- Click [Set Filter](#) to change the filter for the displayed record or highlight a specific record and click [Edit](#) to view that record.

Note: You cannot edit trouble code records but you can view the individual record's detailed information.

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

See also:

[Filter for Readiness Codes](#)

[Edit Readiness Code Record](#)

Back to [Database Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

CarChip Parameter Logs

Use **CarChip Parameter Logs** to view vehicle speed parameter logs for a selected CarChip or all CarChips available in the database.

To view the CarChip Parameter Log data:

- Select **CarChip Parameter Logs** from the **Database** menu. The [Filter for CarChip Parameter Logs](#) dialog box displays.

2. Select your desired filter options.

Click **OK** to display the CarChip Parameter Logs database table or click **Cancel** to exit the dialog box without opening the database table. The CarChip Parameter Logs database table displays.

Location	CarChip ID	Parameter Type	DateTime	Value
Livermore	7	Vehicle Speed	09/05/2007 03:57:08 PM	56
Livermore	7	Vehicle Speed	09/05/2007 03:57:09 PM	56
Livermore	7	Vehicle Speed	09/05/2007 03:57:10 PM	56
Livermore	7	Vehicle Speed	09/05/2007 03:57:11 PM	56
Livermore	7	Vehicle Speed	09/05/2007 03:57:12 PM	56
Livermore	7	Vehicle Speed	09/05/2007 03:57:13 PM	56
Livermore	7	Vehicle Speed	09/05/2007 03:57:14 PM	56
Livermore	7	Vehicle Speed	09/05/2007 03:57:15 PM	56
Livermore	7	Vehicle Speed	09/05/2007 03:57:16 PM	56
Livermore	7	Vehicle Speed	09/05/2007 03:57:17 PM	56
Livermore	7	Vehicle Speed	09/05/2007 03:57:18 PM	56
Livermore	7	Vehicle Speed	09/05/2007 03:57:19 PM	56
Livermore	7	Vehicle Speed	09/05/2007 03:57:20 PM	56
Livermore	7	Vehicle Speed	09/05/2007 03:57:21 PM	56
Livermore	7	Vehicle Speed	09/05/2007 03:57:22 PM	56
Livermore	7	Vehicle Speed	09/05/2007 03:57:23 PM	56
Livermore	7	Vehicle Speed	09/05/2007 03:57:24 PM	56
Livermore	7	Vehicle Speed	09/05/2007 03:57:25 PM	56
Livermore	7	Vehicle Speed	09/05/2007 03:57:26 PM	56
Livermore	7	Vehicle Speed	09/05/2007 03:57:27 PM	56
Livermore	7	Vehicle Speed	09/05/2007 03:57:28 PM	56

3. Highlight a record in the database table and click **Delete** to delete that record.
4. Click [Set Filter](#) to change the filter for the displayed records.
5. Click **Close** to exit the database table.
6. Click [Print](#) to print the database table.

See also:

[Filter for Carchip Parameter Logs](#)

[Print CarChip Parameter Logs](#)

[Filter for Deleting CarChip Parameter Logs](#)

Back to [Database Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Maintenance

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](#)
- [CarChip Parameter 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.

Back to [Database Menu](#)

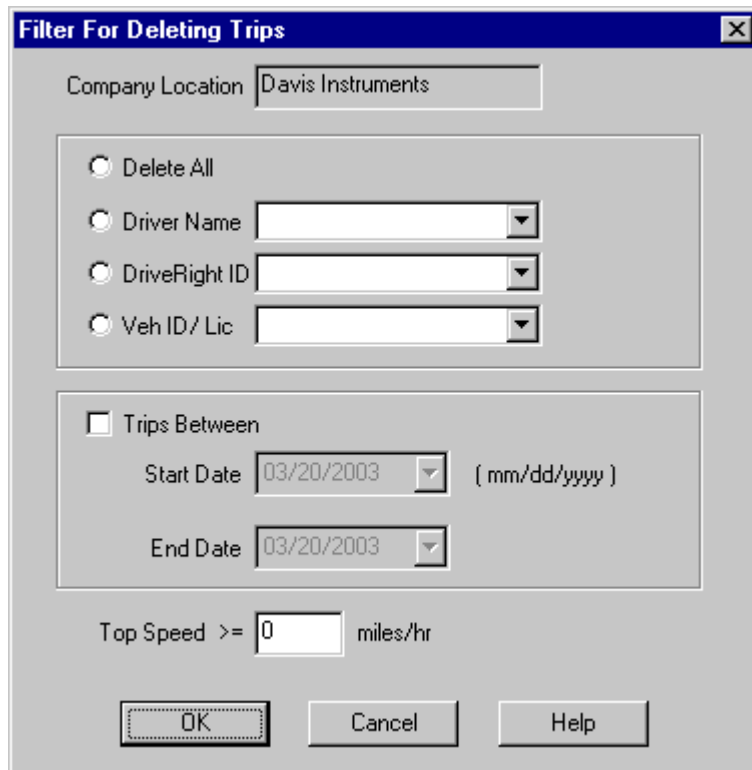
[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Filter For Deleting Trips

Use this filter to select trip records for deletion.

To select trip data for deletion:

1. Select **Maintenance** from the **Database** menu.
2. Select **Delete Data** and then select **Trips** in the drop-down menu. The **Filter For Deleting Trips** dialog box is displayed.



The dialog box is titled "Filter For Deleting Trips". It contains the following elements:

- Company Location:** A text box containing "Davis Instruments".
- Filter Options:** A group box containing four radio buttons:
 - ☐ Delete All
 - ☐ Driver Name [dropdown menu]
 - ☐ DriveRight ID [dropdown menu]
 - ☐ Veh ID/ Lic [dropdown menu]
- Trips Between:** A checkbox labeled "Trips Between" is unchecked. Below it are two date pickers:
 - Start Date: 03/20/2003 (format: mm/dd/yyyy)
 - End Date: 03/20/2003
- Top Speed:** A text box with ">=" followed by "0" and "miles/hr".
- Buttons:** OK, Cancel, and Help.

3. Select one of four options:

Click the **Delete All** to delete all records.

Click **Driver Name** and select a driver from the drop-down list to delete the records for a specific driver.

Click **DriveRight ID** and select an ID from the drop-down list to delete the records for a specific DriveRight.

Click **Veh ID/Lic** and select an ID from the drop-down list to delete the records for a specific vehicle.

4. Check **Trips Between** and select a Start Date and End Date to delete records from a specific time period.

5. To delete records with a high speed over a specified speed, enter a speed in the **High Speed >=** text box.

6. Click **OK** to delete the selected records or click **Cancel** to exit the dialog box.

Back to [Database Menu](#) | [Maintenance](#)

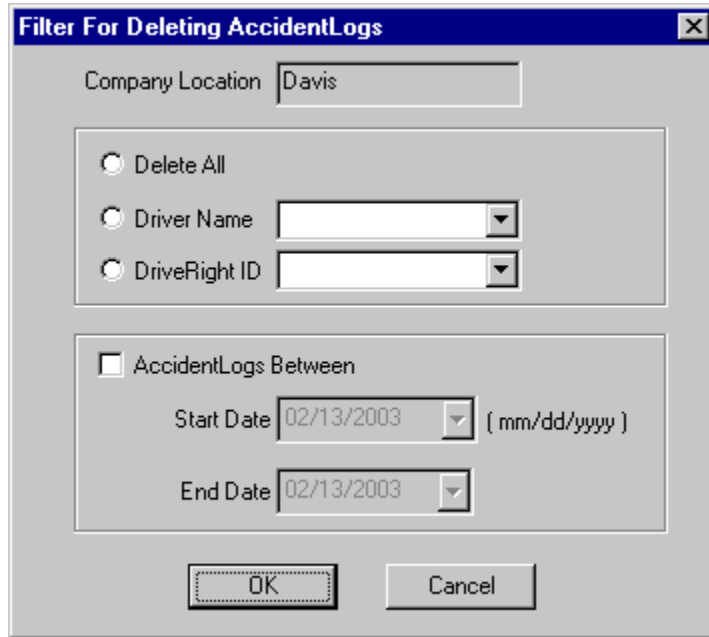
[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Filter For Deleting Accident Logs

Use this filter to select Accident Log data to be deleted.

To select Accident Log data for deletion:

1. Select **Maintenance** from the **Database** menu.
2. Select **Delete Data** from the **Maintenance** sub-menu and then select **Accident Log** in the drop-down menu. The **Filter For Deleting Accident Log** dialog box is displayed.

The image shows a Windows-style dialog box titled "Filter For Deleting AccidentLogs". At the top, there is a text field labeled "Company Location" containing the text "Davis". Below this, there are three radio button options: "Delete All", "Driver Name", and "DriveRight ID". The "Delete All" option is currently selected. The "Driver Name" and "DriveRight ID" options are followed by empty drop-down menus. Below these options is a section with a checkbox labeled "AccidentLogs Between". This checkbox is currently unchecked. Below the checkbox are two date fields: "Start Date" and "End Date", both containing the date "02/13/2003". To the right of the "Start Date" field is a small text label "(mm/dd/yyyy)". At the bottom of the dialog box are two buttons: "OK" and "Cancel".

3. Select one of three options:
Click the **Delete All** to delete all records.
Click **Driver Name** and select a driver from the drop-down list to delete the records for a specific driver.
Click **DriveRight ID** and select an ID from the drop-down list to delete the records for a specific DriveRight.
4. Check **Accident Logs Between** and select a Start Date and End Date to delete records from a specific time period.
5. Click **OK** to delete the selected records or click **Cancel** to exit the dialog box.

Back to [Database Menu](#) | [Maintenance](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Filter For Deleting Tamper Logs

Use this filter to select Tamper Log data to be deleted.

To select tamper log data for deletion:

1. Select **Maintenance** from the **Database** menu.
2. Select **Delete Data** and then select **Tamper Logs** from the drop-down menu. The **Filter For Deleting Tamper Logs** dialog box is displayed.

3. Select one of four options:
Click the **Delete All** to delete all records.
Click **Driver Name** and select a driver from the drop-down list to delete the records for a specific driver.
Click **DriveRight ID** and select an ID from the drop-down list to delete the records for a specific DriveRight.
Click **Veh ID/Lic** and select an ID from the drop-down list to delete the records for a specific vehicle.
4. Check **Tamper Logs Between** and select a Start Date and End Date to delete records from a specific time period.
5. Click **OK** to delete the selected records or click **Cancel** to exit the dialog box.

Back to [Database Menu](#) | [Maintenance](#)

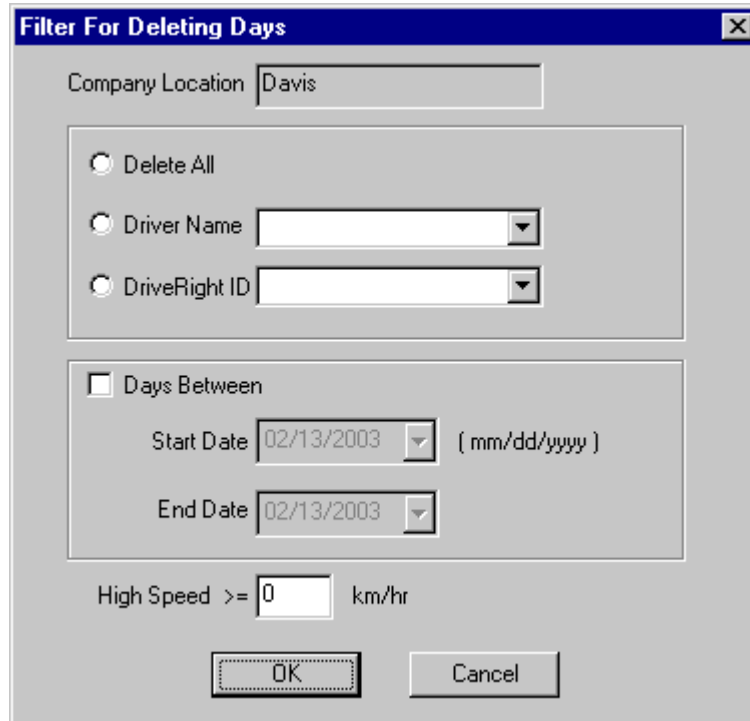
[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Filter For Deleting Days

Use this filter to select Days Table records to be deleted.

To delete Days Table records:

1. Select **Maintenance** from the **Database** menu.
2. Select **Delete Data** and then select **Days** in the drop-down menu. The **Filter For Deleting Days** dialog box is displayed.



The dialog box titled "Filter For Deleting Days" has a blue title bar with a close button. It contains the following fields and controls:

- Company Location:** A text box containing "Davis".
- Selection Options:** Three radio buttons are listed:
 - ☐ Delete All
 - ☐ Driver Name: A drop-down menu.
 - ☐ DriveRight ID: A drop-down menu.
- Days Between:** A checkbox labeled "Days Between" is checked. Below it are two date pickers:
 - Start Date:** A date picker showing "02/13/2003" with a format hint "(mm/dd/yyyy)".
 - End Date:** A date picker showing "02/13/2003".
- High Speed:** A text box with ">=" followed by "0" and "km/hr".
- Buttons:** "OK" and "Cancel" buttons at the bottom.

2. Select one of three options:
 - Click **Delete All** to select all records for deletion.
 - Click **Driver Name** and select a driver from the drop-down list to select the records for a specific driver for deletion.
 - Click **DriveRight ID** and select an ID from the drop-down list to select the records for a specific DriveRight for deletion.
3. Check **Days Between** and select a Start Date and End Date to select records from a specific time period for deletion.
4. To select for deletion only records with a high speed over a specified speed, enter a speed in the **High Speed >=** text box.
5. Click **OK** to delete the selected records or click **Cancel** to exit. If you click **OK**, a confirmation dialog box appears.
6. Click **Yes** to confirm deletion or click no to cancel the deletion.

Back to [Database Menu](#) | [Maintenance](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Filter For Deleting Download Dates

Use this filter to select Download Dates records for deletion.

To select Download Dates data for deletion:

1. Select **Maintenance** from the **Database** menu.
2. Select **Delete Data** and then select **Download Dates** in the drop-down menu. The **Filter For Deleting Download Dates** dialog box is displayed.

2. Select one of three options:

Click **Delete All** to delete all records.

Click **Driver Name** and select a driver from the drop-down list to delete the records for a specific driver.

Click **DriveRight ID** and select an ID from the drop-down list to delete the records for a specific DriveRight.

3. Check **Download Dates Between** and select a Start Date and End Date to delete records for a specific time period.
4. Click **OK** to delete the selected records or click **Cancel** to exit the dialog box.

Back to [Database Menu](#) | [Maintenance](#)

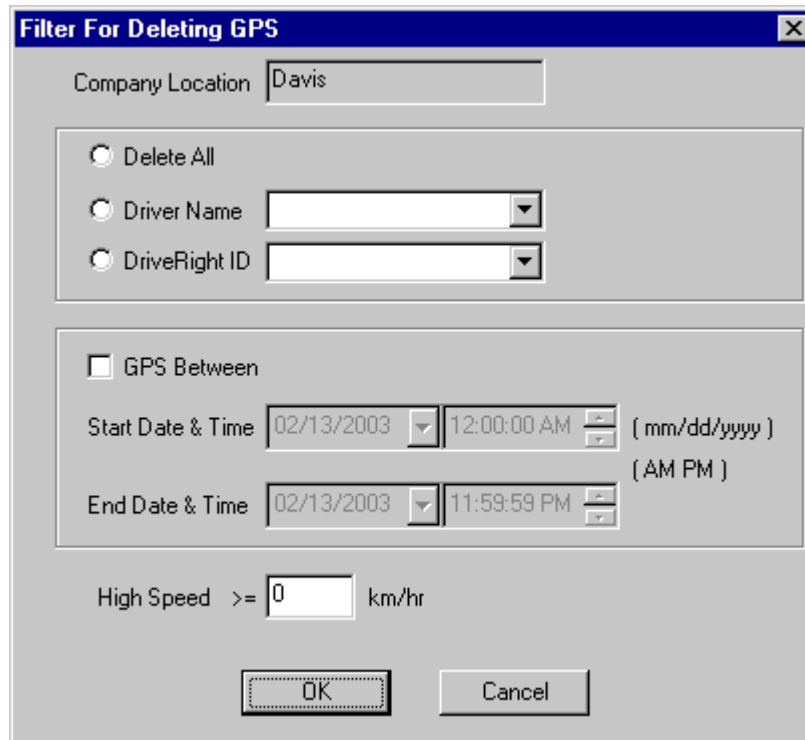
[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Filter For Deleting GPS

Use this filter to select GPS data to be deleted.

To select GPS data for deletion:

1. Select **Maintenance** from the **Database** menu.
2. Select **Delete Data** and then select **GPS** in the drop-down menu. The **Filter For Deleting GPS** dialog box is displayed.



The dialog box titled "Filter For Deleting GPS" has a close button (X) in the top right corner. It contains the following fields and controls:

- Company Location:** A text box containing "Davis".
- Selection Options:** Three radio buttons are listed:
 - ☐ Delete All
 - ☐ Driver Name: A drop-down menu.
 - ☐ DriveRight ID: A drop-down menu.
- GPS Between:** A checkbox that is currently unchecked.
- Start Date & Time:** Two date/time pickers. The first shows "02/13/2003" and the second shows "12:00:00 AM". To the right is the format "(mm/dd/yyyy)".
- End Date & Time:** Two date/time pickers. The first shows "02/13/2003" and the second shows "11:59:59 PM". To the right is the format "(AM PM)".
- High Speed >=:** A text box containing "0" followed by "km/hr".
- Buttons:** "OK" and "Cancel" buttons at the bottom.

2. Select one of three options:
Click **Delete All** to delete all records.
Click **Driver Name** and select a driver from the drop-down list to delete the records for a specific driver.
Click **DriveRight ID** and select an ID from the drop-down list to delete the records for a specific DriveRight.
3. Check **GPS Between** and select a Start Date and End Date to delete records from a specific time period.
4. To delete records with a high speed over a specified speed, enter a speed in the **High Speed >=** text box.
5. Click **OK** to delete the selected records or click **Cancel** to exit the dialog box.

Back to [Database Menu](#) | [Maintenance](#)

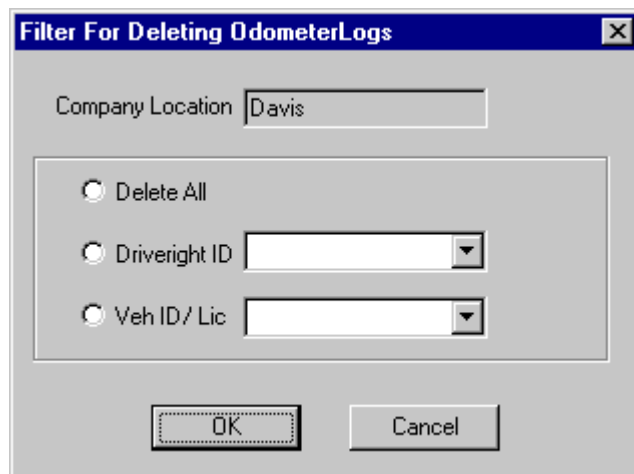
[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Filter For Deleting Odometer Logs

Use this filter to select Odometer Log data to be deleted.

To select odometer log data for deletion:

1. Select **Maintenance** from the **Database** menu.
2. Select **Delete Data** and then select **Odometer Logs** in the drop-down menu. The **Filter For Deleting Odometer Logs** dialog box is displayed.



2. Select one of three options:
Click **Delete All** to delete all records.
Click **Driver Name** and select a driver from the drop-down list to delete the records for a specific driver.
Click **DriveRight ID** and select an ID from the drop-down list to delete the records for a specific DriveRight.
3. Click **OK** to delete the selected records or click **Cancel** to exit the dialog box.

Back to [Database Menu](#) | [Maintenance](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

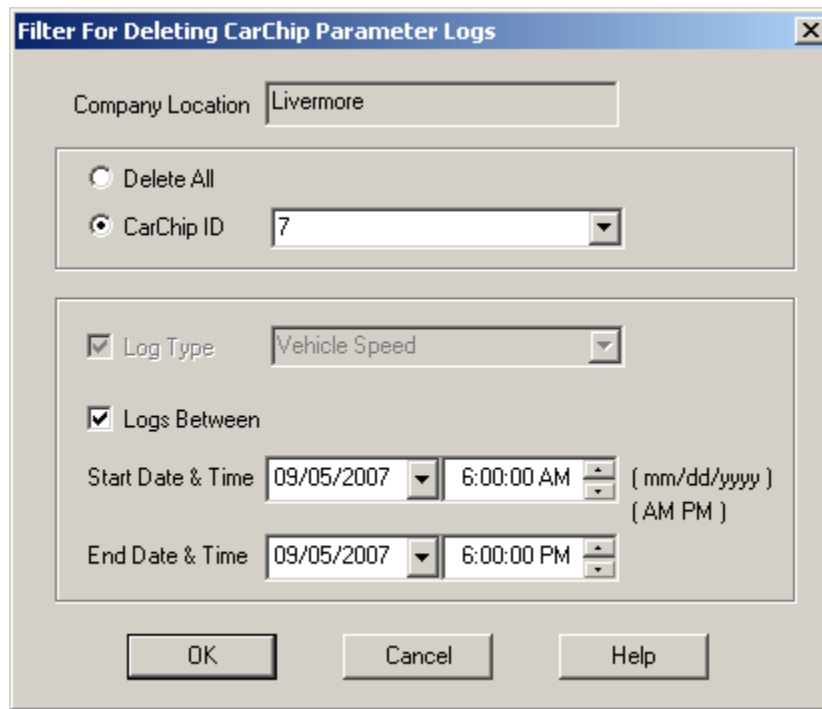
Filter for Deleting CarChip Parameter Logs

Use **Filter for Deleting CarChip Parameter Logs** to set the filter for deleting certain parameter log records for a selected CarChip or all CarChips in the available in the database.

To filter the CarChip Parameter Logs data for selecting logs you want to delete:

1. Select **Maintenance** from the **Database** menu.

2. Select **Delete Data** from the **Maintenance** sub-menu.
3. Select **CarChip Parameter Logs**.
4. The **Filter for Deleting CarChip Parameter Logs** dialog box displays.



The dialog box is titled "Filter for Deleting CarChip Parameter Logs". It contains the following fields and controls:

- Company Location:** A text box containing "Livermore".
- Selection Options:** Two radio buttons. The first is "Delete All". The second is "CarChip ID", which is selected. To its right is a dropdown menu showing the number "7".
- Log Type:** A checked checkbox labeled "Log Type" followed by a dropdown menu showing "Vehicle Speed".
- Logs Between:** A checked checkbox labeled "Logs Between".
- Start Date & Time:** Two dropdown menus. The first shows "09/05/2007" and the second shows "6:00:00 AM". To the right are labels "(mm/dd/yyyy)" and "(AM PM)".
- End Date & Time:** Two dropdown menus. The first shows "09/05/2007" and the second shows "6:00:00 PM".
- Buttons:** Three buttons at the bottom: "OK", "Cancel", and "Help".

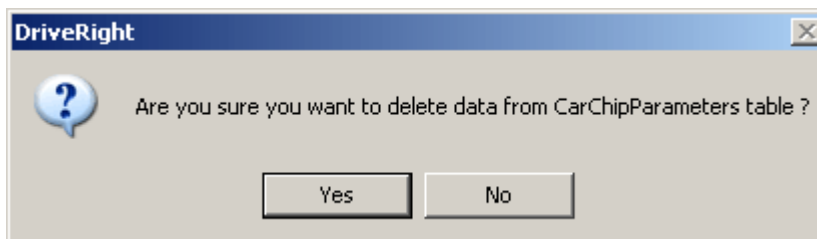
2. Select one of two options:

Click **Browse All** to select all records.

Click **CarChip ID** and select a CarChip ID from the drop-down list to select the records for a specific CarChip.

3. Check **Logs Between** and select a Start Date and Time and End Date and Time to select records for a specific time period.

4. Click **OK** to set the filter or click **Cancel** to exit the dialog box. The **Confirm Deletion** dialog box displays.



The dialog box is titled "DriveRight". It contains the following elements:

- Question Mark Icon:** A blue circular icon with a white question mark.
- Text:** "Are you sure you want to delete data from CarChipParameters table ?"
- Buttons:** Two buttons at the bottom: "Yes" and "No".

5. Click **Yes** to delete the parameter logs selected or **No** to cancel the deletion.

See also:

[CarChip Parameter Logs](#)

[Print CarChip Parameter Logs](#)

[Filter for CarChip Parameter Logs](#)

Back to [Database Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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](#)

[Vehicle Activity Report](#)

[Graphical Day Report](#)

[Tamper Logs Report](#)

[Odometer Report](#)

[Relationship Report](#)

[Days Since Last Download](#)

[Wireless Download Status Report](#)

Back to [Menu Commands Menu](#)

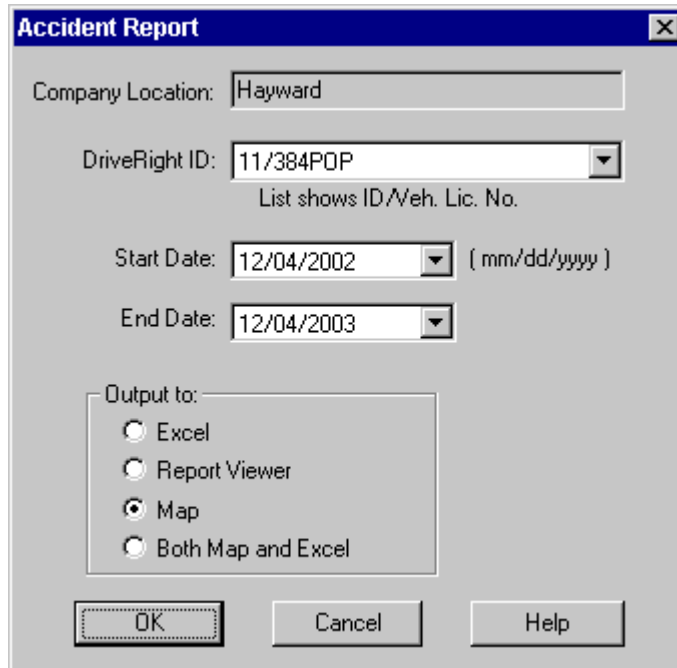
[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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](#)

Back to [Reports Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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](#)

Back to [Reports Menu](#)

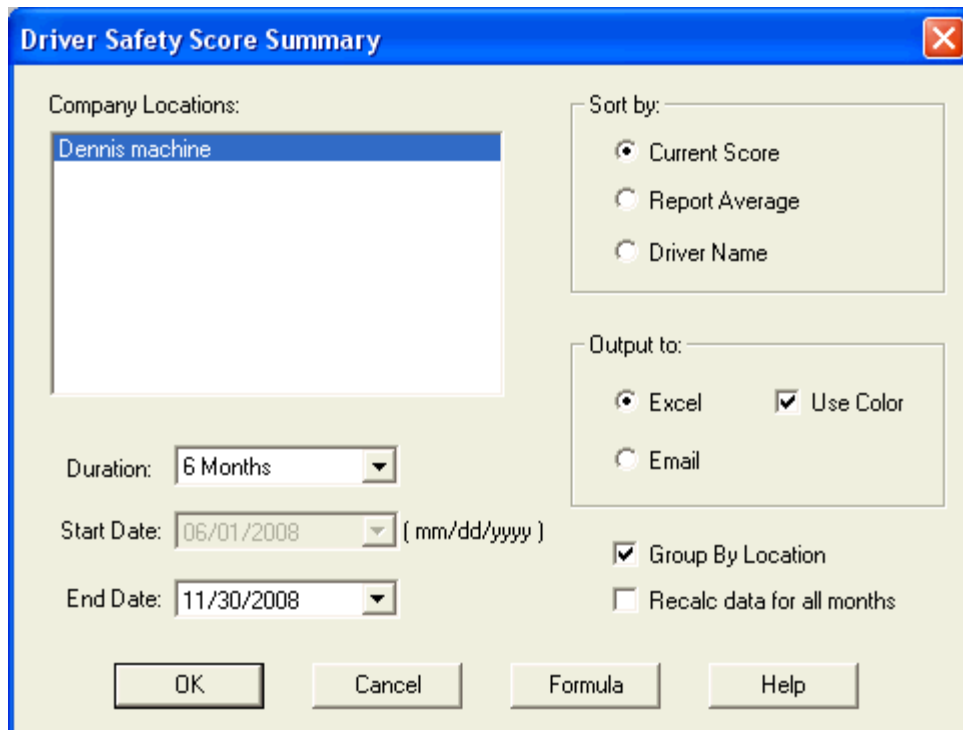
[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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 displays.



The screenshot shows the "Driver Safety Score Summary" dialog box. It has a blue title bar with a close button (X) in the top right corner. The dialog is divided into several sections:

- Company Locations:** A list box containing "Dennis machine".
- Sort by:** Three radio buttons: "Current Score" (selected), "Report Average", and "Driver Name".
- Output to:** Two radio buttons: "Excel" (selected) and "Email". A checkbox labeled "Use Color" is checked next to the "Excel" option.
- Duration:** A dropdown menu showing "6 Months".
- Start Date:** A date picker showing "06/01/2008" with a format hint "(mm/dd/yyyy)".
- End Date:** A date picker showing "11/30/2008".
- Group By Location:** A checked checkbox.
- Recalc data for all months:** An unchecked checkbox.
- Buttons:** "OK", "Cancel", "Formula", and "Help" at the bottom.

2. Click on the company locations to be used in the report. The default location is the current location, and 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 **Driver 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 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 without saving changes.

See also:

[Driver Safety Score Formula](#)

Output to Excel

[Output to Email](#)

Back to [Reports Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Exception Reports

Exception Reports

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

[Excessive Speed Report](#)

[Night Driving Report](#)

[Hard Braking Report](#)

[Hard Acceleration Report](#)

[Time Over Speed](#)

Back to [Reports Menu](#)

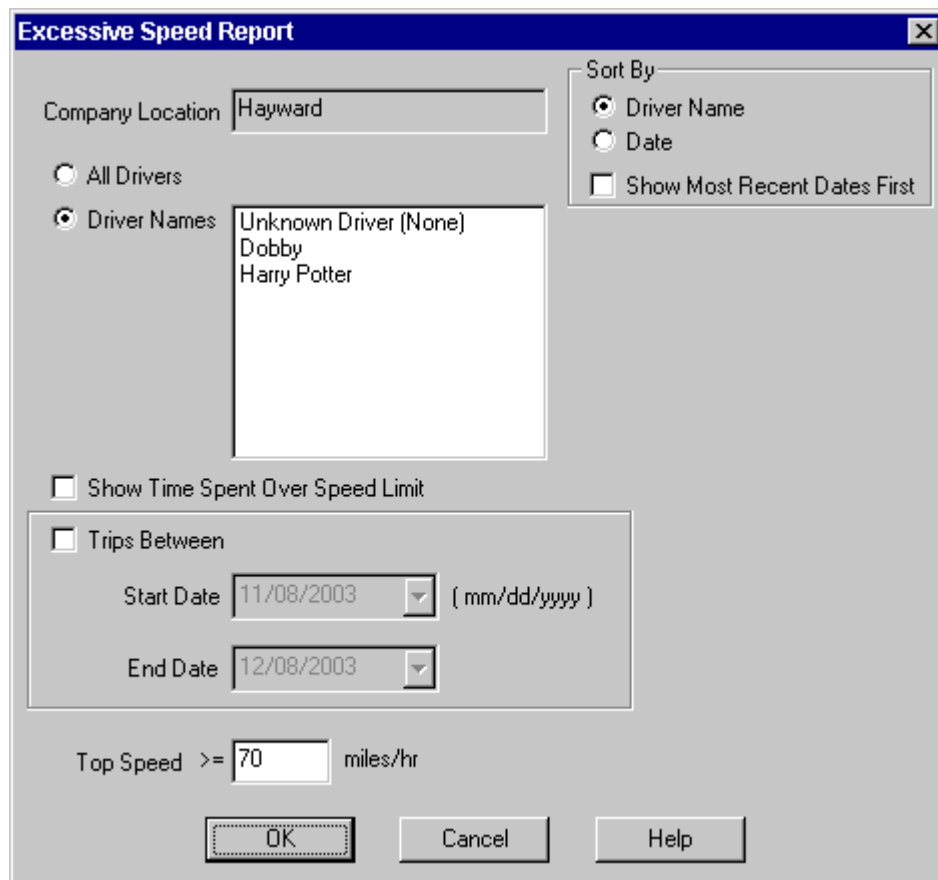
[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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** submenu in the **Reports** Menu. The **Excessive Speed Report** dialog box is displayed.



The dialog box titled "Excessive Speed Report" contains the following fields and controls:

- Company Location:** A text field containing "Hayward".
- Sort By:** A group box containing:
 - ☒ Driver Name
 - ☐ Date
 - ☐ Show Most Recent Dates First
- Driver Selection:** Radio buttons for "All Drivers" and "Driver Names". Below "Driver Names" is a list box containing "Unknown Driver (None)", "Dobby", and "Harry Potter".
- Time Spent Over Speed Limit:** A checkbox labeled "Show Time Spent Over Speed Limit".
- Trips Between:** A group box containing:
 - ☐ Trips Between
 - Start Date:** A date picker showing "11/08/2003" with a format "(mm/dd/yyyy)".
 - End Date:** A date picker showing "12/08/2003".
- Top Speed:** A text field with ">=" and "miles/hr" units, containing the value "70".
- Buttons:** "OK", "Cancel", and "Help" at the bottom.

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.
 - o Click once to select the name and click a second time to clear the name.
 - o 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](#)

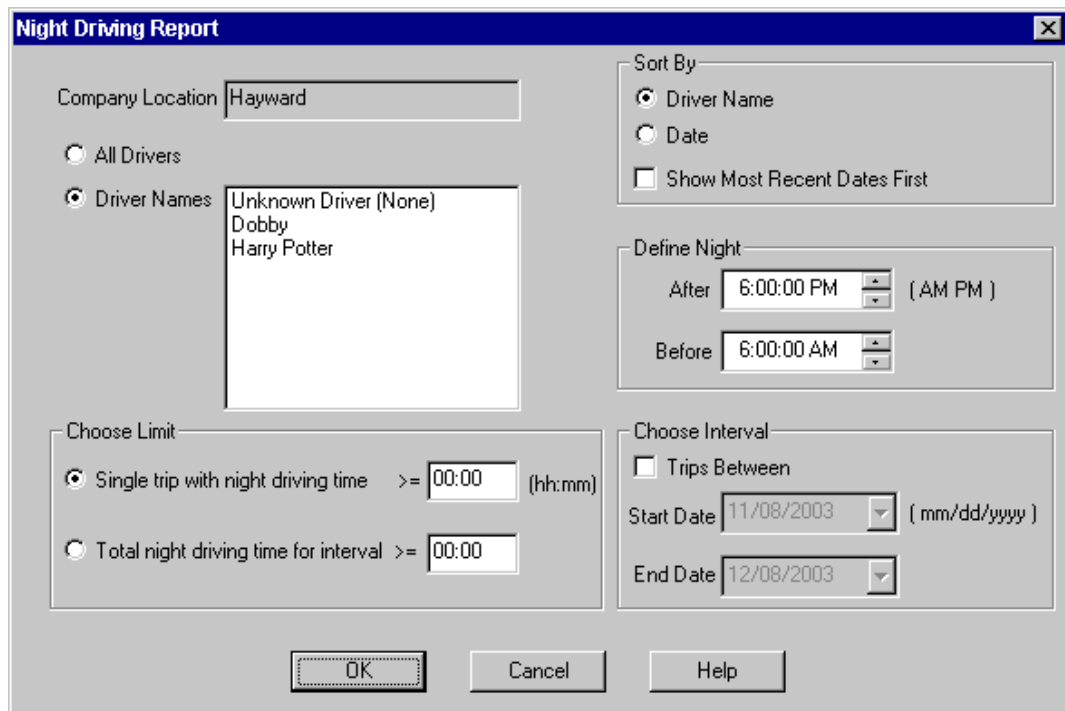
[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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** submenu in the **Reports** Menu. The Night Driving Report dialog box is displayed.



Night Driving Report

Company Location:

☐ All Drivers
☒ Driver Names

Unknown Driver (None)
 Dobby
 Harry Potter

Sort By:

☒ Driver Name

☐ Date

☐ Show Most Recent Dates First

Define Night:

After: (AM PM)

Before:

Choose Limit:

☒ Single trip with night driving time >= (hh:mm)

☐ Total night driving time for interval >=

Choose Interval:

☐ Trips Between

Start Date: (mm/dd/yyyy)

End Date:

OK Cancel Help

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, set the 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: .

Back to [Reports Menu](#) | [Exception Reports](#)

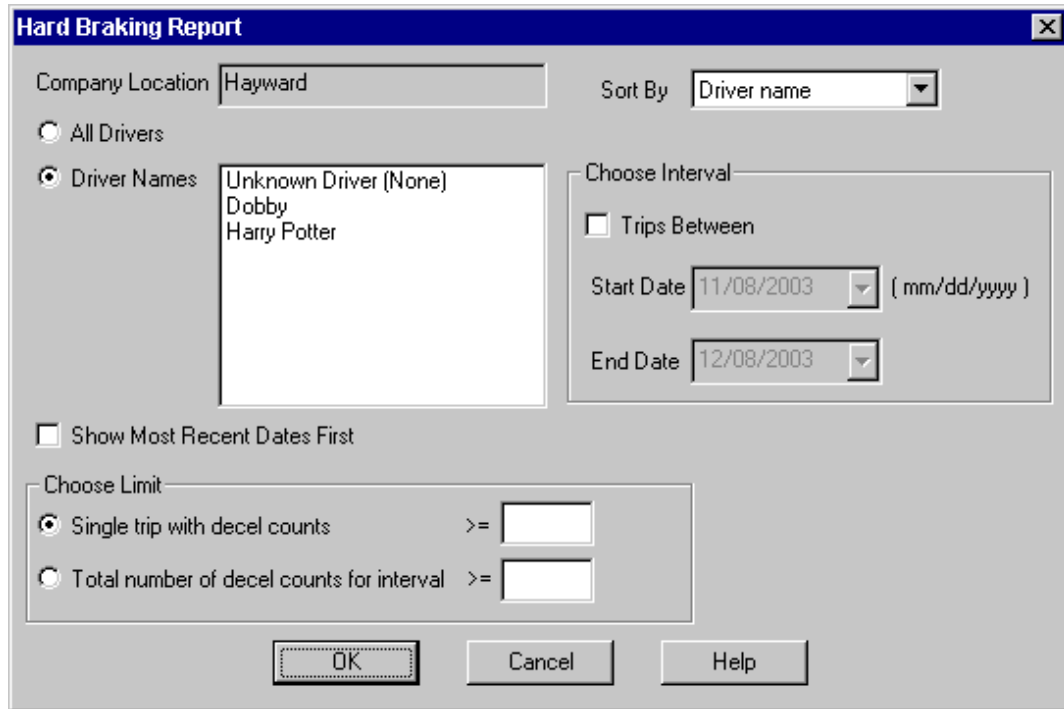
[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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** submenu in the **Reports** Menu. The **Hard Braking Report** dialog box is displayed.



The dialog box is titled "Hard Braking Report". It contains the following fields and controls:

- Company Location:** A text box containing "Hayward".
- Sort By:** A dropdown menu showing "Driver name".
- Driver Selection:** Two radio buttons. "All Drivers" is unselected, and "Driver Names" is selected. Below "Driver Names" is a list box containing "Unknown Driver (None)", "Dobby", and "Harry Potter".
- Choose Interval:** A section containing a checkbox for "Trips Between" (which is unchecked), a "Start Date" dropdown showing "11/08/2003" with a format "(mm/dd/yyyy)", and an "End Date" dropdown showing "12/08/2003".
- Show Most Recent Dates First:** An unchecked checkbox.
- Choose Limit:** A section containing two radio buttons. "Single trip with decel counts" is selected, followed by a ">=" operator and an empty text box. The second option is "Total number of decel counts for interval" followed by a ">=" operator and an empty text box.
- Buttons:** "OK", "Cancel", and "Help" buttons at the bottom.

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, set the 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: .

Back to [Reports Menu](#) | [Exception Reports](#)

Hard Acceleration Report

1. Select **Hard Acceleration** from the **Exception Reports** submenu in the **Reports** Menu. The **Hard Acceleration Report** dialog box is displayed.

Hard Acceleration Report

Company Location: Hayward

Sort By: Driver name

☒ All Drivers

☐ Driver Names

Unknown Driver (None)
Margaret Windsor
Rafael Martinez
Raj Chinta
Sally Randall
Thomas Wong

☐ Trips Between

Start Date: 07/07/2009

End Date: 07/07/2009

☐ Show Most Recent Dates First

Choose Limit

☒ Single trip with accel counts >= 1

☐ Total number of accel counts for interval >=

OK Cancel Help

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, Accel Count, or Accel Count Rate.
4. Select **All Drivers** to print a report for all drivers, or select **Driver Names** to create a report for specific drivers.
5. If you selected **Driver Names**, click on the names of drivers you want to include in the report.
 - Click once to select the name. 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 acceleration counts or you can include the trips for all drivers that exceed the minimum number of acceleration counts during the chosen date interval.
8. In the **Choose Interval** box, set the 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.

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](#)

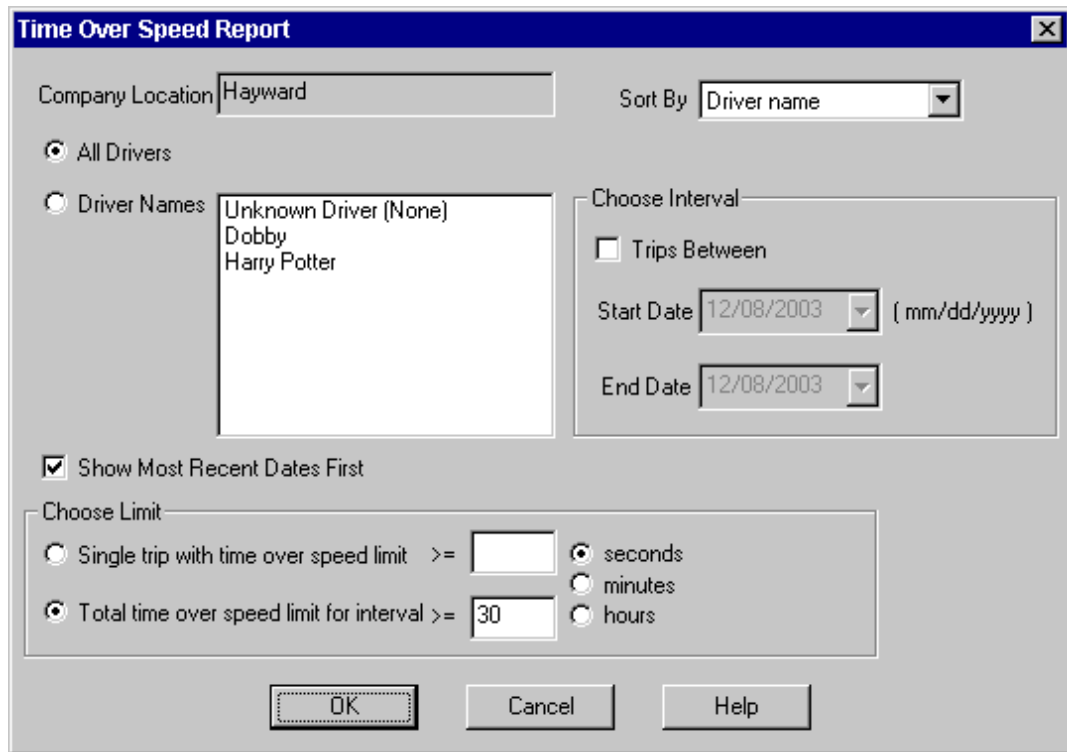
[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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** submenu 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, set the 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, 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: 

Back to [Reports Menu](#) | [Exception Reports](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Database Reports

Database Reports

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

[Vehicles Report](#)

[Trip Addresses Report](#)

[Drivers Report](#)

Back to [Reports Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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 [Current Location](#) 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: .

Back to [Reports Menu](#) | [Database Reports](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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** submenu 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: .

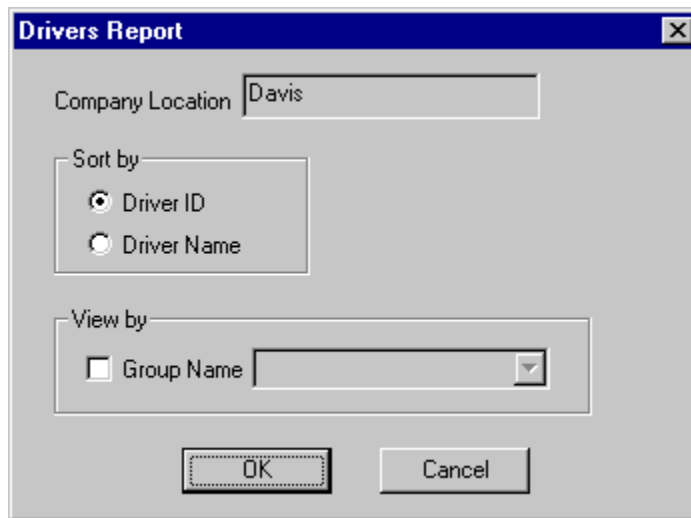
Back to [Reports Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Drivers Report

To print a Drivers Report:

1. Select **Drivers Report** from the **Database** submenu 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.
6. 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](#) | [Database Reports](#)

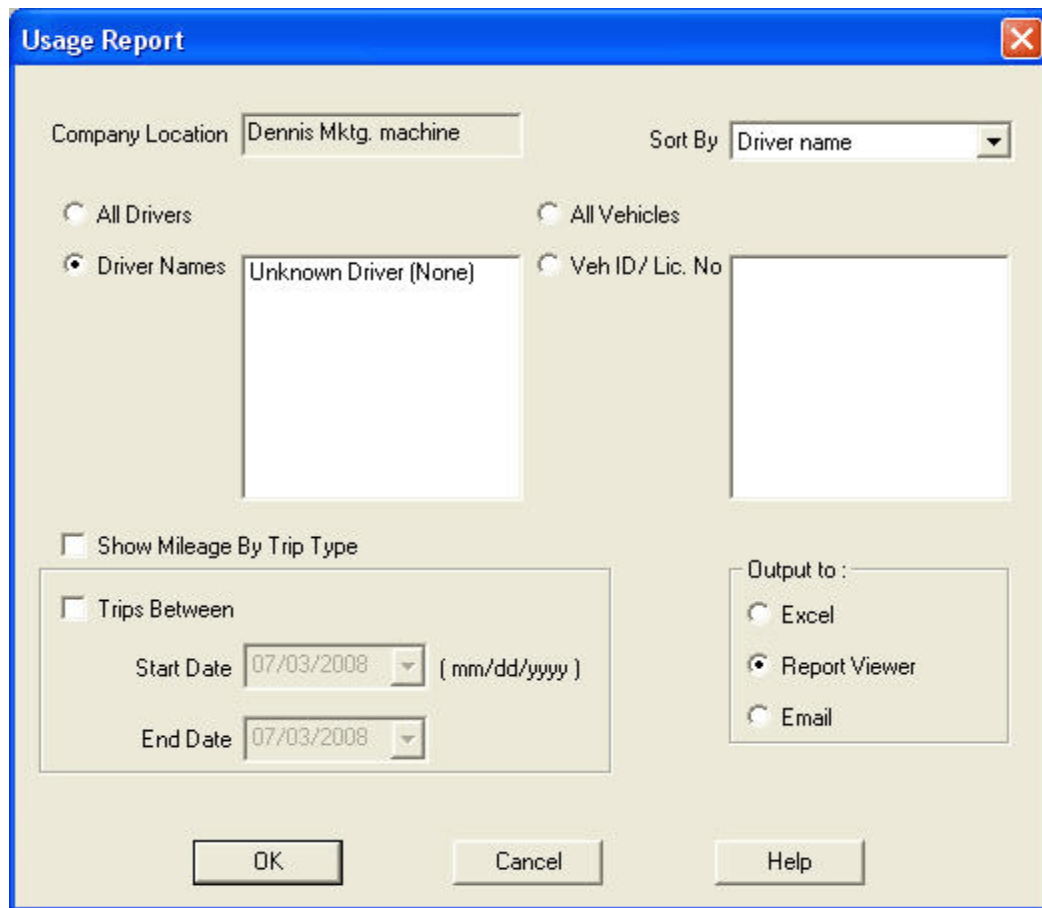
[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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.



The Usage Report dialog box has a blue title bar with the text "Usage Report" and a close button (X) in the top right corner. The main area is light beige and contains the following controls:

- Company Location:** A text box containing "Dennis Mktg. machine".
- Sort By:** A drop-down menu currently showing "Driver name".
- Driver Selection:** Two radio buttons are present: "All Drivers" (unselected) and "Driver Names" (selected). Below "Driver Names" is a list box containing "Unknown Driver (None)".
- Vehicle Selection:** Two radio buttons are present: "All Vehicles" (unselected) and "Veh ID/ Lic. No" (unselected). Below "Veh ID/ Lic. No" is an empty list box.
- Options:**
 - A checkbox labeled "Show Mileage By Trip Type" is unchecked.
 - A sub-section containing a checkbox labeled "Trips Between" (unchecked), with "Start Date" and "End Date" drop-down menus both set to "07/03/2008". A small text "(mm/dd/yyyy)" is next to the Start Date.
 - An "Output to:" section with three radio buttons: "Excel" (unselected), "Report Viewer" (selected), and "Email" (unselected).
- Buttons:** "OK", "Cancel", and "Help" buttons are at the bottom.

2. Verify the Company Location. Use the [Current Location](#) command in the **Setup** Menu to change the location if necessary.
3. Select the criteria for sorting the report from the **Sort By** 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 driver's 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 vehicle's 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 **OK** to create the report, or click **Cancel** to exit the dialog box.

Note: Use the [Night and Weekend Settings](#) dialog box to enter the night and weekend definitions used in this report.

Back to [Reports Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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, idle 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.

Trip Summary Report

Company Location: Dennis Mktg. machine

☐ All Drivers
 ☐ All Vehicles

☒ Driver Names: Unknown Driver (None)
 ☐ Veh ID/ Lic. No

☐ Show Most Recent Dates First

☒ Trips Between
 Start Date: 01/01/2008 (mm/dd/yyyy)
 End Date: 04/01/2008

Output to:

☐ Excel
☒ Report Viewer
☐ Email

OK Cancel Help

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 vehicle's 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. Select the type of output for the report: [Excel](#), [Report Viewer](#), or [Email](#).

12. Click **OK** to create the report or click **Cancel** to exit the dialog box.
13. 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](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Vehicle Activity Report

The Vehicle Activity Report provides a quick and easy-to-read summary of driver or vehicle activities.

To create a Vehicle Activity Report :

1. Select **Vehicle Activity Report** from the **Reports** Menu. The **Vehicle Activity Report** dialog box is displayed.

Vehicle Activity Report

Company Location:

☒ All Drivers
☐ Driver Names:

☐ All Vehicles
☐ Veh ID/ Lic. No:

☒ Show vehicles with distance only
☒ Highlight exceptions

Sort by:

☒ Trips Between
 Start Date: (mm/dd/yyyy)
 End Date:

Report Output:

☒ Excel
☐ Report Viewer
☐ Email

Choose Limits:

Max Speed >= miles/hr

Daily Average:

Accel/Decel Events >=
 Time Over Speed >= (hh:mm)
 Driving Time >= (hh:mm)
 Idle Time >= (hh:mm)
 Stop Time >= (hh:mm)
 Night Time >= (hh:mm)
 Weekend Time >= (hh:mm)

For Daily Vehicle Activity Report:

First Move after:
 Last Move before:

OK Cancel Help

2. Verify the Company Location. Use the [Current Location](#) command in the **Setup** Menu to change the location if necessary.
3. Select **All Drivers** to print the report for all drivers, or select **Driver Names** to create the report for specific drivers.
4. If you are creating a report for specific drivers, click on the driver's 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 vehicle's 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.
- 8. When the **Show vehicles with distance only** check box is checked, the drivers or vehicles that don't have any trip data, or the trip distance is 0 (zero), will not be shown in the report.
- 9. Select the criteria for sorting the report from the **Sort By** drop-down list.
- 10. The limit settings in the **Choose Limits** section are for display purposes only in the Vehicle Activity Report. If you select the **Highlight Exceptions** check box, these limits are available for you to change. If a driver or vehicle exceeds any limit, that value will be highlighted with red text in the report.
- 11. To specify a start date and end date for the report, check **Trips Between** and then enter the starting and ending dates.
- 12. If trip **Start Date** and **End Date** are the same, the **Daily Vehicle Activity Report** will be generated for that one day. If trip **Start Date** and **End Date** are not the same, the Vehicle Activity Report for the selected period will be generated.
- 13. Select the type of output for the report: [Excel](#), [Report Viewer](#), or [Email](#).
- 14. Click **OK** to create the report, or click **Cancel** to exit the dialog box.

Note: Use the [Night and Weekend Settings](#) dialog box to enter the night and weekend definitions used in this report.

Back to [Reports Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Graphical Day Report

The Graphical Day Report provides a quick and easy-to-read summary of driver or vehicle by day and date

To create a Graphical Day Report:

1. Select **Graphical Day Report** from the **Reports** Menu. The **Graphical Day Report** dialog box is displayed.

Graphical Day Report

Company Location:

☒ All Drivers
☐ Driver Names

☐ All Vehicles
☐ Veh ID/ Lic. No

☒ Trips Between
 Start Date: (mm/dd/yyyy)
 End Date:

☒ Show trip type with different colors

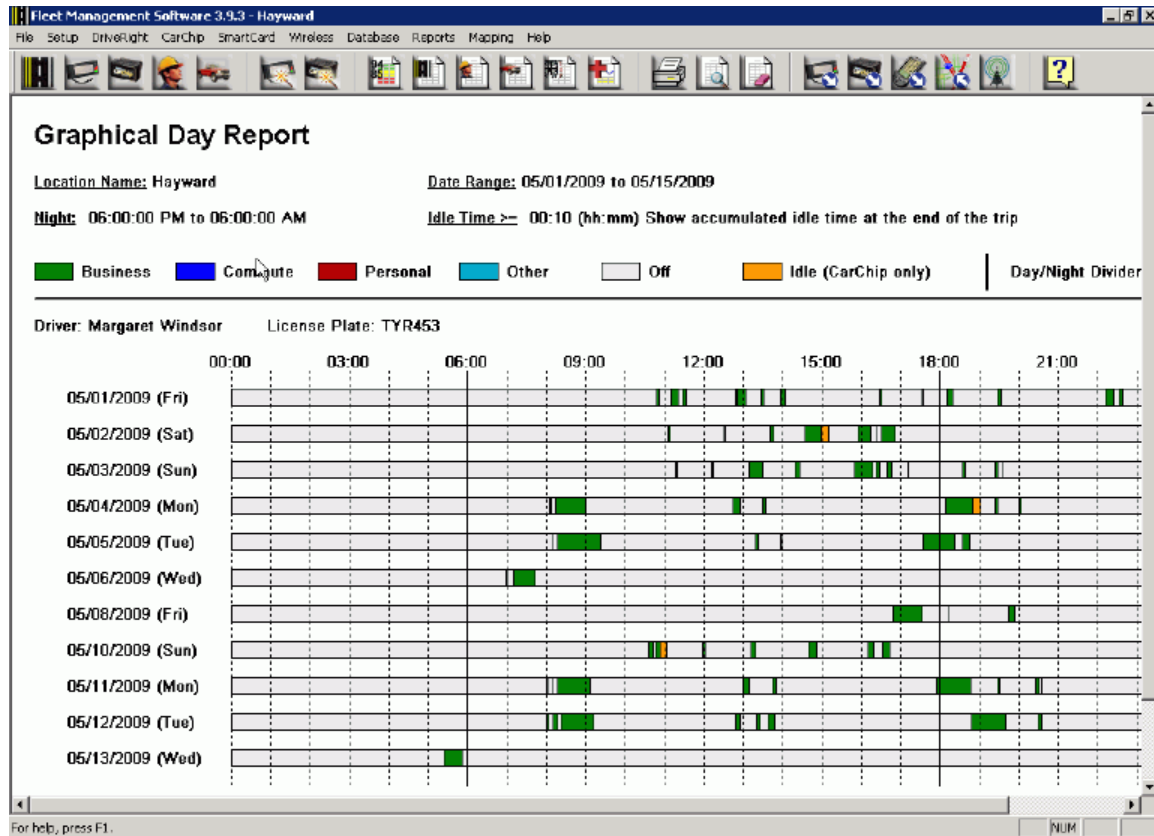
Car Chip only
 Show Idle Time >= (hh:mm) during the trip
☒ Show accumulated idle time at the end of the trip

OK Cancel Help

2. Verify the Company Location. Use the [Current Location](#) command in the **Setup** Menu to change the location if necessary.
3. Select **All Drivers** to print the report for all drivers, or select **Driver Names** to create the report for specific drivers.
 4. If you are creating a report for specific drivers, click on the drivers' names in the list.
 - Click once to select the driver; click a second time to de-select the driver.
 - Multiple drivers can be selected.
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 vehicle's ID in the list.
 - Click once to select the vehicle; click a second time to de-select the vehicle.
 - Multiple vehicles can be selected for the report.
8. To specify a start date and end date for the report, check **Trips Between** and then enter the starting and ending dates.
9. If trip **Start Date** and **End Date** are the same, the **Graphical Day Report** will be generated for that one day. If trip **Start Date** and **End Date** are not the same, the Graphical Day Report for the selected period will be generated.
10. If you would like to view trip types (Business, Commute, Personal, Other) in different colors, click the **Show trip type with different colors** box.
11. Day and Night trips (as defined in the Setup Screen > Preferences > Night and Weekend Settings) are shown divided by a line.

12. For vehicles with CarChip, you can also see idle times. Click the **Show accumulated idle time at the end of the trip** box to see a total of idle time for each trip. The graph will show any idle times equal to or longer than what you specify in the **Show Idle Time > =** box.

13. Click **OK** to create the report, or click **Cancel** to exit the dialog box.



13. 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](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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.

Tamper Logs Report

Company Location:

Sort By:
☒ Driver Name
☐ Date
☐ Show Most Recent Dates First

☐ All Drivers
☒ Driver Names

Unknown Driver (None)
Dobby
Harry Potter

☐ Tamper Logs Between
 Start Date: (mm/dd/yyyy)
 End Date: (mm/dd/yyyy)

Maximum allowed time between unplugging and downloading: (hh:mm)

Maximum allowed time between downloading and reconnecting: (hh:mm)

OK Cancel Help

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.
 - o Click once to select a driver. Click a second time to de-select.
 - o 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:



Back to [Reports Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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 or 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: .

Back to [Reports Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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:  .

Back to [Reports Menu](#)

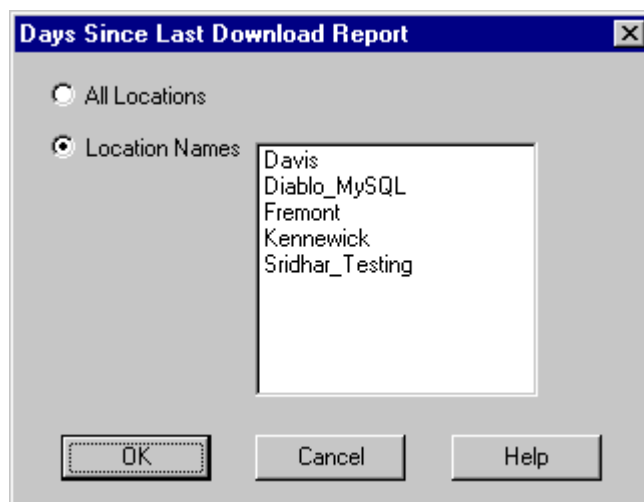
[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Days Since Last Download

The Days Since Last Download Report allows you to quickly see the number of days that have elapsed since a DriveRight or CarChip device has been downloaded into the DriveRight FMS database. The report is sorted by the number of days since the last download. Devices with the most number of days since the last download are listed first.

To create the Days Since Last Download Report:

1. Select **Days Since Last Download** from the **Reports** Menu. The **Days Since Last Download Report** dialog box is displayed.



2. Select **All Locations** to create a report for all DriveRight and CarChip devices in all locations in your database, or select **Location Names** to create a report for specific locations, then select the locations from the list.

- Click once to select a location and click a second time to clear the location from the report.
 - Multiple locations can be selected for this report.
3. Click **OK** to create the report or click **Cancel** to exit.
 - If you click **OK**, the report is displayed using the [Report Viewer](#).
 4. To print the report, use the [Print](#) command in the **File** Menu.
 5. To clear the report from the screen, use the [Clear Screen](#) command in the File Menu or click on the Clear Screen icon: .

Back to [Reports Menu](#)

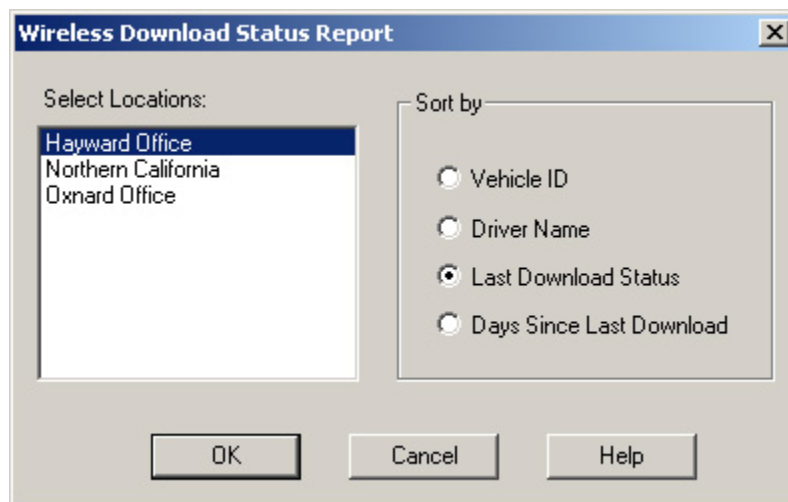
[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Wireless Download Status Report

The Wireless Download Status Report allows you to view the wireless download status for all the vehicles wirelessly linked to FMS. The report is displayed in the DriveRight FMS [Report Viewer](#).

To view the Wireless Download Status Report:

1. Select **Wireless Download Status** from the **Reports** Menu. The **Wireless Download Status Report** dialog box is displayed.



2. Select the company locations in the **Select Locations** box.
3. Select an option in the **Sort By** box by clicking the radio button next to the option. The sort options are Vehicle ID, Driver Name, Last Download Status, and Days Since Last Download.
4. Click **OK** to create the report or click **Cancel** to exit the dialog box.

5. You can clear the report by selecting [Clear Screen](#) in the **File** Menu or by clicking the

Clear Screen icon: 

Back to [Reports Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Mapping Menu

Mapping Menu

Note: DriveRight FMS Mapping requires Microsoft MapPoint, Google Earth™, or Google Maps™. To use Google Earth you must have the Google Earth application installed on your computer (go to <http://earth.google.com/> for a free download). To use Google Maps you must have any of the following three web browsers installed on your computer:

- Internet Explorer
- Firefox
- Safari

The following commands are available in the **Mapping** Menu:

[Open Map](#)

[Save Map](#)

[E-Mail Map](#)

[Select Mapping Tool](#)

[Set Speed Range](#)

See also:

[Mapping Quick Reference Menu](#)

[DriveRight FMS Mapping Requirements](#)

Back to [Menu Commands](#)

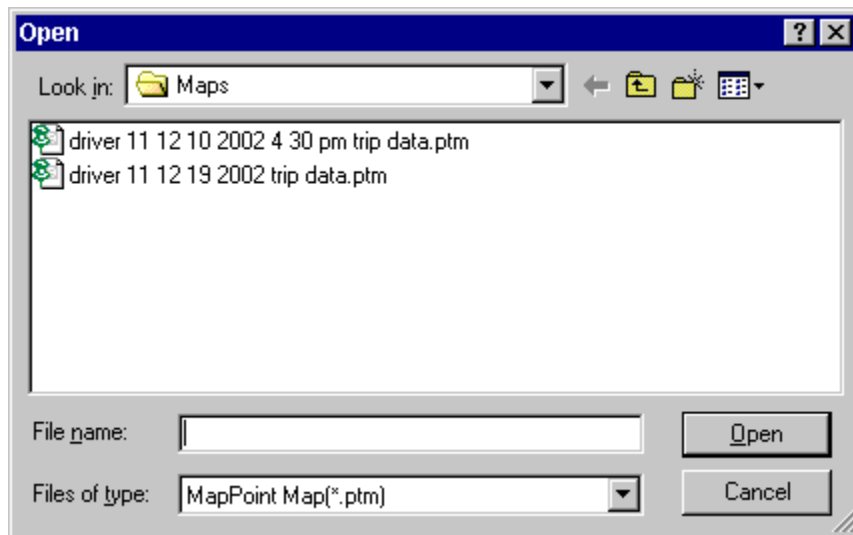
[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Open Map

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

To open a map:

1. Select **Open Map** 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.

If MapPoint is selected as the mapping tool, the map is opened in the FMS window; if Google Maps™ is selected, the map will open in a web browser; if Google Earth™ is selected, the map will open in Google Earth.

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](#)

Back to [Mapping Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

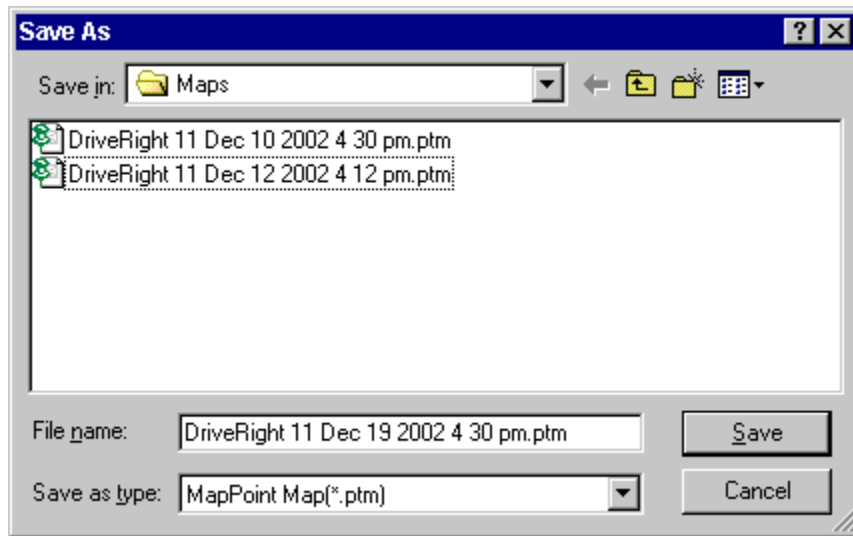
Save Map

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

Note: This command is only available if you have chosen MapPoint as your mapping tool. If you have chosen Google Earth™ or Google Maps™ as your mapping tool, maps can be saved using the menu commands provided by Google Earth or your chosen web browser.

To save a map:

1. Select **Save Map** 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:

[Viewing a Map](#)

Back to [Mapping Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

E-Mail Map

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

Note: This command is only available if you have chosen MapPoint as your mapping tool.

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 **E-Mail Map** 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](#)

Back to [Mapping Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Select Mapping Tool

Use the **Select Mapping Tool** command to select MapPoint North America, MapPoint Europe, Google Earth™, or Google Maps™.

To select your mapping tool:

1. Select **Select Mapping Tool** from the **Mapping** menu. The **Select Mapping Tool** dialog box displays.



2. Select the mapping tool by clicking its adjacent radio button.
3. Click **OK** to change the current mapping tool, or click **Cancel** to exit the dialog box without changing the mapping tool.

When a mapping tool is selected, that tool will be used for all mapping activities until you choose a different mapping tool.

Back to [Mapping Menu](#)

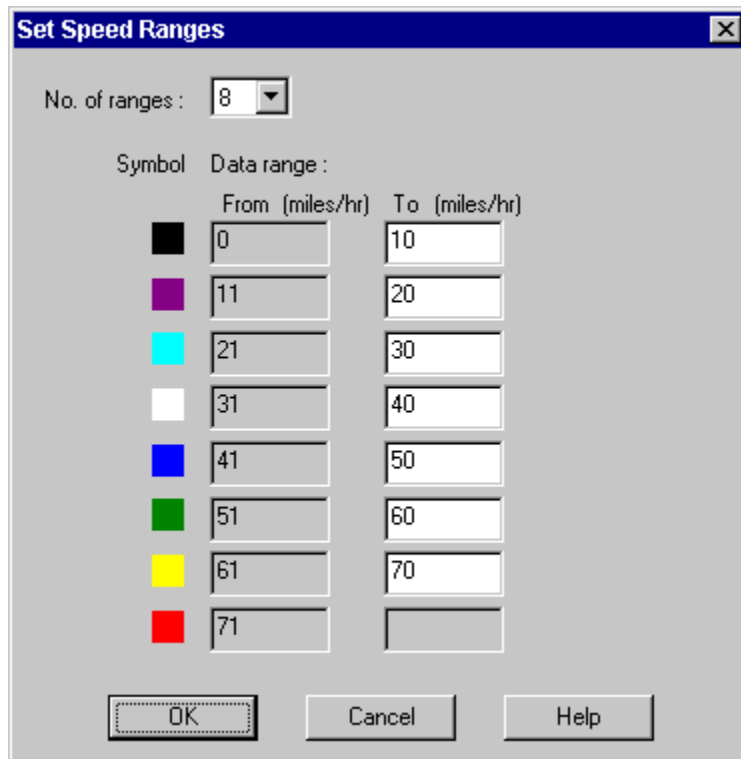
[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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** in the **Mapping** menu. The **Set Speed Ranges** dialog box is displayed.



The 'Set Speed Ranges' dialog box is shown. It has a title bar with a close button. Inside, there is a 'No. of ranges' dropdown menu set to '8'. Below this is a table with columns for 'Symbol', 'Data range', 'From (miles/hr)', and 'To (miles/hr)'. The table contains 8 rows of color-coded symbols and their corresponding speed ranges. At the bottom are 'OK', 'Cancel', and 'Help' buttons.

Symbol	Data range	From (miles/hr)	To (miles/hr)
Black	0	0	10
Purple	11	11	20
Cyan	21	21	30
White	31	31	40
Blue	41	41	50
Green	51	51	60
Yellow	61	61	70
Red	71	71	

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](#)

Back to [Mapping Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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**
Displays the program version information, the database type, and the copyright information.

Back to [Menu Commands](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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](#)

[Wireless Device Communication Problems](#)

[SmartCard Desktop Reader Device Communication Problems](#)

[Miscellaneous Problems](#)

[Contacting Davis Instruments](#)

Back to [Home](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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](#)

Back to [Troubleshooting Menu](#)

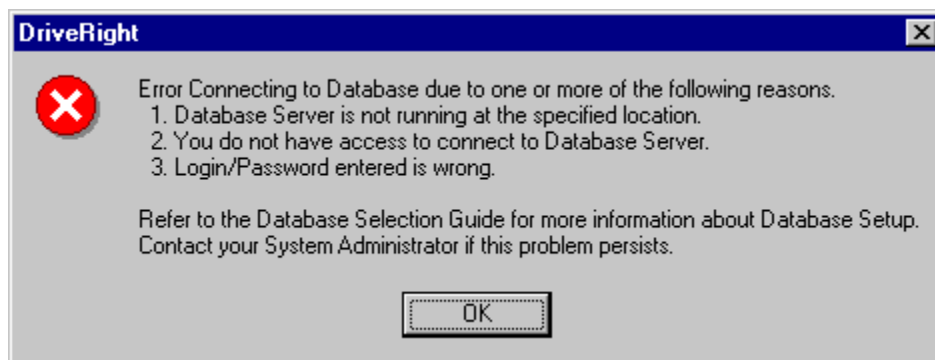
[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Database Connection Problems

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

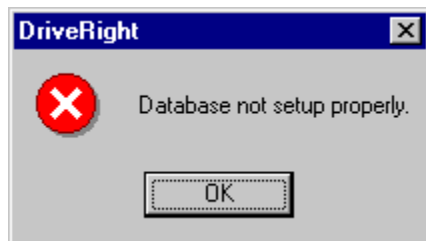
Database Setup Error

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.

Back to [Troubleshooting Menu](#)

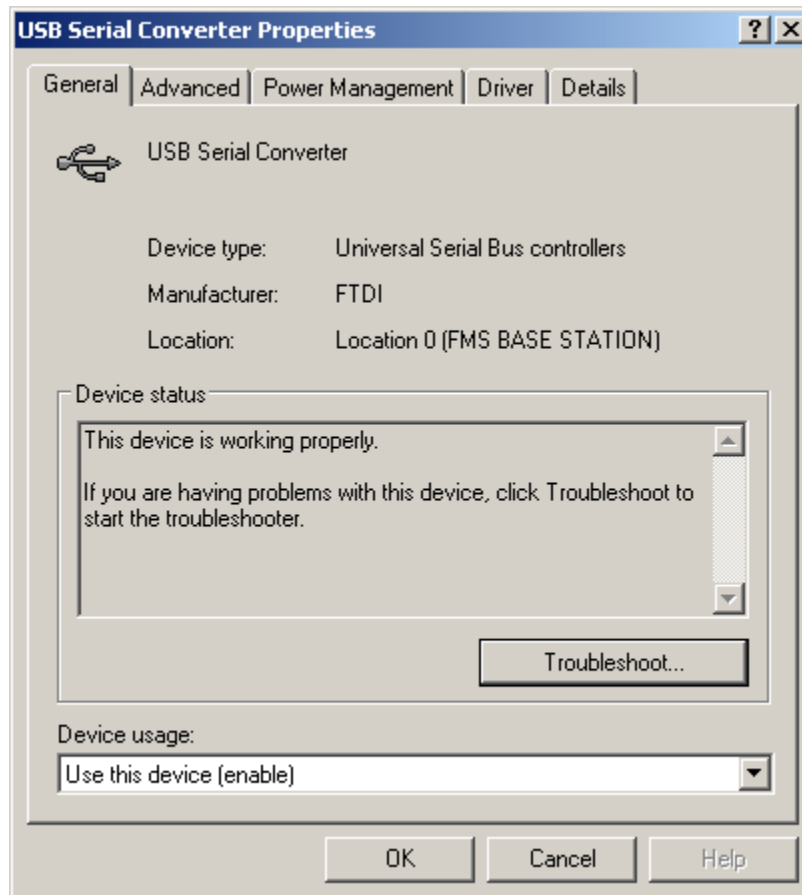
[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

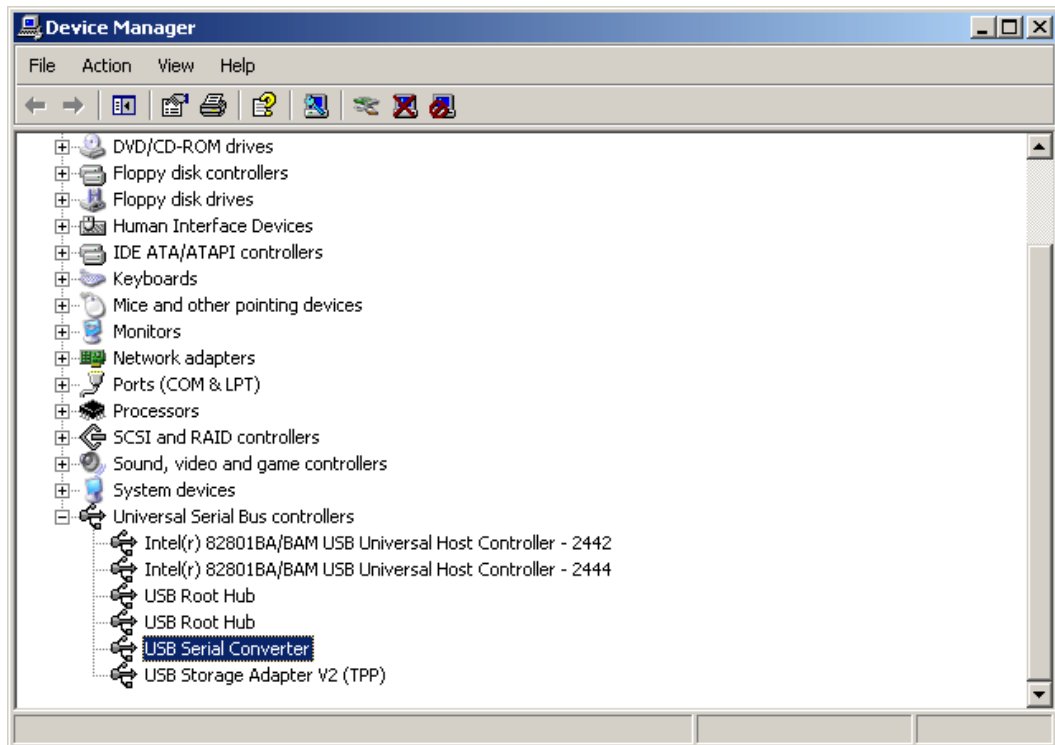
Wireless Device Communication Problems

Make sure the Base Station is connected to the USB port of the computer and the bottom LED is green. Otherwise, contact [Davis Instruments technical support](#).

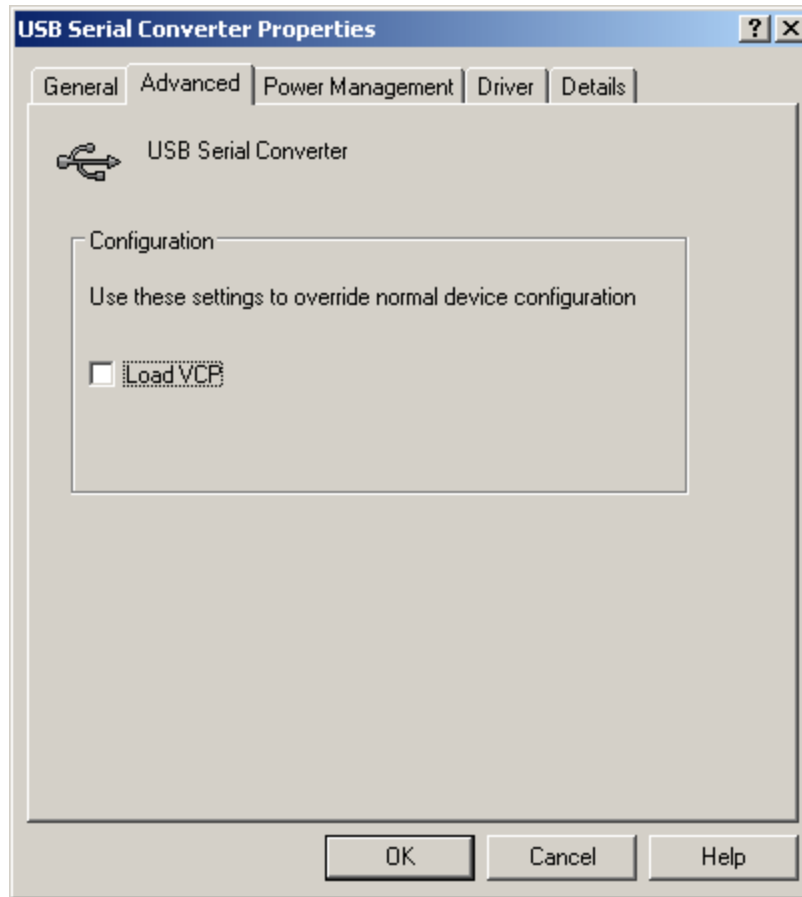
Driver installed successfully but is not communicating with the Wireless Device

1. Ensure that the Wireless Device driver is correctly installed from the CD. Go to the *Device Manager* on your computer and view the Universal Serial Bus Controllers list. Left click on the controller labelled **USB Serial Converter** and select **Properties** from the menu. If this controller is not listed, see the FMS Getting Started Guide for instructions on installing the Wireless Device Drivers. There may be multiple "USB Serial Converter" drivers listed depending on the number of wireless devices connected to the computer. The *Device Properties* dialog box displays. The Device Type displayed should be "Universal Serial Bus Controllers" and the Manufacturer displayed should be "FTDI".



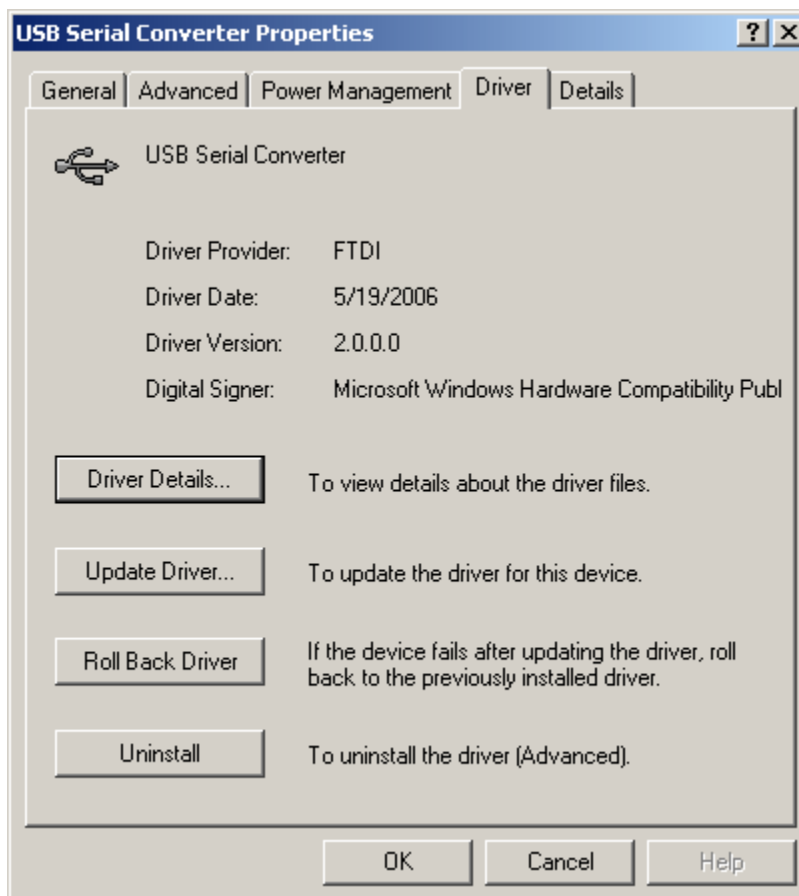


2. Select the **Advanced** Tab. In the **Configuration** box, make sure the **Load VCP** check box is unchecked.

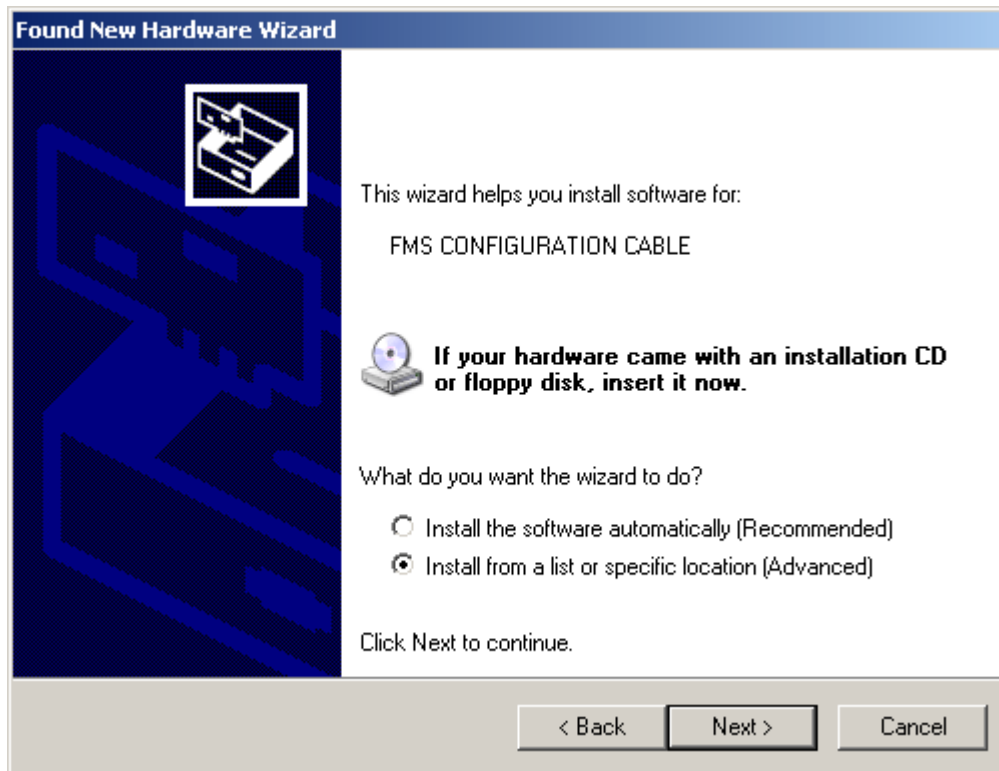


3. Select the **Driver** Tab. If the Driver Date is anything other than 5/19/2006, reinstall the Wireless Device Driver by clicking **Update Device Driver**. A [Found New Hardware](#) dialog box should display through your operating system.

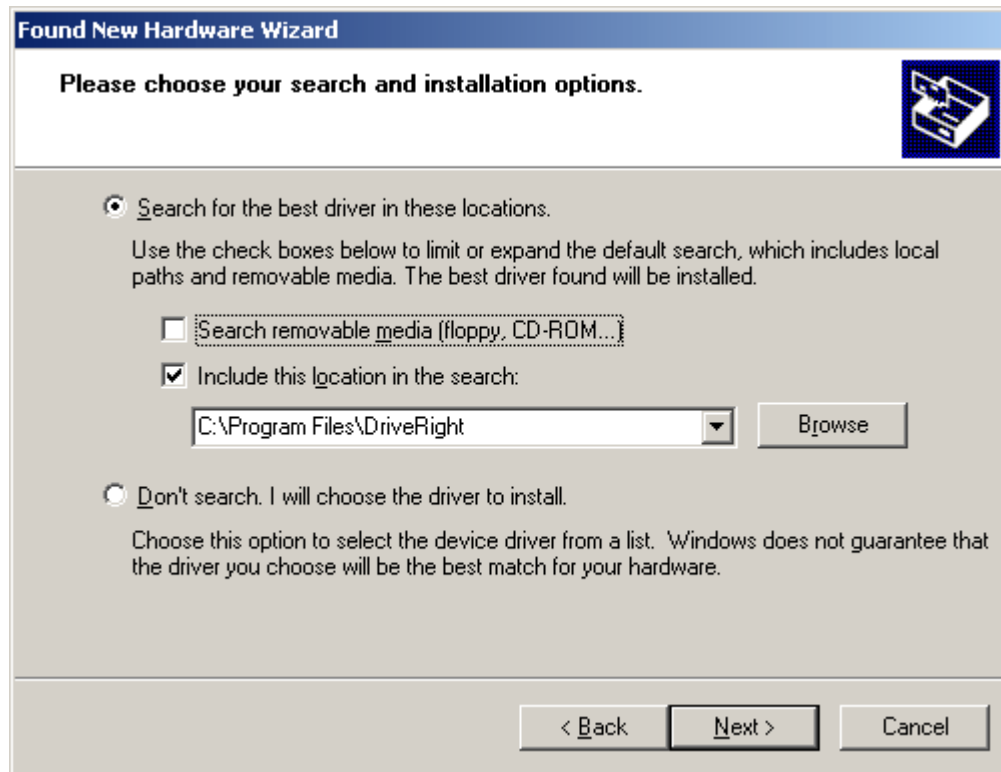
If the dialog box does not display, check the connection between the hardware and your computer, or see your operating system's documentation for more information. If the dialog box still does not display, contact Davis Technical Support for help with this problem.



4. Click the **No, not at this time** field and click **Next**. It is important that you do not allow your operating system to automatically check the web for drivers because it could install versions of drivers that may have compatibility issues with the accessory or FMS. The *second* dialog box displays.

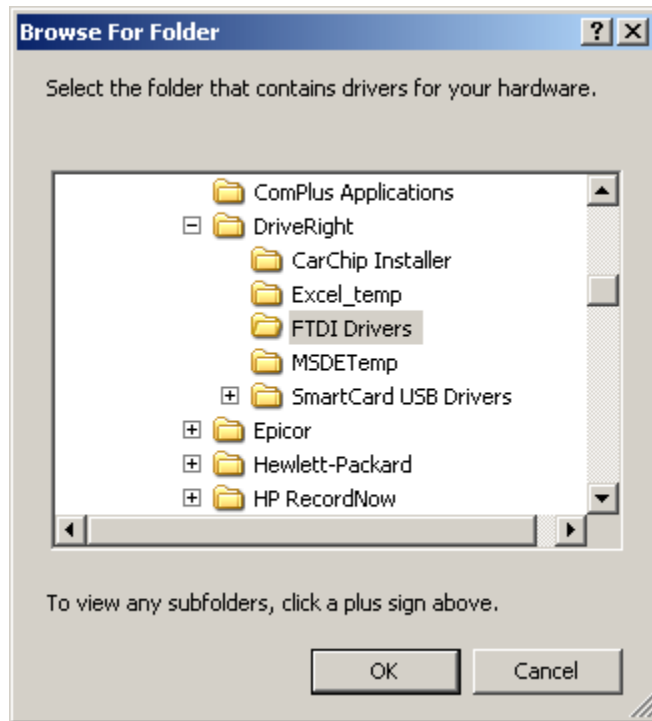


5. Click **Install from a list or specific location** and click **Next**. The *Please Choose Your Search and Installation Options* dialog box displays.



6. Click **Search** for the best driver in these locations and select the check box **Include this location in the search**.
7. Click **Browse**.
8. Navigate to the *DriveRight* directory. A list of subfolders displays.

When DriveRight FMS is installed, the drivers for the wireless devices are stored under the DriveRight directory so that they can be installed at any time wireless devices are introduced into FMS. The wireless device drivers are located in the "FTDI Drivers" subfolder.



9. Select the "FTDI Drivers" folder and click **OK**.
10. Install the driver only once, even if installing both the Base Station and the Configuration Cable. The driver works seamlessly with both.
11. Once the installation is complete, click **Finish**.
12. Test the communication between FMS and the Base Station by [Starting a Wireless Scan](#) or [Manually Downloading Wireless On-Board Modules](#). The bottom LED on the Base Station should flash orange if it is communicating successfully with the computer. If FMS is still having trouble communicating with the Base Station, contact Davis Instruments Technical support.

Base Station Drivers added successfully, still not finding vehicles

The Base Station can only communicate with the Wireless On-Board Module(s) that belong to the same location it was assigned. Check the assigned location for the Base Station and Wireless On-Board Modules in the [Wireless Devices](#) database table. If they do not share the same location, delete the device(s) and re-add them, assigning them all to the correct location.

Guidelines for setting up Wireless Devices

Use the following guidelines to ensure good communication between the Base Station and the Wireless On-Board Modules in the field.

- The path between them should be line-of-sight, and not through walls or trees, or around corners.
- The distance between the Wireless On-Board Module and the base station should be 600ft (200m) or less.
- With the wire tail up, the Wireless On-Board Module should be mounted high on the vehicle windshield and oriented as shown in the *GPS/Wireless Interface System Installation Manual*.

- The Base Station should be mounted in a high location with its antenna pointing straight up.
- The Base Station should be mounted away from any other radio transmitters or microwave ovens.

Guidelines for Extending Communication Range

- Install more than one Base Station to cover a wider area.
- Due to the limited USB cable length, use a 3rd party device to extend distance between the Base Station and the computer. Refer to the *Base Station Installation Manual* for more information.
- Using non-metallic and weather-proof housing in which to store the Base Station(s) outside.
- Place the Base Station antenna outside where it is visible to the vehicles and use a short antenna connection cable.

Back to [Troubleshooting Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

SmartCard Desktop Reader Device Communication Problems

Installing Drivers for the SmartCard Desktop Reader

The DriveRight SmartCard Desktop Reader (# 8108) works with the DriveRight SmartCard System to upload data from a DriveRight 600 or 600E to a computer running DriveRight FMS version 3.3 or later. The SmartCard Desktop Reader connects to a computer via a USB port.

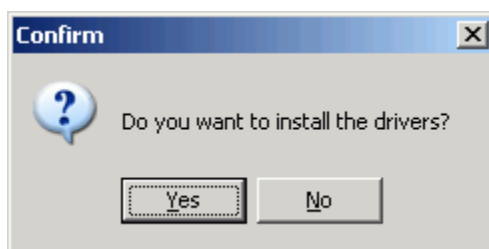
USB drivers must be installed for the SmartCard Desktop Reader to properly communicate with DriveRight FMS. This can be done during DriveRight FMS installation or at any time a SmartCard Desktop Reader is present for set up. A SmartCard Desktop Reader must be available, so it can be configured during driver installation.

Note: The following installation was completed in a Windows XP operating system. The process may vary depending on your operating system.

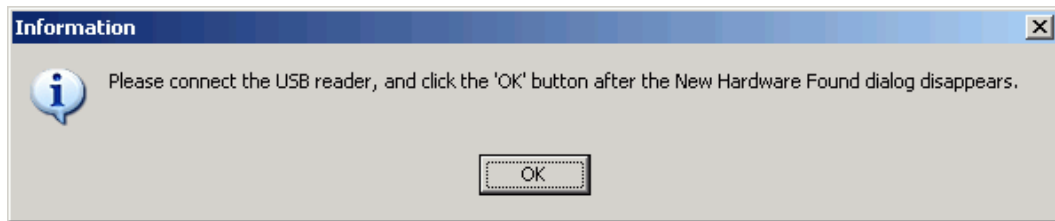
1. Navigate to the DriveRight directory via MicroSoft Windows Explorer or some other means. A list of subfolders displays.
2. Select SmartCard USB Drivers. Double-click ACS Setup.exe The *Installation Wizard* starts.



3. Click **Install**. The [confirmation](#) dialog box displays, alerting you that the driver is being installed. Click **Yes**. The [warning](#) dialog box displays.



4. Disconnect USB SmartCard Reader if it is connected and click **OK**. The [information](#) dialog displays.

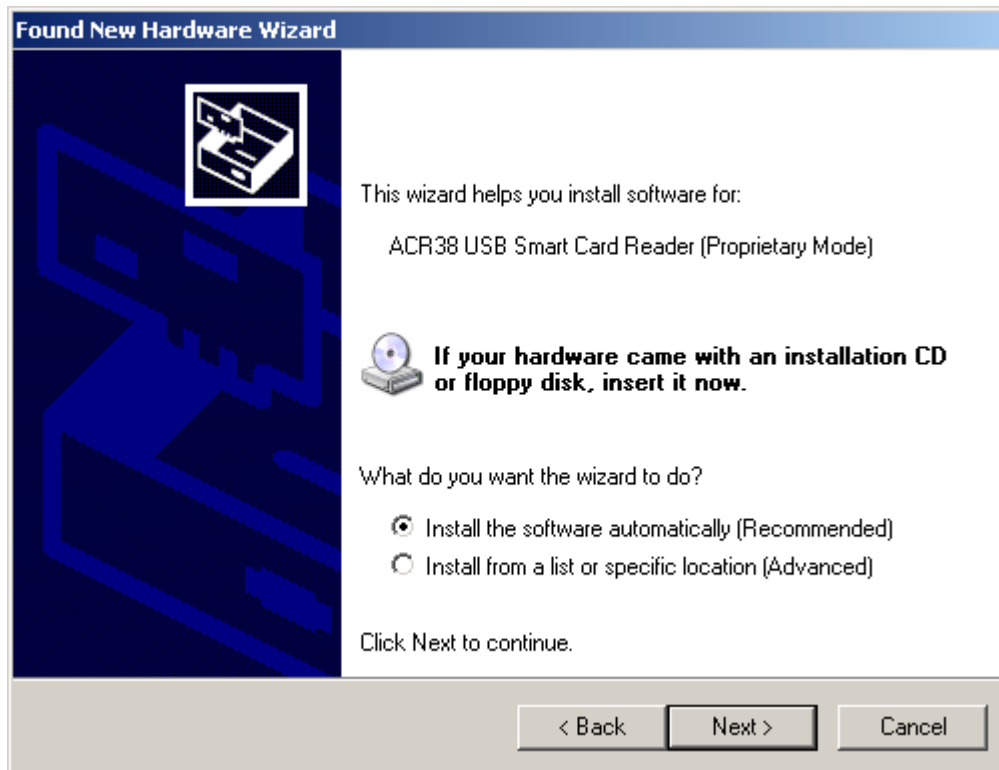


5. Plug in the accessory to an available USB Port and click **OK**. A *Found New Hardware* dialog box should display through your operating system.

If the dialog box does not display, check the connection between the hardware and your computer, or see your operating system's documentation for more information. If the dialog box still does not display, contact Davis Technical Support for help with this problem.



6. Click the **No, not at this time** field and click **Next**. It is important that you do not allow your operating system to automatically check the web for drivers because it could install versions of drivers that may have compatibility issues with the accessory or FMS. The *second dialog box* displays.



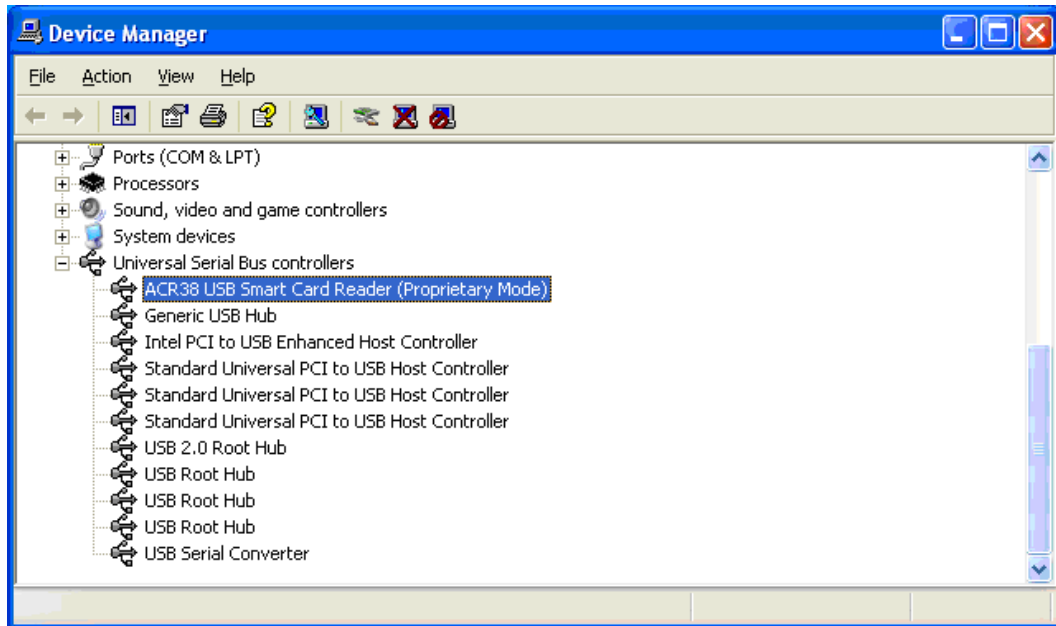
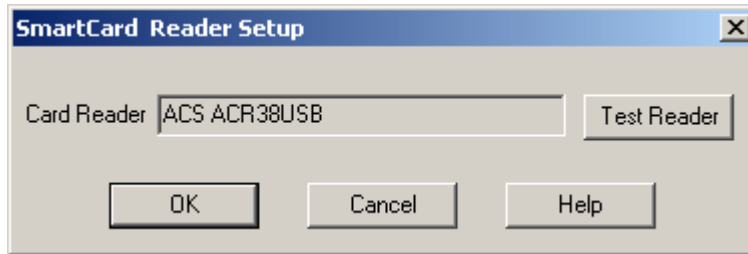
7. Click **Install the Software Automatically** and click **Next**. The *Hardware Installation* dialog box displays.



8. Click **Continue Anyway**. The new drivers install automatically.
9. Click **Finish** once the installation is complete.

Once the installation is complete, **ACR38 USB Smart Card Reader (Proprietary Mode)** should display in the *Device Manager* under the **Universal Serial Bus Controllers** list.

FMS can now properly recognize the SmartCard Desktop Reader and the correct driver displays in the *SmartCard Reader Setup* dialog box.



Back to [Troubleshooting Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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*.

Back to [Troubleshooting Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

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

DriveRight FMS User's manual

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

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Back to [Menu Commands](#) | [Troubleshooting Menu](#)

[Home](#) | [Getting Started](#) | [Quick Reference](#) | [Menu Commands](#) | [Troubleshooting](#)

Index

A

Accel Limit 124
 Accident Date Time 41, 97
 Accident Log Maintenance 215
 Accident Logs 197
 Accident Maps 38, 44, 45, 252
 Accident Report dialog box 224
 Active Database Size Recommendations .21
 Add CarChip Wizard 151
 Add DriveRight Wizard 136
 Add New Base Station 72, 182
 Add New Base Station dialog box 72, 182
 Add New CarChip 151
 Add New DriveRight 119
 Add New DriveRight Wizard 136
 Add New Wireless On-Board Module 73, 183
 Add New Wireless On-Board Module dialog
 box 73, 183
 Adding CarChips 26, 27
 Adding DriveRights 29
 Adding Drivers 26, 29
 Adding Vehicles 26, 29
 Alarm Settings 126, 174
 Architecture 11
 Auto Detect 116
 Automatic Wireless Download 79, 188

B

Background Color 110
 Backup 22, 85
 Backup Considerations 20

Backup Files 22, 85

Backup Files To dialog box 22, 85
 Backup Options 22, 85, 107
 Backup Options dialog box 22, 85
 Base Station 72, 182, 258

C

Calibrate DriveRight dialog box 30, 143
 Calibration 30, 143
 Calibration Setting dialog box 30, 143
 Calibration Settings 169
 CarChip 26, 28, 130, 151
 CarChip Alarm 158
 CarChip Alarm Dialog Box 158
 CarChip command 116
 CarChip Considerations 26, 27
 CarChip device 28, 162
 CarChip LED 157
 CarChip Memory dialog 162
 CarChip Menu .. 28, 150, 151, 156, 157, 158,
 161, 162
 CarChip Parameter Logs 213, 222
 CarChip Parameter Logs Database Table
 213, 222
 CarChip Quick Reference 26
 CarChip Reset Check Engine Light Dialog
 Box 161
 CarChip Settings 151, 162
 CarChips 197
 CarChips Database 199
 Change 103, 129
 DriveRight 129

Change Accident Log Report	224	Contact Davis Instruments.....	271
Change Current Location	102	Contacting.....	271
Change Database Browser commands...	110	Converting 2.x versions of DriveRight	13
Change DriveRight Security Settings	127	Converting DriveRight FMS	13
Change Password	105	Corporate Structure	133
Change Safety Settings.....	124	Corporate Structure Setup.....	133
Change User Login.....	103	Corporate Structure Setup dialog box	133
Check Accident Logs Between.....	216	Create Accident Log Report	224
Check Days Between	218	Create Default DriveRight Settings Wizard	119
Check Download Dates Between.....	219	Create Driver Performance Score Report	225, 227
Check GPS Between.....	220	Create Excessive Speed Report.....	229
Check Tamper Logs Between	217	Create Hard Braking Report	232
Check Trips Between	215	Create Night Driving Report.....	230
Choose Interval.....	232	Create Odometer Report	248
Clear	150	Create Trip Summary Report.....	240
Clear DriveRight	150	Create Usage Report.....	238
Clear Screen.....	101	Create Vehicle Report	236
Clear Transfer Data	180	Creating a Day Map.....	38
Clock Adjustment.....	179	Creating a Trip Map	37
COM Port.....	112	Creating an Accident Map	38
Commands Menu	84	Creating Maps.....	36, 254
Communication Problems	257	Current Location	102
Communications Port	111, 112	Customer Service Department	271
Communications Port DriveRight Settings	117	D	
Communications Port DriveRight Settings dialog box.....	117	Data	19
Communications Port Settings	117	Data Management Reference Menu.....	19
Company Location.....	197, 198, 224	Database.....	11, 28, 102, 236, 250
Company Locations.....	133	Database Backup.....	20
Company Locations Database	198	Database Browser	110
Connect	112	Database Browser commands.....	110

Database Connection Problems.....	258	Default DriveRight Wizard dialog box.....	119
Database Menu	197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 211, 213, 215, 222	Default Software Method	225
Database Report.....	236	Default Unit Settings	122
Database Selection Guidelines	12	Define Night	230
Database Servers	11	Delete Accident Logs	216
Database table.....	198, 199, 200, 201, 206, 207, 209, 211, 215	Delete All.....	218
Database type.....	11	Delete Data	216
Database->Company Locations	102	Delete Days	218
Date	145, 219	Delete Download Dates dialog box.....	219
Date dialog.....	145	Deleting Days.....	218
Date Dialog Box.....	145, 156	Deleting GPS	220
Davis Instruments	271	Deleting Odometer Logs	222
Davis Instruments Technical Support.....	257	Deleting Odometer Logs dialog box	222
Day Maps.....	38, 44, 51, 252	Deleting Tamper Logs	217
Days.....	197, 206, 218	Deleting Trips.....	215
Days Between.....	218	Detect Modem.....	111
Days Database Table	206	Device	28
Days Maintenance	215	Device Communication	257
Days Since Last Download.....	250	Device Communication Problems.....	257
Days Since Last Download Report.....	250	Digital Input labels.....	132
Default CarChip Settings	130	Digital Input Labels dialog box.....	132
Default DriveRight Settings	119, 121	Display CarChip Memory	162
Default DriveRight Settings dialog box....	121	Distance Unit.....	122
Default DriveRight Settings For Fleet.....	126	Download	28, 29
Default DriveRight Settings For Fleet dialog	122, 127	Download CarChip.....	26, 28, 156
Default DriveRight Settings For Fleet dialog box	124, 125	Download Dates.....	197, 207, 219
Default DriveRight Settings Menu	119	Download Dates Database Table	207
Default DriveRight Settings View/Set	121	Download Dates Maintenance	215
Default DriveRight Settings Wizard	119	Download DriveRight	29, 33, 138
		Download Options.....	107
		Download Options dialog box	107
		Download Palm.....	34

Download Status.....	33, 138	DriveRight Set Date	145
Downloading	26	DriveRight Set Time.....	145
Downloading CarChip.....	32	DriveRight Settings	30, 31, 122, 124, 125, 127, 129, 140, 142, 143, 145
Downloading CarChip Guidelines.....	32	DriveRight Tables	91
Downloading Data dialog.....	28, 156	Drivers.....	197
Downloading Requirements	32	Drivers List.....	148, 178
Driver	28, 110, 201	Drivers Report.....	237
Driver Database table	201	Drivers Report dialog box	237
Driver Groups	197, 200	E	
Driver Groups Database table	200	Edit Default DriveRight Settings	121
Driver ID Logout Time	125	Edit DriveRight.....	198
Driver Performance Score	225, 227	Edit Drivers Group	200
Driver Performance Score dialog box	225, 227	Edit Fleets	202
Driver Performance Score Report ...	225, 227	Edit GPS	207
Driver Reports.....	236	Edit Odometer Log.....	208
DriveRight..	1, 26, 29, 30, 89, 106, 110, 140, 148, 150, 197, 198	Edit Tamper Log	205
DriveRight Accident Log	144	Edit Trip.....	203
DriveRight Calibration Message dialog	30, 143	Edit Vehicle	202
DriveRight Configuration	29	Email Maps	254
DriveRight Database table.....	198	End Date	224
DriveRight Device Settings dialog box	140	Enter Top Speed.....	229
DriveRight Fleet Management Software	1	Erase.....	181
DriveRight FMS 3.8	2	Exception Reports...	228, 229, 230, 232, 234
DriveRight FMS Report Viewer	250	Excessive Speed	229
DriveRight ID	224	Excessive Speed Report	229
DriveRight list.....	148	Excessive Speed Report dialog box.....	229
DriveRight menu	30, 31, 33, 34, 127, 129, 135, 136, 138, 140, 142, 143, 144, 145, 146, 147, 148, 150	Exit	101
DriveRight Palm Download Kit	34	Exit Host Mode.....	110
DriveRight Quick Reference	29	Exit Hyper Terminal	112
		Export Accident logs To dialog box	41, 97
		Export Accidents	25, 93

- Export button99
- Export Commands99
- Export File Name99
- Export GPS..... 25, 39, 93, 96, 203
- Export GPS To dialog box39, 96
- Export menu25, 39, 93, 96
- Exporting..... 39, 41, 96, 97, 99
- F**
- FIELD MODEM.....112
- File Menu . 22, 23, 39, 41, 42, 85, 87, 89, 91, 92, 94, 96, 97, 99, 100, 101, 112
- Filter For Deleting Accident Log dialog box216
- Filter For Deleting Accident Logs216
- Filter for Deleting CarChip Parameter Logs222
- Filter For Deleting Days dialog box218
- Filter For Deleting Download Dates.....219
- Filter For Deleting Download Dates dialog box219
- Filter For Deleting GPS dialog box.....220
- Filter For Deleting Odometer Logs dialog box222
- Filter For Deleting Tamper Logs.....217
- Filter For Deleting Tamper Logs dialog ...217
- Filter For Deleting Tamper Logs dialog box217
- Filter For Deleting Trips215
- Filter For Deleting Trips dialog box.....215
- Filter for Wireless Download Status Report dialog box.....251
- Fleets125, 197, 202
- FMS1, 19
- FMS Menu Commands.....17
- FMS Quick Reference19
- FTP 89, 94
- FTP Export..... 25, 93, 94
- FTP Export dialog box 94
- FTP Host Name 94
- FTP Import..... 89
- FTP Import dialog box 89
- FTP site..... 89, 94
- G**
- Getting Started 1
- Google Earth..... 255
- Google Maps..... 255
- GPS ... 21, 31, 39, 41, 96, 97, 142, 197, 203, 207, 220, 255
- GPS dialog box 220
- GPS Fields dialog box 39, 96
- GPS Logging..... 31, 142, 255
- GPS Maintenance..... 215
- GPS Plot Information 42, 71, 92, 252
- GPS Settings 129, 177
- GPS to Mapping Software 39, 96
- Guidelines 28, 32
- H**
- Hard Braking 232
- Hard Braking Report 232
- Hard Braking Report dialog box..... 232
- Help Menu..... 256
- Help Topics 256
- Help Topics window 256
- Host..... 107, 110, 112
- Host Mode..... 107, 110, 111, 112
- Host Mode Menu..... 110
- Host Mode On..... 110, 112

Host Mode Setup	111, 112
HOST MODEM	112
How To menu	19
Hyper Terminal	112
I	
Icons	17
Identification Settings	168
Import Data From.....	91
Import dialog box	91
Import Menu.....	26, 89
Importing GPS Plot Information.....	42, 92
Index	256
Installing Drivers	266
Introduction	1
L	
Location ID.....	107
locations.....	133
Logging Interval	31, 142
Login	103
Login dialog box.....	103
Logout.....	125
M	
Main Menu	84
Maintenance .. 215, 216, 217, 218, 219, 220, 222	
Manual Wireless Download	81, 190
Mapping Menu.....	36, 37, 38, 42, 43, 44, 45, 51, 61, 69, 70, 71, 92, 252, 253, 254, 255
Mapping Requirements	70
Mapping Software.....	39, 96
MapPoint Version	255
Menu	19, 133

Menu Commands Menu.....	36, 70, 84
Microsoft Access.....	12
Microsoft Desktop/Data Engine	12
Microsoft SQL Server	12
Miscellaneous Problems	270
MS Access	11, 12
MS SQL Server.....	12
MSDE.....	11, 12
Multi-User Databases	12
My SQL	11
MySQL	12
N	
Navigating Maps	36, 43, 254
New Password dialog box	105
New Wireless On-Board Module	73, 183
Night and Weekend Settings	109
Night and Weekend Settings dialog box.....	109
Night Driving	230
Night Driving Report.....	230
Night Driving Report dialog box	230
O	
ODBC.....	11
Odometer	208, 222, 248
Odometer Logs	197, 208, 222
Odometer Logs Maintenance	215
Odometer Logs Table	146
Odometer Readings.....	147, 248
Odometer Report	248
Odometer Report dialog box.....	248
Opening Maps.....	252
Operating Region.....	75, 196
Options.....	21, 26, 27, 29

- Oracle11, 12
- Other Import Commands91
- P**
- Palm.....34
- Palm Download.....34
- Parameters237
- Password103, 104, 105
- Pin Code127
- Plot Information.....42, 71, 92
- Preferences106, 107, 110
- Preferences Menu106
- Print100
- Print Preview.....100
- Print Setup101
- Prior Release Notes3
- R**
- Read Accident Log144
- Read Tamper Log.....145
- Readiness Code Filter211
- Readiness Codes197, 211
- Record197, 205
- Reinitialize Modem110
- Relationship Report250
- Release Notes3
- Remote Download Kit.....110
- Remote Modem Kit.....112
- Remote Modem Setup.....112
- Report..... 224, 234, 236, 237, 250
- Reports Menu 109, 224, 225, 227, 228, 229,
230, 232, 234, 236, 237, 238, 240, 247,
248, 250, 251
- Reset Check Engine Light161
- Restore 23, 87, 142
- Restore DriveRight Settings 142
- Restore DriveRight Settings dialog..... 142
- Restore Files..... 23, 87
- Restore Files From dialog..... 23, 87
- Restore Files From dialog box..... 23, 87
- Review 119
- View/Set command 119
- Root Location..... 133
- S**
- Safety Score 197, 208
- Safety Settings..... 124, 173
- Save Map..... 253
- Scan Wireless On-Board Modules.... 76, 185
- Scan Wireless On-Board Modules dialog
box..... 76, 185
- Search..... 256
- Seconds 156
- Security Settings..... 127, 175
- Select Accident Log Report 224
- Select Change Password 105
- Select Default DriveRight Settings.. 119, 121
- Select Download Dates 219
- Select Download DriveRight..... 33, 138
- Select Driver Performance Score Report
..... 225, 227
- Select DriveRight Settings..... 122, 124, 126,
129, 140
- Select Drivers Report..... 237
- Select Excessive Speed Report 229
- Select Fleet Defaults..... 122
- Select GPS 39, 96
- Select Mapping Tool 255

Select Night Driving	230	Set Speed Ranges.....	255
Select Odometer Report.....	248	Set Time.....	145, 156
Select Operating Region	75, 196	Set Timer Settings	125
Select Operating Region dialog box ..	75, 196	Set Unit Settings	122
Select Read Tamper Log.....	145	Setup.....	102, 103, 104, 105, 106, 107, 110, 111, 112, 116, 121, 122, 124, 125, 127, 132
Select Relationship Report.....	250	Setup Automatic Wireless Download	79, 188
Select Set Odometer	146	Setup Automatic Wireless Download dialog box.....	79, 188
Select Set Service Alarms	147	Setup GPS	31, 142
Select Set Time	145	Setup GPS Logging Interval dialog box...	31, 142
Select Setup Wizard	119	Setup Menu....	102, 103, 104, 105, 106, 107, 110, 111, 112, 116, 117, 118, 119, 121, 122, 124, 125, 127, 132, 133, 164, 166, 180
Select Tamper Logs	217	Setup Overview.....	15
Select Tamper Logs Report.....	247	Setup/Host Mode menu	112
Select Trip Summary Report	240	Single-User Databases	12
Select Vehicles Report	236	SmartCard.....	118, 163, 164, 166, 168, 169, 170, 171, 173, 174, 175, 177, 178, 179, 180
Serial Port Settings dialog	116	SmartCard Download	163, 266
Service Schedule.....	147	SmartCard Drivers	266
Set CarChip Alarm.....	158	SmartCard Erase	181
Set CarChip Date.....	156	SmartCard Menu....	163, 164, 166, 168, 169, 170, 171, 173, 174, 175, 177, 178, 179, 180, 181, 266
Set CarChip LED	157	SmartCard Reader.	118, 163, 164, 166, 168, 169, 170, 171, 173, 174, 175, 177, 178, 179, 180, 181, 266
Set CarChip LED Dialog Box.....	157	SmartCard Reader Communication.....	266
Set CarChip Time	156	SmartCard Reader Communication Problems	266
Set Current Location dialog box	102	SmartCard Reader Setup	118, 164
Set Date.....	156	Software Problems.....	258
Set DriveRight Settings	140	SQL	11
Set Drivers List	148		
Set Drivers List dialog box.....	148		
Set GPS Logging.....	31, 142		
Set Odometer	146		
Set Odometer dialog box.....	146		
Set Service Alarms	147		
Set Service Alarms dialog	147		
Set Service Alarms dialog box.....	147		

- SQL Server 11
- Start Manual Wireless Download 81, 190
- Start Manual Wireless Download dialog box 81, 190
- Super User..... 103, 104
- Synchronization 107
- T**
- Tables 197
- Tamper Log 145, 205, 217
- Tamper Log Maintenance..... 215
- Tamper Logs Report..... 247
- Tamper Logs Report dialog box 247
- Technical Support..... 271
- Time Over Speed..... 234
- Timer Settings..... 125, 171
- Toolbar..... 17
- Toolbar Icons 17
- Transfer 111
- Transfer Protocol 89, 94
- Transfer To DriveRight .. 166, 168, 169, 170, 171, 173, 174, 175, 177, 178, 179
- Transfer To DriveRight Clock Adjustment 179
- Transfer To DriveRight Drivers List 178
- Transfer To DriveRight Settings 166, 168, 169, 170, 171, 173, 174, 175, 177, 178, 179
- Trip..... 203, 205
- Trip Addressees..... 237
- Trip Addresses..... 197, 205
- Trip Addresses Report..... 236, 237
- Trip Maintenance..... 215
- Trip Map Features 61
- Trip Maps..... 37, 44, 61, 71, 252
- Trip records..... 203, 215
- Trip Summary Report 240
- Trip Summary Report dialog box 240
- Trips 197
- Trouble Codes 197, 209
- Trouble Codes Database Table..... 209
- Trouble Codes Dialog Box..... 209
- Troubleshooting 257, 258, 270
 - Menu 257
- U**
- Unit Preferences 106
- Unit Settings..... 122, 170
- Units dialog box 106
- Upgrade Base Station Firmware..... 82, 194
- Upgrade Firmware 82, 194
- Upgrade Wireless Device Firmware . 82, 194
- Upgrade Wireless On-Board Module Firmware 82, 194
- Usage Report..... 109, 238
 - change..... 109
 - create 238
- Usage Report dialog box 238
- Use CarChip Menu 150
- Use DriveRight Menu..... 135
- User Name..... 103
- Users..... 103, 104, 105
- Users Browse/Add 104
- Users Change Password 105
- Users Login..... 103
- Users Menu..... 103
- Using the DriveRight Menu 135

V

Vehicle	28, 202
Vehicle Activity Report.....	242
Vehicle Activity Report dialog box	242
Vehicle Browse window	202
Vehicle Report	236
Vehicles	197
Vehicles Report	236
Vehicles Report dialog box	236
Verify DriveRight Calibration	30, 143
View DriveRight Settings	140
View Odometer Report	248
View Relationship Report	250
View Tamper Logs Report.....	247
View Timer Settings.....	125
View Trip Addresses Report.....	237
View Unit Settings.....	122
View/Set.....	119, 121, 140

Viewing GPS Plot Information	71
------------------------------------	----

Viewing Maps. 36, 37, 38, 43, 44, 45, 51, 61, 71, 252, 254
--

W

Welcome	1
---------------	---

What's New	2
------------------	---

Wireless Device Communication	258
-------------------------------------	-----

Wireless Device Operating Region... 75, 196

Wireless Devices	258
------------------------	-----

Wireless Devices Database	201
---------------------------------	-----

Wireless Download	79, 188
-------------------------	---------

Wireless Download Status.....	192, 251
-------------------------------	----------

Wireless Download Status dialog box	192
--	-----

Wireless Download Status Report.....	251
--------------------------------------	-----

Wireless Menu ... 72, 75, 76, 79, 81, 82, 181, 182, 185, 188, 190, 192, 194, 196
--

Wireless On-Board Module.....	73, 183, 258
-------------------------------	--------------

Wireless Quick Reference Menu	71
-------------------------------------	----