

MobileView Fleet Manager User Manual

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Chapter 1 Introduction

Summary

This chapter gives you an overview of the Fleet Manager software. It summarizes the functions and lists the system requirements for Fleet Manager.

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About this manual

The MobileView Fleet Manager User Manual introduces the system and explains:

- How to install the software
- How to use the software with the MobileView equipment
- How to contact technical support

To use this document effectively, you should have:

- A basic knowledge of CCTV systems and components
- A basic knowledge of computers and networks

Read these instructions and all related documentation before installing or operating this product. The most current versions of this and related documentation are available from technical support. Refer to "**Technical support**" on page 54 for instructions on contacting technical support.

Note: This manual describes how to use the Fleet Manager software. For specific information on MobileView digital video recorders (DVRs), please refer to the appropriate user manual for your model.

Product overview

MobileView is a digital video recording system (DVR) designed for vehicles such as inner-city transit buses or paratransit vans, light passenger rail, and other transit vehicles. The central component of the MobileView system is a highquality DVR, which records images from up to 16 cameras (monochrome or color) with dual-channel audio along with information such as the time, date, and vehicle identification. Three software applications support and add value to a MobileView solution: Video Manager, AutoArchiver, and Fleet Manager.

Video Manager is primarily used to review surveillance and event-based video stored on the DVR and in local or remote archive files. Video Manager is also used to configure MobileView operating parameters.

AutoArchiver is a server-based application that automates many of the data transfer functions found in Video Manager. The application also collects health and status of online MobileView units. The automated functions and collected information are realized and accessible through the Fleet Manager application.

Fleet Manager is a client-based application used with AutoArchiver. The application provides a GUI interface to configure the AutoArchiver's automated functions, and review health and status information from compatible MobileView recorders. When deployed alongside Video Manager, operators can easily review, investigate, download, and archive a wide array of live and historic data.

The GUI uses a tabular display format along with a variety of context-sensitive menus to simplify management MobileView equipped vehicles.

Features

Fleet Manager does the following:

- Automatically schedules and downloads CCTV bookings when vehicles are available at the garage.
- Receives CCTV bookings from authorized staff and schedules numerous simultaneous data requests from multiple vehicles.
- Performs multiple concurrent downloads and sends an e-mail notification that new information is ready for review.
- Automatically downloads driver-tagged events (such as panic button activations) and notifies response staff.
- Transfers, consolidates, and manages surveillance data from a fleet of MobileView systems within the same network.
- Provides remote access to centralized fleet CCTV data.
- Uses wireless-and-fixed LAN infrastructure to transfer CCTV and other vehicle operating data across the network.
- Performs daily status checks and reports on the condition of hard drive units, CCTV capture equipment, power supply modules, fans and cooling systems, central processor units, and other equipment.
- Performs automated, periodic snapshot of camera images to help owners verify camera alignment and image quality.

System requirements

The minimum requirements for the Fleet Manager software are:

- Windows XP OS with SP2 and all current updates (or Vista)
- .NET Framework SP1.1 and 2.0
- Intel Core 2 dual 2.4 GHz recommended
- Intel 945 chipset recommended
- 2 GB recommended
- SVGA monitor (1024 x 768 pixel resolution)
- NVIDIA 8XXX series GPU, 9XXX series recommended)

- 160 GB hard disk space (360 GB recommended)
- DVD-RW drive
- Ethernet crossover cable

Other requirements

You will also need:

- A depot server with AutoArchiver software
- A network LAN
- Windows 2003 Server (to install AutoArchiver software)
- Wireless connection to the MobileView DVR

AutoArchiver software installation is described in the following section. For further information regarding the depot server, please contact our Technical Support department. Contact details are listed at the end of the manual.

Chapter 2 Installation

Summary

This chapter gives instructions for installing Fleet Manager and AutoArchiver.

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Installing AutoArchiver

AutoArchiver is the backend server application for the MobileView Garage Archive Management System. The application is provided on the same CD as the Fleet Manager and Video Manager applications.

AutoArchiver is installed on a file server running Windows 2003 Server Standard Edition. The server is commonly called the Depot Server. Running a server class OS provides several data protection options not found in a desktop OS. These include high security credential authentication and built-in RAID for high availability and data backup.

Caution:

- AutoArchiver may not be installed on the same computer as Video Manager.
- AutoArchiver is not supported on Windows Small Business Server.

Fleet Manager is not normally loaded to the Depot server.

To install AutoArchiver:

- 1. Insert the installation CD into the CD drive.
- 2. When the launch screen opens, select AutoArchiver from the list of options.
- 3. On the Welcome page, click Next.
- 4. Select whether to restore all options to factory default or to uninstall the previous version.

Both "Restore to factory defaults" and "Uninstall previous version" apply to systems with a pre-existing or current installation.

Restore to factory defaults will restore customized system configurations back to defaults before the new installation begins. This eliminates incompatible or archaic configurations settings.

Uninstall previous version will initiate the previous version uninstall routine to facilitate removal of the previous version. Upon completion of the uninstall process, the new install will resume.

5. Supply Customer Configuration details as shown below and click Next.

		-
Corporation:	General Electric Company	
Depot:	mvserver	
Region:	USA	
Days between camera check:	1	
DVS file share name:	CCTVData	
AutoArchiver Account Password:	GEMV405	-

- 6. Supply e-mail addresses to send the specified information to Email Configuration page, and click Next.
- 7. Select whether to perform camera check testing.

Camera check testing has specific requirements to work properly and is not generally applicable to all customers. See "Viewing test images from fleet DVRs" on page 46 section before selecting this check box.

- 8. Read the license agreement, click I agree, and then click Next.
- 9. Unless a special requirement exists, accept the default folder location for AutoArchiver, and click Next.
- 10. Unless a special requirement exists, accept the default folder location for CCTV_Data and click Next.
- 11. On the Ready to Install page, click Install.
- 12. Follow additional prompts to complete and finish the installation.

When AutoArchiver installation is complete, double-click the desktop icon to launch the AutoArchiver application. A console window similar to that shown in Figure 1 below will open.

Figure 1: AutoArchiver console window

🔤 C:\AutoArchiver\AutoArchiver.exe	
DTI Group Ltd AutoArchiver 1.16.5.0	^
START : Initialising system START : Initialising TCP/IP sockets TCPIP : Waiting for socket connection	
START : Initialising job queue START : Loading configuration settings START : Loading location data	
START : Loading GSM modem device START : Initialising system events START : Initilising CameraCheck thread	
JOBQUE: Ready to process and receive job requests START : Initilising WatchServerFileList thread START : Launching Helper Processes	
DUSfileList +: 0: D:\CCTUData\MU4064904\MU4064904_U_20080122_122541_2008 2 123541.dus (DUR-3) : OK	Ø12
DUSfileList +: 1: D:\CCTUData\MU4064904\MU4064904_U_20080124_092656_2008 4_093656.dus <> : OK	012
DUSfileList +: 2: D:\CCTUData\MU4064904\MU4064904_U_20080124_095248_2008 4_100248.dvs () : OK	012
DUSfileList +: 3: D:\CCTUData\MU4064904\MU4064904_U_20080128_121253_2008 8_122253.dvs () : OK	012 011 - 1
DVSfileList +: 4: D:\CCIVData\MV4072243\MV4072243_U_20080115_123123_2008	311

Caution: Do not close this window. Closing the AutoArchiver console window closes the application. This application must remain open to transfer data.

Installing Fleet Manager

The Fleet Manager software is provided on a CD. This software is installed on a workstation.

Note: If you have a firewall installed on your computer, configure it to allow this application.

To install the software:

- 1. Insert the installation CD into the CD drive.
- 2. When the launch screen opens, select Fleet Manager from the list of options.
- 3. On the Welcome page, click Next.
- 4. Select whether to restore all options to factory default or to uninstall the previous version.

Both "Restore to factory defaults" and "Uninstall previous version" apply to systems with a pre-existing or current installation.

Restore to factory defaults will restore customized system configurations back to defaults before the new installation begins. This eliminates incompatible or archaic configurations settings.

Uninstall previous version will initiate the previous version uninstall routine to facilitate removal of the previous version. Upon completion of the uninstall process, the new install will resume.

- 5. On the Welcome page, click Next.
- 6. Read the license agreement, click I agree, and then click Next.
- 7. On the Ready to Install page, click Install.
- 8. Follow additional prompts to complete and finish the installation.

Chapter 2: Installation

Chapter 3 Using Fleet Manager

Summary

This chapter explains how to use Fleet Manager.

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Starting AutoArchiver

AutoArchiver is configured to start automatically on system startup. You can also start the program:

- Via the AutoArchiver icon located on the desktop
 - or —
- Navigate to the directory c:\AutoArchiver and execute the application AutoArchiver.exe

Starting Fleet Manager

Fleet Manager is not configured to start automatically on system startup. You must start the program:

• Via the Fleet Manager icon located on the desktop

— or —

• Via the Start > Programs > DVSS Fleet Manager menu

Exiting AutoArchiver

Note: Closing the AutoArchiver console window exits the program.

You can exit the AutoArchiver by:

• Clicking inside the console window and pressing the letter "Q" for quit and exit.

— or —

• Clicking the Close button (the X button in the top-right corner).

Clicking the X button will cause an error. Ignore the error and the console will close automatically.

Exiting Fleet Manager

Note: Closing the Fleet Management System window exits the program.

You can exit the Fleet Manager by:

• Clicking Connection > Exit.

— or —

• Clicking the Close button (the X button in the top-right corner).

Fleet Management System window

The workspace for Fleet Manager is the Fleet Management System window. This window contains a title bar, menu bar, toolbar, and a status bar. The window is divided into two panes, a management pane and a maintenance pane. Figure 2 shows the Fleet Management System window and identifies window controls and panes.



Figure 2: The Fleet Management System window

- 1. Title bar
- 2. Menu bar
- 3. Toolbar
- 4. Tabs

- 5. Status bar
- 6. Management pane
- 7. Maintenance pane
- 8. Close button

See Table 1 below for additional details.

	Table 1: Fleet	Management	system -	window	controls
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Control	Description
Title bar	Identifies the Fleet Manager application.
Menu bar	Gives access to application commands.
Toolbar	Contains buttons for commonly-used application commands. See Table 2 below.
Tabs	Display sets of related options.
Status bar	Displays application status messages and shows the connection status of the vehicle, data, jobs, and depot servers.
Management pane	Contains vehicle status information on three tabbed pages. See:
	"Managing vehicles" on page 28
	"How color is used to indicate status" on page 30
	""Vehicle shortcut menu" on page 31
	"Requesting video footage" on page 34
Maintenance pane	Contains the details of vehicles selected in the list, on seven tabbed pages. See:
	"Viewing information about fleet DVRs" on page 39
	"Live vehicle GPS data" on page 40
	"Data storage on fleet DVRs" on page 42
	"Diagnostics" on page 44
	"Viewing the DVR interface settings for fleet vehicles" on page 46
	"Viewing test images from fleet DVRs" on page 46
	"Viewing the status of a DVR during its latest communication" on page 50
Close button	Closes the window and exits the application.

Table 2: Fleet Management System - toolbar commands

Button	Description
Connect	Launches the Connection Manager for connecting to depot servers. See "Connecting to depot servers" on page 15.
Disconnect	Disconnects Fleet Manager from the depot server.

Button	Description			
Vehicles	Opens the Vehicle Management tab, which displays status information for fleet vehicles. See "Managing vehicles" on page 28.			
Jobs	Opens the Job Request and Transfer Management tab, which displays the status of requests. See "Vehicle shortcut menu" on page 31.			
Files	Opens the CCTV and Vehicle Data Management tab, which displays the status of job requests that are stored in the personal data directory. See "Managing CCTV and vehicle data files" on page 36.			
Refresh	Refreshes the display with current information from the depot server.			
Viewer	Opens the Viewer, which lets you view footage from completed job requests. See " Viewing requested video footage " on page 37.			
Мар	Shows where each vehicle was located the last time it communicated with the depot server.			
Print (Future)	Future Print Option – Option is grayed out.			
DVD	Burns selected footage onto a DVD.			
Delete	Deletes the currently selected video archive. You must have sufficient rights to the file.			
Config	Launches the Configuration Manager, which lets you change specific settings in Fleet Manager. See "Configuring the system" below.			

Connecting to depot servers

The Connection Manager lets you connect to depot servers.

To connect to a depot server:

- 1. Click the Connect button.
- 2. In the Depot Connection dialog box, enter the depot server host name or IP address, and then click Connect.

Previously connected depot servers will be listed in the drop down list.

Configuring the system

This section describes how to configure your system.

Accessing the Configuration Manager

To access the Configuration Manager, click the Config button. The Configuration dialog box displays as shown in Figure 3 below.

leet Manager Display	Depot Server Settings	Job Settings	Camera Checks	Messaging	and Reporting	Server Status L	ocal Settings
Vehicle Management Refresh settings O manual refre O auto refresh Last online filter colo	ish 10 se iurs	conds	bb Management Refresh settings manual refresh auto refresh Maximum list entries (0 for no limit)	60 100	seconds	Map Display Show veh Show veh Paths Viewing softw	iicle icon on map iicle ID on map vare application path
2nd classificatio 2nd classificatio 3rd classificatio Maximum list entries Alert voltage below Alert temperature ab Alert shutdown time	n 2 da on 2 da n 7 da 100 hil 16 vo ove 48 de 120 se	yys Ar yys s vitts conds	rchive File Managem Refresh settings manual refresh auto refresh Maximum list entries (0 for no limit)	ent 30 100	seconds hits	L:\camera Units Distance Temperature	Meters/Kilometers/Kilomet Degrees Celsius

Figure 3: Configuration — Fleet Manager Display tab

Configuring the display of data

The Fleet Manager Display tab of the Configuration Manager gives you control over the way the system displays data. It lets you configure:

- Vehicle management settings
- Job management settings
- Archive file management settings
- Map display settings
- Paths
- Units

Option	Description					
Vehicle Manageme	ent					
Refresh settings	Controls how Fleet Manager display is updated with information from depot servers. Choose one of the following options:					
	• Manual refresh. The display updates when you click the Refresh button.					
	 Auto refresh. The display updates automatically at the interval you specify. The default setting is 60 seconds. 					
	Caution: Since highlighted user selections are deselected during a refresh, setting the auto refresh time too low can hinder operator interaction.					
Last online filter colors	Establishes the duration of three groups that are used to indicate how recently a specific DVR was online. A specific color is applied to the entries in each group. (See "How color is used to indicate status" on page 30.) The three color groups are:					
	Dark Green: No setting provided, used to indicate DVR is online					
	 Light green. The default setting is 1 day. Light blue. The default setting is 2 days. Pink. The default setting is 4 days. 					
	Note: Color selections are not configurable.					
Maximum list entries	Controls the maximum number of entries shown on the Vehicle Management tab. The default setting is 100. The maximum is 2,000.					
Alert voltage below	The corresponding "volts" cell on the Vehicle Management tab is highlighted in pink for online vehicles whose voltage is below the threshold specified here. Offline vehicles are not highlighted. Vehicles whose threshold is in tolerance are not highlighted.					
Alert temperature above	The corresponding "temp" cell on the Vehicle Management tab is highlighted in pink for online vehicles whose temperature is above the threshold specified here. Vehicles whose threshold is in tolerance are not highlighted.					
Alert shutdown time	The Shutdown cell on the Vehicle Management tab turns pink for online vehicles whose shutdown time is above the threshold specified here.					
Job Management						
Refresh settings	Controls how the Jobs Request and Transfer Management display is updated with information from the depot server. Choose one of the following options:					
	 Manual refresh. Information is updated when you click the Refresh button. 					
	• Auto refresh. The information is updated at the interval you specify here. The default setting is 60 seconds.					
	Caution: Since highlighted user selections are deselected during a refresh, setting the auto refresh time too low can hinder operator interaction.					

Table 3: Fleet Manager Display tab

Option	Description				
Maximum list entries	Controls the maximum number of entries shown on the Job Request and Transfer Management tab. The default setting is 100. The maximum is 2,000.				
	Caution: Setting the maximum job count too high can result in excessive refresh times. Users must adjust the refresh and job count for the specific installation.				
Archive File Manag	gement				
Refresh settings	Controls how the CCTV and Vehicle Data File Management tab is updated with information from the depot server. Choose one of the following options:				
	 Manual refresh. Information is refreshed when you click the Refresh button. 				
	• Auto refresh. The information is refreshed at the interval you specify (in seconds). The default setting is 30 seconds.				
	Caution: Since highlighted user selections are deselected during a refresh, setting the auto refresh time too low can hinder operator interaction.				
Maximum list entries	Controls the maximum number of entries shown on the CCTV and Vehicle Data File Management tab. The default setting is 100. The maximum is 2,000.				
	Caution: Setting the maximum entries too high can result in excessive refresh times. Users must adjust the refresh and entries count for the specific installation.				
Map Display					
Show vehicle icon on map	Configures Fleet Manager to display vehicle icons on the system map. Press the Map button to display a map showing each vehicle's last known location.				
Show vehicle ID on map	Configures Fleet Manager to display the vehicle ID on the system map. Press the Map button to display a map showing each vehicle's last known location.				
Paths					
Viewing software application path	The directory path of the Video Manager application executable file, "DVSS_Client.exe". The default location is C:\Camera.				
Units					
Distance	Displays distance in meters, kilometers, or miles.				
Temperature	Displays temperature in degrees Celsius or degrees Fahrenheit.				

Configuring the depot server

The Depot Server Settings tab lets you configure:

• General settings

- E-mail settings
- Disk storage and management

These settings are specific to the depot server. They have no configuration affect on the Fleet Manager application running on the local machine.

Figure 4: Depot Server Settings tab

Configuration	Depot Server Settings	Job Settings	Camera Checks	Messaging and Reporting	Server Status Loc	cal Settings	د
General Settings Operator name Depot name Hours between se Email Settings Depot sender ema SMTP mail server	General Electric Compa Division 15 erver process cycling ail address division 15@c	Iny 24 hou lepotmailserver ailserver.com	rs	Disk Storage and Managen → Auto-deletion of archin Minutes between disk fil Delete files when the fre Delete files until the follo Local archive drive path Shared archive drive path Minutes between archive	e disk space falls be wing free space is to D:CCTVData th \\INTEL\CCTV a file catalogues	10 elow 10 reached 100 /Data\ 1440 minute	minutes Gb Gb
					[ОК	Cancel

Option	Description				
General Settings					
Operator name	This entry identifies the corporation operating the depot server. This is specified during AutoArchiver installation but can be changed here.				
Depot name	Identifies the depot the specific installation of AutoArchiver services.				
Hours between server process cycling	Controls the frequency of server process cycling. The default setting is 24 hours. This is a watchdog control facility and the server automatically restarts according to the duration of this setting.				
E-mail Settings					
Depot sender e-mail address	Contains the address or distribution list where depot email messages are sent. This is specified during AutoArchiver installation but can be changed here.				
SMTP mail server address	Contains the SMTP mail server. This is specified during AutoArchiver installation but can be changed here. Set this value to N during installation if you don't have this information at hand.				

Table 4: Depot Server Settings tab

Option	Description
Disk Storage and Man	agement
Minutes between disk file purging	Sets the number of minutes to wait after completion of the previous purge process before beginning the subsequent purge process. This affects files with DVS extensions stored in the CAMDATA share specified in this same tab section. The default setting is 10 minutes.
Delete files when the free disk space falls below	Sets the minimum amount of free space on the physical HDD containing the CAMDDATA share before automatic file deletion initiates. The default setting is 0 GB.
Delete files until the following free space is reached	Sets the amount of remaining space at which file deletion stops. The default setting is 200 GB.
Local archive drive path	Defines the path to the AutoArchiver data folder on the AutoArchiver computer. This parameter is set during AutoArchiver application install and cannot be changed. The default location is D:\CCTVData.
Shared archive drive path	Defines the Windows network share name of the AutoArchiver data folder specified above. The default name is \\ServerName\CCTVData. ServerName refers to the machine name of the AutoArchiver server.
Minutes between archive catalogs	Defines the number of minutes that must elapse before re-indexing the video file list from the shared location. The default of 1440 minutes equals 24 hours or 1 day.
	Note: New user jobs (CCTV Request) will appear in the CCTV and Vehicle Data File Management tab at the next refresh. Auto Download Vehicle Event and Alarm type jobs will not appear until the next archive catalog index.

File Purge Operation

Every X minutes, as set by the "Minutes between disk file purge", files with the DVS extension are purged from the CCTVData share if the CCTVData free space drops below the "Delete files when the free disk space fall below" parameter. File deletion will continue until such time as the disk free space rises above the "Delete files unit! the follow free space is reached" parameter. File deletion starts with the oldest DVS files and continues to the newest until free space exceeds the value specified by the "Delete files until the follow free space is reached" parameter.

Configuring job settings

In the Fleet Management System window, a job is a request for video footage or event data. The Job Settings tab lets you set parameters for downloading data files. This includes:

- General settings
- Job failures and retries
- E-mail notifications

Figure 5: Job Settings tab

🔦 Configuration							×
Fleet Manager Display Dep	ot Server Settings	Job Settings	Camera Checks	Messaging and Reporting	Server Status	Local Settings	
General Settings Job timeout period Maximum concurrent jo Overlap minutes applie	bs to be processed d to progressive ba	2 d 1 ackups 5	minutes jobs minutes	Notifications Send emails for com Send emails for faile Email notification list (Inverse distribution 15%)	pleted jobs d jobs for multiple add	resses use ';')	
Job Failure / Retries Number of failed job ret Number of failed job ret Job suspension period	ries before cancell ries before suspen before continuing t	ation 25 sion 3 o retry 15	retries retries minutes				
						OK	Cancel

Table 5: Job Settings tab

Option	Description
General Settings	
Job timeout period	Sets the duration (in minutes) of inactivity in jobs, caused by a broken connection between the DVR and the AutoArchiver, at which the system requeues the job. The "Failed attempts" cell increments each time a job is requeued. The default setting is 2 minutes.
Maximum concurrent jobs to be processed	Sets the number of simultaneous downloads the AutoArchiver will process. The default setting is 1 job. The maximum value is 5 jobs.
	Note: Setting this variable to high can impact system performance. Generally 3 simultaneous jobs is the maximum practical limit.
Job Failure/Retries	
Number of failed job retries before cancellation	Specifies the number of times you want the system to retry when a job fails before canceling the job. The default setting is 25 retries.
Number of failed job retries before suspension	Specifies the number of times you want the system to retry when a job fails before suspending the job for a period of time. This allows time for the vehicle to move to a new location where service is available. The default setting is 3 retries.
Job suspension period before continuing to retry	Specifies how long (in minutes) the system suspends a job before initiating the next round of retries. The default setting is 15 minutes.
Notifications	
Send e-mails for completed jobs	The default setting is Enabled.
Send e-mails for failed jobs	The default setting is Enabled.
E-mail notification list	List of e-mail address recipients.

E-mail notifications

If enabled, Fleet Manager can send e-mail notifications for completed or failed jobs. Simply enter emails addresses into the supplied box separated by a semicolon ";". Figure 6 on page 23 shows a sample of an e-mail notification. Table 5 above describes the options available in configuring notifications.

Figure 6: E-mail notification sample

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CCTV DOWND	OAD NOTIFICATION
Vehicle:	SMU-5223
Status:	CCTV BOOKING REQUEST COMPLETED
Archive type:	USER CCTV BOOKING REQUEST
Description:	DOWNLOAD TEST
From date:	04/09/2009 16:24:25
To date:	04/09/2009 16:29:25
Requested by:	QR-DEMO-VIEWER
Request date:	04/09/2009 16:39:44
Job started:	04/09/2009 16:39:44
Job completed:	04/09/2009 16:41:03
Transfer size:	413.38 Mb
Transfer time:	79 seconds
Transfer rate:	5358.177 Kb/sec (41.861 Mbit/sec)
Storage server:	QR-DEMO-VIEWER
File name:	c:\CCTVData\SMU-5223\SMU-5223_U_20090904_162425_20090904_162925.dvs
Failed attempts:	0

Configuring camera testing

Fleet Manager can automatically download sample images from cameras attached to MobileView systems. This reduces camera testing and validation time. This feature is configured in the Camera Checks tab.

Figure	7.	Camera	Checks	tab
Iguie		Callera	CHECKS	เลม

🔧 Configuration				×
Fleet Manager Display Depot Server Settings Job Settings Camera Ch Frequency Camera checks to be performed after 8:00:00 AM Image: Camera Checks to be performed after	ecks Messaging and Reporting	Server Status	Local Settings	
Camera checks to be performed before 5:00:00 PM				
Notifications ✓ Send emails for camera checks Email notification list (for multiple addresses use ';') VideoSystemMaintainer@depotmailserver.com				
			ОК	Cancel

Caution: For best image results, camera check times should be set for daylight hours. Camera check hours must progress from an earlier time to a later time.

Table 6: Camera Checks tab

Option	Description
Frequency	
Camera checks to be performed after	Specifies the time after which testing can be performed. The default setting is 8:00:00 a.m.
Camera checks to be performed before	Specifies the time after which testing stops. The default setting is 5:00:00 p.m.
Number of days between camera checks	Specifies the number of days between camera tests. The default setting is 1 day.

Option	Description			
Notifications				
Send e-mails for camera checks	Notifies the e-mail recipient of the camera check activity.			
E-mail notification list	List of e-mail address recipients.			

Note:

Camera checks occur between the specified times only while the MobileView is online to the AutoArchiver. Camera checks will not occur if the vehicle is offline during the specified times.

The email feature requires the AutoArchiver computer connect to a SMTP mail server. This configuration is explained in Table 4 on page 19.

Configuring messages and reporting

The Reporting and Central Server Communication settings shown on the Messaging and Reporting tab are read-only. If you need to change the settings, contact technical support. (See "**Contacting us**" on page 54.)

Figure 8: Messaging and Reporting tab

eet manager Display	Depot Server Settings	Job Settings	Camera Checks	Messaging and Reporting	Server Status	Local Settings
Reporting			DVR C	ommunication		
Vehicle status r	eports		Statu	is report message 32 frequen	су 60	seconds
Job status repo	rts		Statu	is report message 33 frequen	су 10	seconds
			Statu	is report message 34 frequen	су 10	seconds
Central Server Comm	nunication		Statu	is report message 35 frequen	су 60	seconds
Communication	to central server		Statu	is report message 36 frequen	су 120	seconds
			Statu	is report message 37 frequen	су 120	seconds

The variables under DVR communication control how often AutoArchiver polls the DVR fleet for specific information. Information is broken into different message types. Table 7 on page 26 provides a description for each message type. **Note:** Each frequency variable has been set to yield the best performance in a broad range of environments. Changing these values may degrade system performance. Refer to Table 8 below for recommended default values.

Number	Description
32	System voltages and temperatures
33	Analog/digital input/output status
34	DVR GPS location
35	Data storage status
36	General status (software version, serial ID, IP addresses, etc.)
37	Cumulative status report including average/minimum/maximum temperatures, shutdown reasons, and image/sound/GPS records recorded

 Table 7: Status report message description

Table 8: Messaging and Reporting tab default values

Option	Description
Status report message 32 frequency	The default setting is 60 seconds
Status report message 33 frequency	The default setting is 10 seconds
Status report message 34 frequency	The default setting is 10 seconds
Status report message 35 frequency	The default setting is 60 seconds
Status report message 36 frequency	The default setting is 120 seconds
Status report message 37 frequency	The default setting is 120 seconds

Viewing server status data

The Server Status tab displays generic depot server settings. These values are read-only.

leet Manager Display Depot Serv	er Settings Job Settings Lamera Lhecks Messaging and Reporting Server Status Local Settings
Item	Details
Auto archiver version	1.17.15.1554
Storage device serial number	3323116499
Storage device capacity	232.9 Gbytes
itorage device used	12.0 Gbytes (5.1%)
torage device free	220.9 Gbytes (94.9%)
temory physical total	1006.7 Mbytes
temory physical free	619.7 Mbytes
femory virtual total	2047.9 Mbytes
temory virtual free	1761.4 Mbytes
lemory pagefile total	2436.8 Mbytes
Memory pagefile free	2103.3 Mbytes

Figure 9: Server Status tab

Configuring local settings

The Local Settings tab gives you the option to copy completed jobs to your local PC or laptop directory.

Figure 10: Local Settings tab

eet Manager Display	Depot Server Settings	Job Settings	Camera Checks	Messaging and Reporting	Server Status	Local Settings	
Optional features							
🔲 Enable job copy	feature						

To enable job copy feature, check the "Enable job copy feature" check box. To disable job copy feature, clear the "Enable job copy feature" check box.

Figure 11: Job Copy Feature

	Notes	al resources														
Disconnec	. v	(ehicles	Jobs	Files	Refresh	Viewer	Map	(M- Fire	OV0	Delete	Config					
hicle Management	Job F	lequest an	d Transfer Ma	nagement	CCTV and Ve	ehicle Data File	Managem	vent								
/ehicle ID	T.	Status		From			T	0			Description	Requester	Job List Fi	tera		
ET115	U	Completed		Thursday,	13 August 21	009, 12:25 PM	T	hursday, 13 A	ugust 200	9, 12:35 PM	LIGHT CHECK 2	TAS-HOB?		9.97 	_	and I
ET152	U	Transferin	g video60%	Thursday,	20 August 21	009, 10.55 AM	T	hursday, 20 A	ugust 200	9, 11.05 AM	BALL AT BUS	TAS HOB?	Vehicle		_	User
ET203	U	Completed		Thursday,	20 August 21	009, 12:10 PM	T	hunday, 20 A	ugust 200	9, 12:30 PM	LOST PURSE	TAS-HOB-	Status	aueued [In prop	sess Completed
E1217		Queued		Thursday,	13 August 21	003, 6:10 PM	1	hursday, 13 A	ugust 200	9,6:30 PM	EGG AT BUS	TAS-HUB-	1000	_		
E1221		Queued		Salurday.	15 August 20	009 A 10 PM	3	alurday, 15 Au	ugust 2001	9, 8:10 PM	SMASHED WINDUW	TAC-HUB-	Type	user [event	progressive
4ET 220		Consisted		Wednesd	20 Muguit 21	2009 1 10 PM		advantas 1	Adjust 200	009 1 20 PM	HOONING	TAS-HOB-		20 Chan	abe test to	acted in the last 14 days
4ET237	U.	Completed		Wednesd	w 19 August	2009, 2:15 Pt	1 1	adnesday, 15	August 2	009 240 PM	NEAR MISS	TAS-HOB-	Age	Super	ops reque	chied in the sam 14 day.
/ET242	U I	Completed		Wednesd	101000	2000-0-10-11	1.1.1		A DESCRIPTION OF	009. 8 20 AM	WET PAINT	TAS-HOR-				
4ET252	U	Completed		Wednes	Play select	ted jobs using t	the DVS W	ower		009, 3:30 PM	student pass	TAS-H08-	1000000			Auto Download Vehicl
4ET253	U	Queued		Thursday	Copyburn	selected jobs	to portable	e media (CD,I	OVD) I	9, 4:50 PM	ROCK THROWERS	TAS-HOB-	Erifer a	CCTV Reque	#	Events and Alams
4ET311	U	Queued		Tuesday	Copy selec	cted job files to	local dire	ctory	10	3, 4:45 AM	ASSULT	TAS-H08-				
4ET312	U	Completed		Wednes	Export Job	s To CSV File				009, 3.45 PM	BROKEN WINDOW	TAS-HOB-			1	2010/01/2010/01/2010
(ET317		Queued		Friday, 2	Copy selec	ted job entries	s to the cli	board		:25 PM	BURNT HAIR	TAS-HOB?	Patrieve	ALL Vahicle D	ata	Delete Selected Jobs
AE 1619		Queued		Wednes						009, 7:15 AM	PASSENGER FALL	TAC HOB				
AET 627	ii i	Completed		Thursday	Delete sele	ected jobs				9.7.00 AM	TICKET CHECK	TACHORS				
4ET645	ii i	Completed		Wednes	and the second second	140				009 1-45 PM	GRAFFFTLON BUS SHELTER	TAS-HOR?	Item	Val	ue	
4ET649	U.	Queued		Monday.	perect all y	005			i i	3.55 PM	BUS EARLY	TAS HOB	Vehicle	MET	242	
4E T 650	U	Queued		Monday.	Refresh jo	os list				1.10 PM	APPLE	TAS-HOB ³	Description	n WE	T PAINT	
(ET714	U	Completed		Wednes	Add new)	ob			- 13	009, 1:40 PM	FIGHT BACK DOOR	TAS-H08 ³	Type	Use	(request	
												and the later of	Job status	Lon	pieted	10.4
												_	To time	We	Anardari	19 August 2009, 8 10:00
													Requester	the TAS	HORME	WFR
													Date tequ	nated Thu	raday 20.	August 2009, 8-7
													Save vide	o Yes		
													Save GPS	Ves		
													Save audi	o Yes		
													Destination	n TAS	HOB/SE	RVER
													Scheduled	lat Thu	rsday, 20.	August 2009, 8:07, 29 A
													Job started	1 Thu	tsday, 20	August 2009, 8:07 29 A
													Job compe	eted Thu	7.60°C 47	Paguit 2003, 7.04.12.P
												_	Transfer to	vage in 214	0.20	
													Job file tip	e 774	1 Mbohes	
													Transfer ra	te 16.1	Mbits/se	ic.
													Filename	\\\la	s-hob-sen	ver\cctvdata\met242\m
													Failed atte	mpts 1		
													Last from t	me -		
													Last to tim			
													ALC: 10			

To access this feature once enabled, right-click on the selected job, and then click "Copy selected job files to local directory", as shown in Figure 11 above.

Working with Fleet Manager

This section provides information about the Fleet Manager workspace and gives instructions for performing common tasks.

Managing vehicles

You can view the status of vehicles in your fleet, request event data or video, set up camera testing, and perform other tasks on the Vehicle Management tab (shown in Figure 12 on page 29).



Figure 12: Vehicle Management tab

*	2 5 2
Table 9: Items dis	splayed on the Vehicle Management tab
ltem	Description
Vehicle	Displays the vehicle ID number.
Rego	Displays the vehicle registration or license plate number. (Frequently the same as the vehicle number described above.)
Depot	Identifies the depot (or garage) server to which the recorder is assigned.
Location	Indicates the vehicle's location within the depot. Available for DVRs with GPS units in garages where the parking sections are mapped. Maps are stored in the C:\Camera\Maps directory and only show the location of the DVR while in the depot.
Alarm Time	Displays the last time an alarm was triggered.
Operating/Alarm Status	Displays the operating or alarm status of the DVR unit.
DVR	Indicates the number of days since the DVR's last contact with the depot server.
Cam Check	Indicates the number of days since the last camera check.
FPS	Indicates the average, overall frames per second recorded by the DVR during the last reporting period.
GPS	Indicates the average of positions per minute recorded during the last reporting period. Positions per minute refers to the latitude and longitude coordinate updates provided to the GPS module.
History	Indicates number of days of video footage currently stored on the DVR.

ltem	Description
Storage ID	Contains the serial number of the DVR's hard drive.
Serial No	Contains the serial number of the DVR.
Ignition	Indicates the on/off state of the vehicle ignition.
Shutdown	Indicates the length of time before the unit shuts down. This countdown timer activates when the vehicle ignition shuts off. If it's set to 00:00:00, the DVR is either already OFF or the ignition is still ON.
Volts	Indicates the minimum voltage recorded by the DVR during the past recording period.
Vavg	Indicates the average voltage recorded by the DVR during the past recording period.
Temp	Indicates the maximum temperature during the past recording period.
Tavg	Indicates the average temperature during the past recording period.
SW Vers	Indicates the software version running on the DVR.
Model	Contains the model number of the DVR.
Мар	Indicates whether or not the DVR has position data and is displayed on the map.

How color is used to indicate status

Colored highlights are applied to cells in the Fleet Management System window to show how recently each DVR was online. Table 10 below shows how the highlighting is applied.

Color	Most recent communication with DVR [1]
Dark green	Currently online
Light green	1 day ago
Light blue	2 to 4 days ago
Pink	4 or more days ago

[1] Except for dark green, the number of days in each color group can be changed. The color selection is not configurable. See "Last online filter colors" in Table 3 on page 17.

Vehicle shortcut menu

Additional Vehicle Management commands are available on a shortcut menu. To open the shortcut menu, right-click any vehicle.



Figure 13: Vehicle shortcut menu

Table	11:	Vehicle	shortcut	menu	commands
-------	-----	---------	----------	------	----------

Command	Description
Send notification when online	When the vehicle returns to the garage and connects to the depot server, an e-mail is automatically sent to the specified e-mail address.
Send vehicle status report	Sends a vehicle status report to the specified e-mail address. The report includes the most recent image of each camera stored on the server for the selected vehicle.
Connect to vehicle using DVS Viewer	Automatically launches Video Manager and connects to the selected vehicle to show live video data if the vehicle is at the garage and online.
Add CCTV booking to this vehicle	Opens the CCTV booking window for the selected vehicle.
Add event job booking to this vehicle	Opens the event job booking window for the selected vehicle.
Show selected vehicle on map display	Opens the map display window and shows the selected vehicle on the map. This requires map data for the respective area. All vehicles that have previously reported in with position data can be shown on the map display.

Command	Description
Remove selected vehicle from map display	Removes the selected vehicle from the map display window.
Copy selected vehicles to clipboard	Copies vehicle data for the selected vehicles to the Windows clipboard.
Export selected vehicles to csv file	Exports data for the selected vehicle to a file in csv format. The csv format can then be opened by Microsoft Excel for analysis.
Refresh vehicle list	Updates the vehicle list with the most current information.
Force camera checks	Forces a camera check on the selected vehicle. This function is useful during the commissioning of a bus to obtain an image of each camera for commissioning purposes.

Working with job requests and transfers

The Job Request and Transfer Management tab, shown below, displays the status of existing video and data requests. In addition to checking the status of existing requests, you can use the maintenance pane tab to:

- Request video footage
- Set up automatic download of vehicle event and alarm data
- Retrieve all vehicle data

Figure 14: Job Request and Transfer Management tab

Disconnect	Vehicles Jobs	Files Reflects Viewer Ma	DVD Delete	Config							
hicle Management Job /ehicle ID 1	b Request and Transfer Mo Status	Programment CCTV and Vehicle Data File Manu From	agement To	Description	Requestee	Requested	V A	G File name and path	Job List Films		
	Faled Faled	Thursday, September 03, 2009, 11, 14 AM Thursday, September 03, 2009, 11, 16 AM	Thursday, September 03, 2009, 11:19 AM Thursday, September 03, 2009, 11:21 AM	Request Request2	M/ServerS M/ServerS	Thursday, September 03, 2009 Thursday, September 03, 2009	ŤÝ	Ŷ	Vehicle Status @queu Type @user Age 3	ed 🗹 in pro	User Completed
									Enter a CCTV F	Interes	Auto Download Vehicli Events and Alams
									Flature ALL Val	che Dorin	Delete Selected Jobs
									Item Vehicle Description	Value MV4 MV4 Reques	,
									Topic management of the second	Use request Oursed Thursdey, Sr Thursdey, Sr HivSenner St HivSenner St HivSenner St Hivsenner St Hivsenner St Hivsener St Hursdey, Sr - - - - - - - - - - - - - - - - - - -	symbol 02, 2005. 11 51 10 periodice 03, 3000. 11 27 20 eventue 03, 2000. 11 7 30 eventue 03, 2000. 11 33 periodice 02, 2000, 11 45 periodice 02, 2000, 11 45

Job request and transfer data is provided in both the management and maintenance panes. Since information in the maintenance pane is more complete, Table 12 below provides a description of each information item.

Item	Description
Vehicle ID	Contains the vehicle ID number.
Description	Contains the archive description entered by the system operator when the download job was entered.
Туре	Indicates the type of job request:
	 (U) user request = CCTV request (A) auto/ event request = Autodownload vehicle events and alarms (P) progressive request = Retrieve all Vehicle data
Job status	 Indicates the status of the requested jobs. There are three statuses: Queued = waiting for connection In progress = transferring data Completed = the job is done Failed = job request failed
From time	The start date & time of the selected surveillance archive.
To time	The end date & time of the selected surveillance archive.
Requested by	Identifies the server or computer which requested the footage.
Date requested	Date and time the surveillance archive request was entered.
Save video	Indicates whether the surveillance archive contains video data. Shown as V in the management pane.
Save GPS	Indicates whether the surveillance archive contains GPS data. Shown as G in the management pane.
Save audio	Indicates whether the surveillance archive contains audio data. Shown as A in the management pane.
Destination	Identifies the depot server to which data will be downloaded.
Scheduled at	Indicates when the download is scheduled to take place.
Job started	Indicates when the job started.
Job completed	Indicates when the job was completed.
Source Storage ID	Serial number of the media from which the surveillance archive was downloaded.
Transfer time	Indicates the amount of time required to transfer the requested data from the vehicle to the server.
Job file size	Indicates the size (in bytes) of the job output file.
Transfer rate	Indicates the rate (in bytes/sec.) at which the data was transferred.
Filename	Identifies the surveillance archive filename and location as stored on depot server.

Table 12: Job Request and Transfer Management tab

ltem	Description
Failed attempts	Indicates how many failed attempts occurred during download.
Priority	Indicates the priority assigned to the request.

Requesting video footage

You can request video footage from a local or remote vehicle. The footage will be downloaded as soon as the vehicle returns to the depot and comes within range of the wireless network.

To request video footage:

- 1. Click "Enter a CCTV Request." The User Data Request Form opens.
- 2. Enter the required information. See Table 13 below for information about the values required.
- 3. Click Add job.

Table 13: User Data Request Form details

Setting	Information required
Vehicle ID	This field is automatically populated with the vehicle ID from the select drop down box
Select	Allows selection of the vehicle ID from a drop down box or direct entry into the select box. You can type the vehicle ID manually or select it from the list of available vehicles in the drop down box.
Description	Type a description of the footage for future reference.
From Time and To Time	Enter the beginning and ending times of the video segment being requested. To do this, click the arrow to open the calendar, and then select the date.
User name and password	Provide a user name and password for the system identified next to the "Enter details for:" entry. Credentials for the AutoArchiver computer are required if if the checkbox "Autoarchiver Authentication" is selected. Otherwise, enter credentials for the DVR.
Save data	Select checkboxes next to "Save Video", "Save Audio", or "Save GPS" to save the identified data types. Clear the selection for undesired data types.
Schedule at	Click the up or down arrows to schedule a date and time for the download.
Destination	This the name of the destination server. It is not user configurable.

Setting	Information required
Priority	Select the download priority from the dropdown list. Setting download priority affects how the DVR reacts during the save process. Low has no effect. Medium temporarily reduces the DVR frame rate by half its normal setting. High reduces the DVR frame rate to 1 frame per second. (This setting works with MobileView 4 only.)
Channel filter	Enter channels from which to download data. For example, enter "1, 2" to download surveillance data from channels 1 and 2 only
Frame filter	Enter the maximum frame rate of the saved surveillance file. This setting reduces the frame rate of each saved camera to the specified quantity in the saved file only. The setting does not change the frame rate on the DVR.
E-mail notification list	Enter the e-mail addresses of persons to be notified when the job is complete. Click the drop down to select a previously entered e-mail address from a list. Use a semicolon (;) to separate multiple e-mail addresses.

Requesting automatic download of event data and video

Fleet Manager allows automatic download and update of several data types. These are listed below.

- Log files
- Camera checks
- Health & Status
- Video footage placed in the vehicle's archive space

Download of all the above items are automatically enabled when the Auto Download Vehicles Event and Alarms form is completed. (See **Table 14** on page 36.)

Note: Recorder status and health information will not be shown unless an auto download event is configured for the recorder.

To configure automatic downloading:

- 1. Click Auto Download Vehicle Events and Alarms. The Event Archive Auto-Download Request Form opens.
- 2. Enter the required information. See Table 14 on page 36 for information about the values required.
- 3. Click Add job.

Setting	Information required
Vehicle ID	This field is automatically populated with the vehicle ID from the select drop down box.
Available	Allows selection of the vehicle ID from a drop down box or direct entry into the select box. You can type the vehicle ID manually or select it from the list of available vehicles in the drop down box.
Description	Enter a description of the footage for future reference.
Leave archive on vehicle	Select this checkbox to leave the archive on the vehicle after it has been automatically downloaded. This box is normally deselected.
User name and password	Provide a user name and password for the system identified next to the "Enter details for:" entry. Credentials for the AutoArchiver computer are required if if the checkbox "Autoarchiver Authentication" is selected. Otherwise, enter credentials for the DVR.
Destination	Enter the destination for the download.
E-mail notification list	Enter the e-mail addresses of anyone you want notified. Separate each address with a semicolon (;).

Table 14: Event Archive Auto-Download Request Form details

Note: Recorder status and health information will not be shown unless an auto download event is configured for the recorder.

Managing CCTV and vehicle data files

The CCTV and Vehicle Data Management tab displays the status of CCTV download requests.

	r seet Manager	ment system.																
	onnection Options	a Display Abox	e .															
Chronic Management CV V withinks Data /B bargered CV V withinks Data /B bargered Process of park UIF Dori Darsing of park (200) 112 25 /M M Data /D bargered Data /D bargered	Decorr	ect Vehicles	Jobs Fil	Reberh	Vener	(P) Map	-181 791	() DVD	Delete	Config								
Vertein Image Image Descrit State Tape Descrit	/eticle Management	t Job Request a	nd Transfer Manage	nent CCTV and	Vehicle Data	File Management			17200									
LLF 10-01 Transfey April 12, 2003, 12:257-24 Transfey April 12, 2003, 12:257-24 USA US	Vehicle	From		To				Depot	Storage	D Ros	- To	Dei	ver	Shit	File name and path	File Courts Filters		
	Velocia Ultri Com Litri Co	Proc. Proceedings of the Indexed	Na Januari, Managang Ma, Jang Ma, Ja	Tot Tot 2 Tot 2 Tot 2 Tot 2 Tot 2 Tot 2 Tot 4 Tot 4	Step Appl 16: 2 Step Appl 17: 2 Step Appl 1	11 4 4 5 1 4 4 7 4 4 7 4 7 4 7 4 7 4 7 4 7 4 7 4	PH4 AM AM AM A AM A AM A AM A AM A AM A A	Depart USA USA USA USA USA USA USA USA	Storage UGA UGA UGA UGA UGA UGA UGA UGA UGA UGA	B Rox	n Ta	Da Da		Shit	Encome and path Viscame mediation of the start of	File Search Files Velicit Device Find dat Underdady, Ceptenbel Findy, Septembel Latitude Aub Description Te dat Jub Description Te me Value	Bode Sta 1 p 1 200 ≫ 1 1 200 ≫ 1 4 200 ≫ 1	Dizosan (

Figure 15: CCTV and Vehicle Data Management tab

Viewing requested video footage

When a requested video is received, the status of the request changes to Completed. Fleet Manager displays the time range and a description of the requested video segment, along with the user who entered the request (for user requests only — this information is not given for automatic downloads).

To view requested video:

- 1. Select the completed request from the management pane (with the CCTV and Vehicle Data Management tab selected).
- 2. Click the Viewer toolbar button to automatically open Video Manager and begin playback of the selected surveillance file.

Figure 16: Fleet Manager Viewer



Notes:

- If Video Manager is already open, it must be closed before clicking the Viewer button.
- If Fleet Manger is being run on the depot server, Video Manager will not launch.
- CCTV requests transfer a large amount of data. Network bandwidth limitations may affect the playback performance. If this occurs, use the "Copy selected job entries to local directory" feature to make a local copy of the file for playback.

Fleet maintenance

The Maintenance pane occupies the right side of the Fleet Management System window. When you select the Vehicle Management tab, the maintenance pane shows the details about the selected vehicles on a series of seven tabs. These are:

- Status
- Live
- Storage
- Diagnostics

- Interface
- Cameras
- Operate

Details about each tab are given below.

Viewing information about fleet DVRs

The Status tab in the maintenance pane displays operational and maintenance information about fleet DVRs.

Figure 17: Status tab

😽 Fleet Mar	nagement	System :																		E (8)
Connection 0	options Disp	play About																		
Correct De	connect	Q Vehicles	Jobs	Files Rehe	th Vest	я Мар	- (M) For	OND DVD	Delete	Contig										
Vehicle Manag	pement Jub	Pequest and	Transfer Mana	gement CCTV ar	nd Vehicle Dia	fa File Manager	oent .		-									1072171		
Vehicle MV4	Rego	Depot Perth	Locate	n Alen	n Tane	Operation	gAlam Statu		DVR C	an Can	. IPS	GPS 0.0 cos	History 5.1 days	Storage ID VEGTOAR72VD1.02	Senal No MV40819704EF	Ignition	Shutdown 00-00-00	Volts 24.5	Vehicle List Filters	
MVSERVER-		Peth	_	3				_	diam'r	- No	0 tps	0.0 pps	0.0 days		I MINING STREET	01	00.00.00		Vehicle	V Depot V
Panto	TENIX	1 (1980)							I GENE	- 1.16	1 41210	1 d o per	7.6 0.8%	I WITHOUT BEILD AND	MUTTUGADUT		000000	-11	Online days III Show	al vehicles 🐱
																			Statut Line Shanne F	Varia Interface Conserve Director
																			han been storage u	Value
																			Vehicle name	PENTA
																			Source name	PENTA
																			MDR senal number	MDR053801
																			Last known location	DICTOR
																			Last online at depot Last camera check.	Thursday, September 00, 2009, 11:33 Fiday, December 31, 1999, 11:00 PM
																			Days since camera check.	No camera checka
																			Last stafup reason	Ignition on
																			Sectem on time	11 5 hours
																			System record time	11.5 hours
																			Ignition key state	0n Var
																			Time to system shutdown	00:00:09
																			Camera channels	16
																			All cameras regulated	R Vat
																			GPS tracking OK	No
																			IP address	192.168.101.10
																			DVSS software version Software undater version	4.40.10.1554
																			Firmware version	1.4
																			Hardware version	7 <mdr-5></mdr-5>
													_						1	
e													_			_		>	()**	
whicle list update	received hom-	depot server																Veh: Onlin	e=3 Files:30 / Returned:40 Jol	bs: Active=0/Total=3 Depot: MVSERV

Table 15: Stat	us tab —	information	on DVRs
----------------	----------	-------------	---------

Item	Description
Vehicle name	Contains the vehicle ID number.
Source name	Contains the registration or license plate number of the vehicle which may be the same as the vehicle number.
MDR serial number	Contains the serial number of the recorder. MDR is a generic mnemonic meaning Mobile Data Recorder.
Depot name	Identifies the depot (or garage) that has been selected.

Item	Description
Last known location	Indicates the vehicle's location within the garage. (Available for DVRs with GPS units in garages where the parking sections are mapped.)
Last online at depot	Contains the date of the DVR's last contact the depot server.
Last camera check	Contains the date of the DVR's last camera check.
Days since online at depot	Indicates the number of days since the DVR's last contact with the depot server.
Days since camera check	Indicates the number of days since the last camera check.
Last startup reason	Indicates the circumstance of the DVR's most recent startup.
Last shutdown reason	Indicates the circumstance of the DVR's most recent shutdown.
System on time	Indicates number of hours that the DVR was on before connecting to the depot server.
System record time	Indicates number of hours recorded before the DVR was connected to the depot server.
Ignition key state	Indicates the last known on/off state of the vehicle ignition key.
System is operating	Indicates the system operating state during its last communication with the depot server.
Time to system shutdown	Indicates the length of time after ignition shutoff until the DVR turns off.
Camera channels	Contains the number of camera channels on the DVR.
Cameras required	Contains the number of cameras configured for the DVR.
All cameras recording OK	Indicates the current status of the cameras connected to the DVR.
GPS tracking OK	Indicates the current status of the GPS.
IP address	Contains the IP address of the DVR.
DVSS software version	Contains the software version of the DVR application.
Software updater version	Contains the version of the DVR software updater.
Firmware version	Contains the DVR firmware version.
Hardware version	Contains the DVR hardware version.

Live vehicle GPS data

For DVRs with GPS installed and enabled, the Live tab gives information useful for locating a vehicle, such as the vehicle's location, speed, and direction of travel during its most recent communication with the depot server.

Figure 18: Live tab

Fleet Managem	nent Sys	tem :																				
Disconne	ct Ve	About Pholes	Jobs	Film	Rebesh	Vewer	Rap Nap	-(B) For	OMD	Delete	Co	rig										
cia Management Nacla Reg 3 CERVER- TA	Jub Fled	sunt and T Depot Pach Pach Pach Pach	sanife Man	agement [(Alam T	rehicle Dans	File Managem Donuties	eeri	8	DVR	Ean	Com. No No Yes	FPS 80 lps 0 lps 212 lps	GPS 00.0pt 00.0pt 00.0pt	Hintory 5. days 0.0 days 7.6 days	Searcy D Verifial 7:5-012	Sonial No. 97/2019 Strold Jr MCP(023001	lgation Gr Official Ch	Shufdown 000000 000000 000000	Vab 205 246	Velak jaf Films Velak Delen dap 📄 Sherr Stans Der Starge D	Popot declara office row
																					Item Vericle name Dept dar name Dept name Alem time Alem time Alem time Vericle sound Vericle sound Vericle sound Vericle sound Vericle position (longhude)	Value PENTA Peth 003kath 003kath 003kath 8 00 00000 E 0000000
															-							

Table 16: Live tab — vehicle GPS data

Item	Description
Vehicle name	Contains the vehicle number.
Operator name	Contains the corporation name registered in the AutoArchiver.
Depot name	Identifies the depot server.
Alarm time	Contains the date of the last alarm activation.
Alarm status	Indicates whether or not the alarm is activated.
Vehicle location	Indicates the vehicle's location within the garage. (Available for DVRs with GPS units in garages where the parking sections are mapped.)
Vehicle speed	Contains the speed at which the vehicle was traveling during its last communication with the depot server.
Vehicle heading	Contains the vehicle's direction of travel during its last communication with the depot server.
Vehicle position (latitude)	Contains the vehicle's latitude during its last communication with the depot server.
Vehicle position (longitude)	Contains the vehicle's longitude during its last communication with the depot server.

Data storage on fleet DVRs

The Storage tab displays information about data storage on the fleet DVRs.

Figure 19: Storage tab

😽 Fleet M	anagement	System :																
Connection	Options Dia	Vehicles	lobs Files	Reliesh Verver	Map Par	Q	Telete (Sartig										
Vehicle Mon	agement Jub	Bequest and 1	ransfer Managem	ent CCTV and Vehicle Data	File Management		5200 C											
Vehicle	Rego	Depot	Location	Alam Time	Operating/Warn Stat	us D	R Can	Can	IPS	GPS	History	Storage ID	Serial No	Ignition	Shutdown	Volts	Vehicle List Filters	
MUSERVER	1. .	Perth					1 A	No	0 fps	0.0 pps	0.0 days	Weiterstersterste	HANGET DOULD	01	00.00.00		Vehicle	V Depot
PENTA	PENTA	Peth		-		10	- 19	Yes	212/pi	0.0 pp+	7.6 days	GTHOODPEHSO4DH	I MDFI053801	Qn	00:00:00	24.6	Online days 🔠 Sho	w all vehicles
																	In a low literate	no los de la selencia
																	Statut Live Storage	Unagi Interface Cameras Uperate
																	Vehicle name	PENTA
																	Record video data	Yes
																	Record audio data	Yes
																	Record GPS data	Yes
																	Video data tion:	8/25/2019, 3:41 PM
																	Audio data tion	8/12/2009, 4:50 PM
																	Audio data to:	9/3/2009, 11,29 AM
																	GPS data from	(gps channel not recorded)-
																	GPS data to:	<gps channel="" not="" recorded=""></gps>
																	Video storage:	7.6 days
																	Audio storage.	21.6 days
																	Data drive model	Hearth HDS721010KI ATRO
																	Data drive size	922.2 Gbytes
																	Data drive hee	154.1 Gbyten
																	Data drive senal number	GTH000PBHS048H
																	Data drive volume ID	3900572896
																	Writing to alternate drive	No No
																	Wata ne path	e vLanData.ovs
																	Outgoing path	d'outgoing
																	Logging path	*
																	Application path	c:\camera
																	INI file MDR	c:\camera\MDRSettings_MDR5.INI
																	INI Re FLT	d'workspace/FLTSettings_MDR5.ini
																	INI NE VLPI	d workspace with settings_MDHS
<																>		
-							_		_	_	-					100.00		
requesting list o	r vehicles from a	Derver					_		_	_	_			_	_	Ven: Cisila	e*3 F862:30 / Returned: 40	xba: Active=0./Total=3 Depot: MVSERV

Table 17: Storage tab — data storage on DVRs

Item	Description
Vehicle name	Contains the vehicle number.
Record video data	Indicates whether video is being recorded.
Record audio data	Indicates whether audio is being recorded.
Record GPS data	Indicates whether GPS is being recorded.
Video data from	Contains the earliest date of the video data.
Video data to	Contains the latest date of the video data.
Audio data from	Contains the earliest data of the audio data.
Audio data to	Contains the latest date of the audio data.
GPS data from	Contains the earliest date of the GPS data.
GPS data to	Contains the latest date of the GPS data.
Video storage	Indicates the number of days of video storage currently stored on the DVR.

Item	Description
Audio storage	Indicates the number of days of audio storage currently stored on the DVR.
GPS storage	Indicates the number of days of GPS storage currently stored on the DVR.
Data drive model	Contains the model of the DVR's hard drive.
Data drive size	Contains the size of the DVR's hard drive.
Data drive free	Contains the amount of free space on the DVR's hard drive.
Data drive serial number	Contains the serial number of the DVR's hard drive.
Data drive volume ID	Contains the volume ID of the hard drive.
Writing to alternate drive	Indicates whether the DVR is storing data on an alternate drive.
Data file path	Contains the file path to the DVR's data file.
Workspace path	Contains the workspace path within the DVR.
Outgoing path	Contains the path for outgoing data within the DVR.
Logging path	Contains the path to where log files are stored within the DVR.
Application path	Contains the path to where the application within the DVR is located.
INI file MDR	Contains the path to where the MDR INI file is located within the DVR.
INI file FLT	Contains the path to where the FLT INI file is located within the DVR.
INI file VEH	Contains the path to where the VEH INI file is located within the DVR.

Diagnostics

The Diagnostics (Diags) tab displays alarm status and vehicle speed, direction, and location.

Figure 20: Diagnostics tab

Connection Options Display About	Jobs Files Rebeat													and the second se
Vehicle Management Jub Request and Vehicle Rego Depot		h Viewer Map		Delete Cori	ia									
	d Torute Maragement CCTV and a Locator Man	ten	rej Drib u Mages Status D 1		0 Cen. 1995 100 100 100 100 100 100 100 100 100 10	GPS DBOPY BD	Hidogy 51 days 0.0 days 0.0 days	Sauge D Vieneer 2012	Smid No Mrkedpissonali # Mrkedpisson	Sprakon On OR OR	Shubben 2010	Vab. 215	Variation List Fahrer Variation Desident dass Statute List Statutes Statutes List Statutes System diese aus System diese aus	Dayot variation v

Table 18: Diagnostics tab — alarm status and vehicle speed, direction, and location

Item	Description
Vehicle name	Contains the vehicle ID number.
MDR serial number	Contains the serial number of the MDR/DVR. MDR is the low- level name for the DVR Mobile Data Recorder.
System drive model	Identifies the model of the drive on the depot server that contains the operating system and applications .
System drive size	Contains the size of the DVR's drive.
System drive free	Indicates the amount of free space remaining on the drive.
System drive serial number	Contains the drive's serial number.
System drive volume ID	Contains the drive's volume ID.
CPU type	Contains the DVR's CPU type.
Operating system	Contains the DVR's operating system type and build.
Voltage source	Contains the DVR's input voltage during the last communication with the depot server.

Item	Description
Voltage internal 5 VDC	Contains the voltage of the internal 5 V power supply during the DVR's last communication with the depot server
Voltage internal 12 VDC	Contains the voltage of the internal 12 V power supply during the DVR's last communication with the depot server.
Temperature internal	Contains the DVR's internal temperature during the last communication with the depot server.
Fuse condition (5vdc)	Contains the condition of the DVR's 5 V power out fuse.
Fuse condition (12vdc)	Contains the condition of the DVR's 12 V power out fuse.
Fan condition (CPU)	Contains the condition of the DVR's CPU fan.
Fan condition (HDD)	Contains the condition of the DVR's HDD fan.
Fan condition (Case A)	Contains the condition of the DVR's case A fan. This applies only to MobileView PENTA.
Fan condition (Case B)	Contains the condition of the DVR's case B fan. This applies only to MobileView 4.
Fan condition (Case C)	Contains the condition of the DVR's case C fan. This applies only to MobileView 4.
Memory physical total	Contains the DVR's total physical memory.
Memory physical free	Contains the DVR's free memory.
Memory virtual total	Contains the DVR's total virtual memory.
Memory virtual free	Contains the DVR's free virtual memory.
Memory pagefile total	Contains the DVR's total memory page file size.
Memory pagefile free	Contains the DVR's free memory page file size.

Viewing the DVR interface settings for fleet vehicles

The Interface tab displays the interface settings applied to the selected DVR during its last communication with the depot server. This tab lets you view the settings of the DVR's video, analog, digital, and multiplexer inputs.



Figure 21: Interface tab

Viewing test images from fleet DVRs

The cameras tab provides a side-by-side comparison of recent camera images from the selected DVR against previously established reference images. This time saving feature provides a centralized means of checking whether a camera image has changed to an unacceptable degree.

Camera image updates, called test images, can be obtained up to a maximum of once per day when the DVR is online to the depot server. If an image has changed, historic query of past test images helps identify when the change occurred. This can aid with investigations if the change was vandal related.



Fleet Manager provides a means of updating a camera's reference image if the camera has been replaced or its field of view changed.

Update a reference image:

- 1. Select the DVR to be checked.
- 2. Select the cameras tab in the maintenance pane
- 3. Select the date containing the desired reference image.
- 4. Click "Get camera checks".

The current reference and test image for the selected date will display.

If the selected date does not have a test image, the latest available image before the selected date will be displayed.

If the selected date does not have a test image and "Force an exact match to this date" is checked, an error will display indicating no information is available on the specified date.

- 5. Double-click any image to expand it.
- 6. Clicking the "Set as Reference" box will update the current image to be the reference image.

If camera check testing was selected during AutoArchiver installation, the user may check test results of a test from a particular date.

To check a camera for alignment, focus, and graffiti:

- 1. Select the DVR to be checked.
- 2. Select the cameras tab in the maintenance pane
- 3. Select the date containing the desired reference image.
- 4. Check the "View test images" box
- 5. Click "Get camera checks".

The current reference and test image for the selected date will display.

If the selected date does not have a test image, the latest available image before the selected date will be displayed.

If the selected date does not have a test image and "Force an exact match to this date" is checked, an error will display indicating no information is available on the specified date.

- 6. Double-click any image to expand it.
- 7. Use the scroll bar to check test results from each camera configured on the vehicle. Results are color coded per Table 20 below.

Notes

- Camera test checks occur with the same frequency as camera checks and the features are interdependent.
- Camera test checks are available only if the vehicle was within range of the wireless network during the hours specified in the configuration.
- For information on configuring camera check frequency and times, see "Configuring camera testing" on page 24.

If the "View test images" box is checked, the image columns may display "ghost" images. This is due to the algorigthm averaging the images and is normal.

Color	Description
Green	Camera check was successful.
Red	Camera check was unsuccessful. This indicates the image comparison made by the algorithm did not match. This does not necessarily mean that the camera is not working. The camera test only determines if there are major differences between the two images.

Table 19: Camera check status color description

Ghost images

On a daily basis, the DVR generates multiple test images for each camera on a vehicle. These are sent to the AutoArchiver for camera checks. Before the AutoArchiver executes the camera check test algorithm, it gathers all the images for a vehicle on a given day and averages them into one image. The blended image may have ghost images. This averaged image removes unwanted artifacts that can cause false positives. The AutoArchiver generates the averaged image after all the individual images for the current day have been received.

Modifying a reference image or hotspot

Fleet Manager allows user to define the specific image area the camera check test function compares. This fine tuning helps eliminate section of the image that are known to change. Examples are windows and seats.

To modify an existing reference image or set a hotspot:

1. After conducting a camera check and setting a reference image, double-click the image that will have a comparison area defined. A Camera Check Settings dialog box displays as shown in the figure below.



- 2. Modify the comparison sensitivity level. Experimentation is required to find an optimum setting. The range is 1 (lowest) to 10 (highest). Starting with a sensitivity level of 1 (default) is recommended.
- 3. Place the mouse within the image and define a reference region. The region will be the area checked by the comparison algorithm.



- 4. Click Set as Reference. This will set a new reference image for future camera checks and tests.
- 5. Click Close to exit the screen.

Viewing the status of a DVR during its latest communication

The Operate tab displays information about the status of a selected DVR during its last communication with the depot server.

Figure 23: Operate tab

😽 Fleet A	anagement	System :																				
Connection	Options De Contract	Vehicles	Jobs	Film	Retech	Veset	Map N	-18. 101	O DVD	Delete	Co	rig										
Vehicle Mar	agement Ju	b Request and	Transfer Ma	nagement	CCTV and V	Vehicle Data I	lie Managero	ent		172.11		2.65.52										
Vehicle	Rego	Depot	Loc	ation	Alam Ti	and	Operating	g-Warn Statu	8	DVR	Can.	Can	FPS	GPS	History	Storage ID	Serial No	Ignition	Shutdown	Volts	Vehicle List Filters	
MUSERVE	R	Perth	_		12		1		_	144	1.	No	0 fps	0.0 pps	0.0 days	Weight Jie	Per autority (del r	01	00.00.00		Vehicle	Cepot 🖌
PENTA	PENIA	Peth								1 days		Tes	1 212 (p)	0.0 ppr 1	7.6 days	атносоченьоден	MDFI053801	1 Qn	00000	24.6	Online days Show	al vehicles 🖉
																					Status Line Sharana	District Interface Constant Operate
																					Iten	Value
																					Vehicle name	PENTA
																					Last location	Thursday Sectorsby 83 2009 115
																					Last statup reason	Ignition on
																					Last shutdown reason Sastem on tree	Watchdog timeout
																					System record time	11.5 hours
																					Images recorded	8730924 492701 9 Minutes
																					Average hane rate	211.6 fps
																					GPS positions recorded	0
																					Statups - ignition	0
																					Statups - software	0
																					Shutdowns - total	0
																					Shutdowns - ignition	0
																					Shutdowns - software	0
																					Shutdowns - watchdog	0
																					Shutdowns - taut Shutdowns - maintenance	0
																					Shutdowns - over temp	0
																					Shutdowns - under temp Shutdowns - curer unit age	0
																					Shutdowns - under voltage	0
																					Voltage - source	24.6 Vmin 24.6 Vavg 24.6 Vmax
																					Voltage - 12vdc	12.7 Vmin 12.7 Vavg 12.7 Vmax
																					Temperature - system	35.2 Cmin 35.2 Cavg 35.2 Cmax
<															_					>		
which list upd	ate received from	depot server																		Veh: Onli	ne+3 Files: 90 / Returned: 40 Ja	ba: Active=0/Total=3 Depot: MVSERV
the spe																					a contraction of the	

Table 20: Operate tab

Item	Description
Vehicle name	Contains the vehicle number.
Last location	Contains the location of the vehicle when it last communicated with the depot server.
Last online at depot	Contains the last time that the DVR communicated with the depot server.
Last shutdown reason	Contains the reason for the last shutdown of the DVR.
System on time	Contains the amount of time that the DVR system has been on at the time the DVR last communicated with the server.
System record time	Contains the amount of time that the DVR system has recorded at the time the DVR last communicated with the server.
Images recorded	Contains the number of images recorded in the last recording period.
Images total size	Contains the size of the images recorded during the last recording period.
Average frame rate	Contains the average recording period in the last recording period.
GPS positions recorded	Contains the number of GPS positions recorded during the last recording period.

Item	Description
Startups	Contains the total number of startup events, plus individual totals for ignition, software, and maintenance startups.
Shutdown	Contains the number of shutdowns, including the ignition, power loss, software, watchdog, fault, maintenance, over temperature, under temperatur, over voltage, under voltage, and total.
Voltage source	Contains the input voltage to the DVR for the last recording period, including the minimum, average, and maximum.
Voltage 5 VDC	Contains the voltage of the 5 V supply for the last recording period, including the minimum, average, and maximum. This setting is not used.
Voltage 12 VDC	Contains the voltage of the 12 V supply for the last recording period, including the minimum, average, and maximum.
Temperature - system	Contains the temperature of the DVR for the last recording period, including the minimum, average, and maximum.

Chapter 4 Troubleshooting and support

Summary

This chapter provides information to help you troubleshoot problems and contact technical support in case you need assistance with your equipment.

Content

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Troubleshooting

Failure	Possible reasons
Job request failure.	Wrong user name and password. Ensure that you have the correct user name and password.
Autodownload job request failure.	When entering autodownload jobs and the AutoArchiver authentication box is checked, the system authenticates with the server. If the user does not exist on the server with administrator rights, the system ignores the autodownload job.
	Ensure the following:
	 Date and time are set correctly on the server and client initiating the request.
	• Create autodownload jobs directly from the server.
	Check the AutoArchiver authentication box.
	 Use the AutoArchiver user account to create the job.
	 Ensure that you do not create more than ten auto download jobs at a time.
No vehicles are displaying in the main window when searching for vehicles.	Make sure the Vehicle box in the Vehicle List Filters area of the Vehicle Management tab is clear of any characters, including blank characters.

Contacting us

For help installing, operating, maintaining, and troubleshooting this product, refer to this document and any other documentation provided. If you still have questions, contact us during business hours (Monday through Friday, excluding holidays, between 5 a.m. and 5 p.m. Pacific Time).

Technical support

North America

T 1 888 437.3287 (Toll-free in the US, Puerto Rico, and Canada)

Note: Be ready at the equipment before calling.

Online resources

Here are some useful links on our website www.interlogix.com.

Link	Description
Warranty and terms information	From the Customer Support menu, select Return and Warranty Policy Statement or Sales Terms and Conditions.
Customer service and technical support	From the Customer Support menu, select Customer Service or Technical & Application . Select the appropriate product category for the contact information or use the menu to select a location outside the US.

Many UTC Fire & Security documents are provided in English only as PDFs. To read these documents, you will need Adobe Reader, which you can download free from Adobe's website at www.adobe.com.

Chapter 4: Troubleshooting and support

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