

GATEKEEPER

Health Check

User Guide

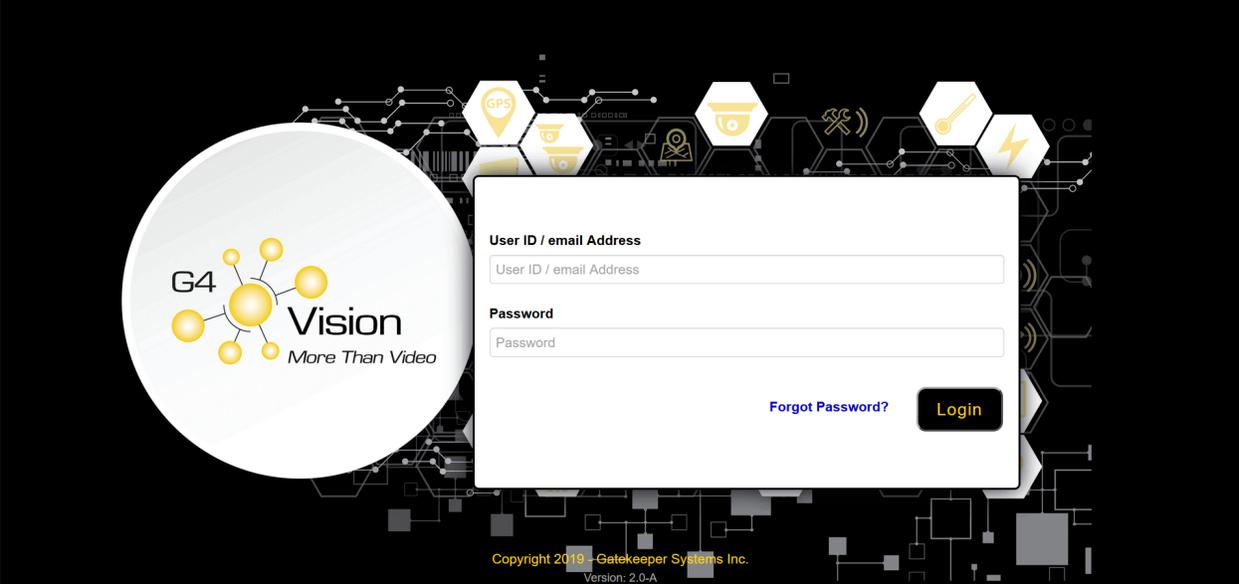
Document Ref. No. : DN3436
Version No. : 1.0.3
Document Date : October 2021

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G4-Vision HealthCheck



Help Sub-System Version 2.4

The G4-Vision HealthCheck is a system developed by Gatekeeper Systems to provide real-time monitoring and feedback on qualified Gatekeeper Mobile Digital Video Recorders (MDVR's) and their attached Cameras and Storage.

Among key features of G4-Vision HealthCheck are:

Category	Module	Description
Dashboard	Dashboard	Real-time insight into the current state of fleet MDVR's, Camera, Storage and GPS components with support for users to drill into specific reports to access further detail.
Dashboard	Media Analytics	Analyses are taken of the image to give accurate data on issues in the image quality, signal, or aim.
Administration	Dashboard Customization	Fleet and User-level customization of Dashboard monitoring and alerting behavior.
Inventory	Vehicle Management	Creation and management of Fleet Vehicles, MDVR assignments and depot groupings.
Inventory	MDVR Management	Automated Registration and management of MDVR's with detailed access to MDVR current and historic configuration.

Administration	User Management	Creation and management of users and their roles, passwords, contact information, preferred language.
Administration	Location Management	Creation, modification, and management of key Fleet locations and assigned vehicles.
Reports	Reporting Subsystem	Extraction and reporting on MDVR, Media Analytics, Camera, Storage, GPS, Voltage, Temperatures, and Vehicles.

Utilizing "[Dashboard](#)," the health of the MDVR can be seen in a single snapshot allowing the current state of MDVR parameters to be viewed.



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Multi-Platform Support

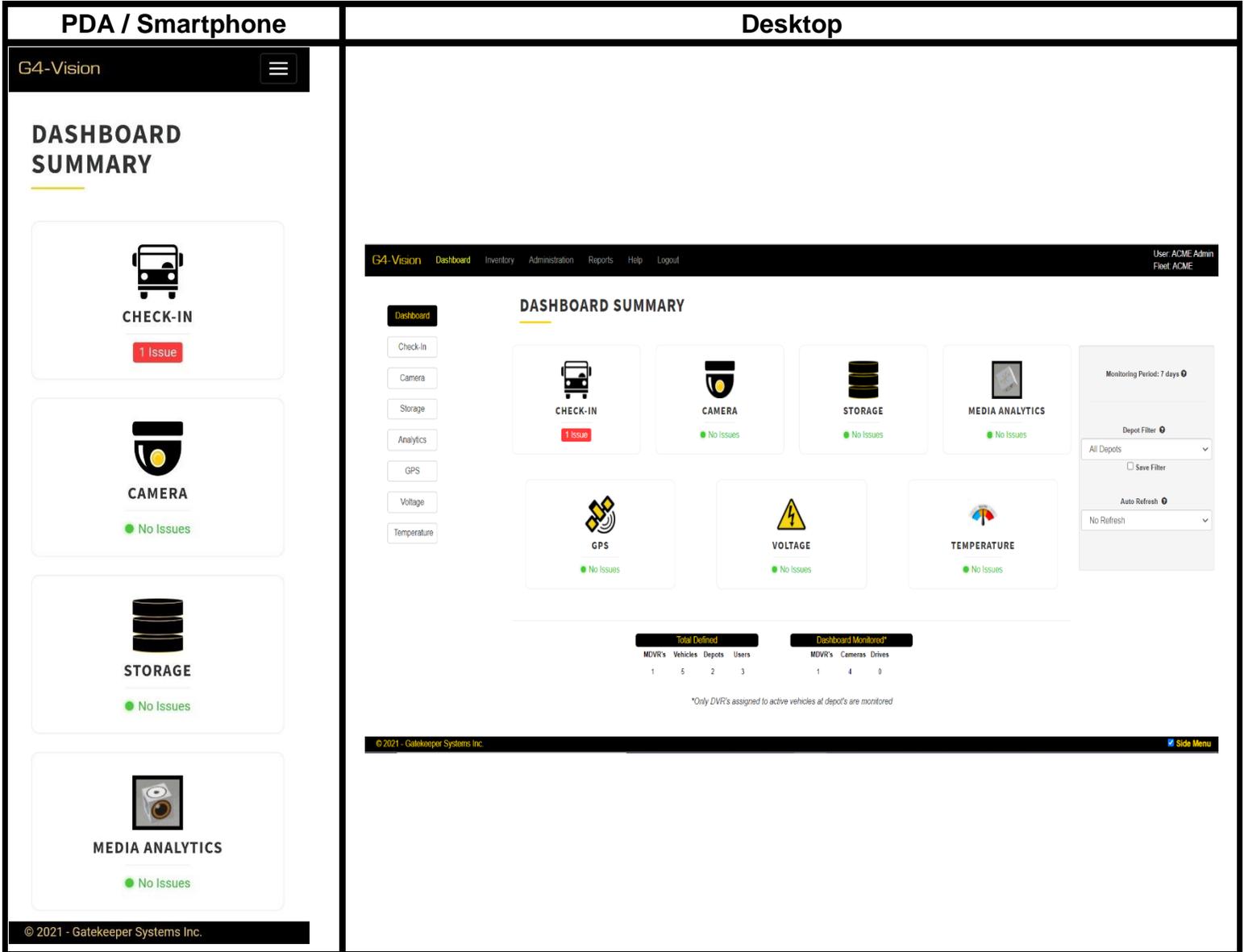
The G4-Vision HealthCheck systems has been designed and developed to operate across:

- Desktops
- PDA's
- Smartphones

Given the screen size limitations of each of these platforms, the application will automatically re-size, re-format, and alter functionality as required by each platform.

Tip: In Desktop mode, simply sizing the browser to a larger size may improve the layout of the application in your specific environment.

Here is an example of the Dashboard displayed on a PDA/Smartphone and a Desktop. In the PDA/Smartphone format, only the Dashboard menu option is available.



[Back to G4-Vision Overview](#)

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Putting It All Together

The G4-Vision HealthCheck Server (G4-Vision) maintains a repository of a Fleet's Mobile Digital Video Recorders (MDVR's). These MDVR's are registered with the system and to the fleet in an automatic manner. In addition to the MDVR's, G4-Vision

provides the means by which fleets can create and organize their vehicles, depot's, users, and association of MDVR's with specific vehicles.



The MDVR's and all their associated information are then accessible via smartphone, tablet or desktop browsers.

In provisioning an MDVR, it is programmed with the G4-Vision server and port to report its status to the Fleet Users. The MDVR is then queried and in some cases, the MDVR directly reports to the server where the system gains insights into the following information from the MDVR:

- MDVR details such as serial numbers and firmware compatibility
- Camera status
- Channel configuration and status
- Storage/Hard Drive configuration and status
- Media Analytics analyses
- GPS configuration and status
- Temperature levels at multiple measuring points
- Voltage levels at multiple measuring points

This information is then accessible to the fleet's G4-Vision operator. In cases where the status provided by the MDVR's fall outside of acceptable tolerances, G4-Vision will display these units on the HealthCheck Dashboard for operators to view and investigate in detail.

Creating an MDVR

When a MDVR reports for the first time from the Fleet, it will do 1 of 2 things:

- If a vehicle was specified to the MDVR that is reporting, then the vehicle and MDVR are created in the reports, and linked together.
- If a vehicle was not specified to the MDVR that is reporting, then it is simply linked to the vehicle it reported with.

However, every newly created MDVR needs a vehicle that is connected to a depot, or the MDVR will not be monitored.

To edit or create a MDVR without reporting in go to [Inventory](#) - [MDVR](#).

To edit or create a vehicle go to [Inventory](#) - [Vehicle](#).

[HealthCheck Dashboard](#)

The HealthCheck Dashboard key service provided by the system. It provides both a high-level roll-up of the fleet MDVR states for easy understanding and consumption of the high-level issues, and the ability for operators to drill-down into each issue to investigate issues at deeper levels.

[Back to G4-Vision Overview](#)

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Dashboard

Dashboard Home

The screenshot shows the G4-Vision Dashboard Home page. The top navigation bar includes 'G4-Vision' and links for 'Dashboard', 'Inventory', 'Administration', 'Reports', 'Help', and 'Logout'. On the right side of the bar, it displays 'User: ACME Admin' and 'Fleet: ACME'. The main content area features a 'Dashboard' tab on the left, a central 'DASHBOARD' heading, and a large icon of a magnifying glass over a bar chart. A vertical sidebar on the left contains buttons for: Check-in, Camera, Storage, Analytics, GPS, Voltage, and Temperature. At the bottom, a dark footer contains '© 2020 - Gatekeeper Systems Inc.' and a 'Side Menu' icon.

The Dashboard provides a high-level health status overview of all your fleet components being monitored. It also serves as the entry point into more detailed information about each type of health-status issue.

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G4-Vision HealthCheck Dashboard

DASHBOARD SUMMARY

Category	Issues
CHECK-IN	5 Issues
CAMERA	3 Issues
STORAGE	No Issues
MEDIA ANALYTICS	6 Issues
GPS	No Issues
VOLTAGE	No Issues
TEMPERATURE	No Issues

Total Defined				Dashboard Monitored*		
MDVR's	Vehicles	Depots	Users	MDVR's	Cameras	Drives
25	28	2	39	15	91	17

*Only DVR's assigned to active vehicles at depot are monitored

G4-Vision HealthCheck Dashboard provides a near real-time view of the fleet's MDVR's in a single snapshot.

Dashboard Summary Overview

Dashboard Summary provides a high-level health status overview of all your fleet components being monitored. The Dashboard also serves as the entry point into more detailed information about each type of health-status issue.

What is Monitored by the Dashboard

Many MDVR's and Vehicles may be defined for the fleet. However, only MDVR's meeting the following conditions are monitored for issues:

- MDVR must be *Active* - MDVR's 'Active' flag must be checked.
- MDVR must be assigned to an *Active vehicle*.
- MDVR's vehicle must be assigned to a Depot.
- Only issues during the Monitoring Period are processed (see below).

Note: (⚠️) in the top right corner of any of the 7 icons, means that an MDVR is being monitored. The monitored MDVRs are not included in the active count; only current issues are counted in real time.

Monitoring Period

The Monitoring Period is the number of days back that G4-Vision will look for issues to report upon. This period is used when displaying Dashboard information at any level. For example, drilling into Camera issues, will only display Camera issues that have been observed during the Monitoring Period.

This Period can be set in Administration / Default Settings.

Depot Filter

The Dashboard can be setup to only look for issues concerning MDVR's associated with vehicles at a specific Depot. This is especially useful for administrators who are only interested in managing issues related to their specific depot.

The Dashboard results could be dynamically filtered for a specific Depot by selecting the desired Depot from the "Depot Filter" drop-down list. Note that if the "Save Filter" check-box is selected, then the Dashboard will always filter for the currently selected Depot for the currently logged in user account. To remove the filter, simply select "All Depots" from the drop-down list.

The Default Depot for the current user may also be set in Administration > Default Settings. This will result in the same Dashboard filtering as described above.

MDVR Reporting Threshold

The Reporting Threshold is the maximum number of days that an MDVR or Vehicle may go without reporting or checking into the G4-Vision HealthCheck system. Missing these Check-In's will result in downstream issues where MDVR issues are not known to the G4-Vision HealthCheck system - *and hence not reported upon.*

To see which MDVRs and Vehicles are not being reported on or monitored, please see [Dashboard Reports](#).

Dashboard Structure

The Dashboard is organized into 4 distinct areas:

Dashboard Menu	Enables direct navigation to lower level, more detailed, component specific reports.
Dashboard Summary	Displays summary count of issues found for type of issues being monitored.
Filters Area	Displays Monitoring Period and Depot Filters.
Fleet Totals Area	Total number of monitored and defined items for the current fleet.

The Dashboard area is broken down into two rows of high-level reports:

Row 1	Check-In, Camera, Storage and Media Analytics. The issues indicate potentially imminent image capture issues, storage issues, or communications issues from the vehicle.
Row 2	GPS, Voltage and Temperature identify issues that could lead to MDVR failure in the future. For example, running at too high of a temperature could lead to device failure if not investigated and addressed.

Dashboard Summary Components

Component	Description
Check-In	Total qualified vehicles being monitored and the number of Vehicles that have not reported into HealthCheck within a configurable period of time known as <i>DVR Reporting Threshold (Days)</i>
Camera	Total number of MDVR camera's being monitored and number of camera's that have reported issues
Storage	Total number of MDVR storage drives being monitored and number of drives that have reported issues (Note: Drives may be hard drives or SD Cards)
Media Analytics	Analyses that are taken of the image to give accurate data on issues in the image quality, signal, or aim.
GPS	Total number of GPS errors reported by Vehicle/DVR's identified in "Check-In" Total
Voltage	Total number of Voltage errors reported by Vehicle/MDVR's identified in "Check-in" Total
Temperature	Total number of Temperature errors reported by Vehicle/MDVR's identified in "Check-In" Total

Note: Only components subscribed to will appear on the dashboard summary.

Dashboard Fleet Totals

Total Defined Items: These items have been defined but are not necessarily monitored. For example, an MDVR may be marked as inactive.	
MDVR's	Total number of MDVR's that have been registered to the fleet
Vehicles	Total number of vehicles defined in the fleet
Depot's	Total number of depots defined in the fleet
Users	Total number of users defined in the fleet

Dashboard Monitored Items: Only active vehicles with an MDVR and assigned to a depot are monitored and reported in the Dashboard.

MDVR's	Total number of MDVR's currently monitored by the Dashboard
Cameras	Total number of cameras monitored by the Dashboard
Drives	Total number of drives monitored by the Dashboard

[Back to G4-Vision Overview](#)

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Check-In

Missed Check-In Dashboard

MISSED CHECK-IN DASHBOARD

Total: 1

Vehicle Name	Plate	DVR S/N	Depot Name	Last Report Date
Bus 1		006001F90B	ACME Depot	May-26-2019 22:29 (PST)

MDVR Reporting Threshold: 2 (Days)

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Description

- Report of vehicles that have not reported in within a configurable period of time known as the *DVR Reporting Threshold*.
- The DVR Reporting Threshold is reported in Days and may be configured in [Administration](#) - [Default Settings](#)
- More information can be gathered when the cursor is hovered over any symbol that is listed in the dashboard. In the example above, hovering over the () when in the dashboard will show that the plate number is Not Assigned.

In the example above we can see that Vehicle Name Bus 1 and Bus 8 have not checked in within the specified DVR Reporting Threshold of 2 days as set in Administration > Default Settings. This would indicate further investigation would be needed to see why Bus 1 and Bus 8 are missing.

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Mobile Digital Recorder Details

- Dashboard
- Check-In**
- Camera
- Storage
- Analytics
- GPS
- Voltage
- Temperature

MOBILE DIGITAL VIDEO RECORDER DETAILS

Time values reported in Depot time: (UTC-08:00) Pacific Time (US & Canada)

MDVR Details

Name / Tag: DVR304SD1a
Model: 304SD1a

Configurations: 1 [Details](#)

Chipset S/N: 006001F90B
GSI S/N:

Hardware Version:
Firmware: X3H_V232_C_T170803.03 ⓘ

Latest Update: 01-May-2019 09:22
Created Date: 01-May-2019 09:10
Comments:

Vehicle

Vehicle Name: Bus 1
Vehicle Plate:
Depot: [ACME Depot](#)

Camera / Channels	Total Analog: 4	Total IP: 1	
Channel	Type	Status	Report Date
1	Analog SD	Good	01-May-2019 09:10
2	Analog HD	Good	01-May-2019 09:10
3	Analog SD	Good	01-May-2019 09:10
4	Analog HD	Good	01-May-2019 09:10
5	Digital	Good	01-May-2019 09:10

Storage	Hard Drives: 1	SDIO Drives: 0				
Location	Type	ID	Size (MB)	Remaining (MB)	Status	Report Date
Internal	Hard Drive	1	500040	2516	Recording	01-May-2019 09:10
External	USB Drive	4	132015	131913	Normal	01-May-2019 09:10

Temperature (F)

Chamber: 80.6 (01-May-2019 09:10)
RTC: 89.6 (01-May-2019 09:10)

Voltage

Incoming Voltage: 11.80 (01-May-2019 09:10)

GPS Module

Latest Status: OK (01-May-2019 09:10)
Location Tech: GPS

Description

The Mobile Digital Video Recorder provides detailed information about the MDVR and links to even more details.

Note: The DVR date and times are displayed using the DEPOT time zone.

This report is comprised of the following sections:

MDVR Details:

- Click the Name/Tag to see and edit the MDVR information
- Click the  to see if your firmware is compatible.
- The text's color will show the status of the firmware's compatibility

Green	Firmware is compatible
Purple	Firmware is partially or unofficially compatible
Gray	Firmware is unknown
Red	Firmware is not compatible

Vehicle:

- Click vehicle name to see vehicle details.
- Click Depot to see detailed depot information.

Camera/Channels:

- Click the desired channel to see reports from that drive.

Storage:

- Click the desired drive to see reports from that drive.

Temperature:

- Click  to see the temperature reports.

Voltage:

- Click  to see the voltage reports.

GPS Module:

- Click  to see GPS reports.

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Camera

Camera Alarms Dashboard

CAMERA ALARMS DASHBOARD

Errors: 3 Monitored: 5

Vehicle Name	DVR S/N	CH	State	Current Duration	Previous	Previous Duration	Monitored
BUS 41	CSN: 0088017F4A	9		Jun-25-2021 03:19 - Sep-14-2021 13:34 (PST)		Jun-07-2021 14:00 - Jun-09-2021 05:53 (PST)	
BUS 6	CSN: 009900B468	5		Jul-30-2021 11:26 - Sep-14-2021 13:13 (PST)		Jun-17-2021 05:56 - Jul-30-2021 11:26 (PST)	
BUS 6	CSN: 009900B468	6		Jul-30-2021 11:26 - Sep-14-2021 13:13 (PST)		Jun-21-2021 09:20 - Jul-30-2021 11:26 (PST)	
BUS 7	CSN: 008801B04C	6		Sep-13-2021 13:17 - Sep-14-2021 13:59 (PST)		Sep-13-2021 09:35 - Sep-13-2021 13:17 (PST)	
BUS 7	CSN: 008801B04C	9		Sep-14-2021 07:13 - Sep-14-2021 13:59 (PST)		Sep-14-2021 13:27 - Sep-14-2021 13:27 (PST)	
BUS 41	CSN: 0088017F4A	10		Sep-07-2021 10:14 - Sep-14-2021 13:34 (PST)		Sep-07-2021 06:32 - Sep-07-2021 10:14 (PST)	
BUS 41	CSN: 0088017F4A	11		Sep-07-2021 10:14 - Sep-14-2021 13:34 (PST)		Sep-07-2021 06:32 - Sep-07-2021 10:14 (PST)	
BUS 41	CSN: 0088017F4A	12		Sep-07-2021 10:14 - Sep-14-2021 13:34 (PST)		Sep-07-2021 06:32 - Sep-07-2021 10:14 (PST)	

Description

- Camera Alarms Dashboard displays a list of MDVR channels that have reported issues during the Monitoring Interval.
- Monitored MDVR: If an MDVR has reported a camera error during the Monitoring Period which has since been resolved, then the MDVR will be tagged as "Monitored" () until the Monitoring Period has passed.
- If a MDVR has an error the **Error** counter will increase based on the number of MDVRs with errors. After the errors have been fixed, that number will be removed from the **Error** counter, and the **Monitored** counter will increase by the amount removed. After the Monitoring Period has passed the **Monitored** counter will decrease. The default, no errors and no monitored MDVRs, is 0.
- In the example above, there are **Errors: 3** and **Monitored: 5** MDVRs currently.
- Monitoring Interval: The number of days that G4-Vision will look back to report errors from. This period can be set in Administration > Default Settings > Monitoring Days.

- For each MDVR, the State, Current Duration and Previous Duration are indicators of the overall health of the currently installed Storage.
- Hovering the mouse over the Current Duration or Previous States will provide a pop-up with further details on the state of the MDVR channel
- Camera / Channel States:

Green	<ul style="list-style-type: none"> • No Faults
Red	<ul style="list-style-type: none"> • Misconfigured • No Audio • Video Loss
Yellow	<ul style="list-style-type: none"> • Unknown: No details received yet • Channel Disabled with a connected camera • Channel Disabled with no camera detected • Disabled Analog Channel

- MDVR Camera Details: Clicking on the desired row will provide detailed Channel and MDVR information.

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MDVR Camera Details

- Dashboard
- Check-In
- Camera
- Storage
- Analytics
- GPS
- Voltage
- Temperature

MOBILE DIGITAL VIDEO RECORDER DETAILS

Time values reported in Depot time: (UTC-08:00) Pacific Time (US & Canada)

MDVR Details

Name / Tag DVR304SD1a
Model 304SD1a

Configurations 2 [Details](#)

Chipset S/N 006001F90B
GSI S/N

Hardware Version
Firmware X1H_V252_C_T190129.01 ⓘ

Latest Update 24-May-2019 12:15
Created Date 23-May-2019 00:02

Comments

Vehicle

Vehicle Name Bus 1
Vehicle Plate
Depot ACME Depot

Camera-Specific Reports →

Camera / Channels

Channel	Type	Status	Report Date
2	Analog SD	Good	24-May-2019 12:15
2	Analog SD	Good	24-May-2019 10:19
2	Analog SD	Video Loss	23-May-2019 08:45

Storage **Hard Drives** 0 **SDIO Drives** 0

Location	Type	ID	Size (MB)	Remaining (MB)	Status	Report Date
MDVR Storage Not Installed						24-May-2019 10:20

Temperature (F)

RTC	104	24-May-2019 12:15
RTC	102.2	24-May-2019 10:19

Voltage

Incoming Voltage 11.80 23-May-2019 00:02 To 24-May-2019 12:15 (1x)

GPS Module

Latest Status OK (24-May-2019 10:19)
Location Tech GPS

Description: *Dashboard MDVR Camera Details*

Mobile Digital Video Recorder Details can be viewed when the user requests to "drill-down" into a specific Dashboard Camera/Channel Alarm.

This form is similar to the MDVR Details found in Inventory > MDVR > MDVR Details. However, the main difference here is that the Camera/Channel Details section provides Camera/Channel reports specific to the Camera/Channel that is being inquired.

Note:

- In the "Dashboard Drill-Down MDVR Details" The DVR date and times are displayed using the DEPOT time zone.
- Users are able to collapse/expand specific sections by clicking the black section titles.
- MDVR can be viewed by clicking the MDVR Name/Tag.
- Camera reports can be viewed by clicking the desired MDVR camera module
- Temperature, Voltage, GPS reports may be viewed by clicking the symbol in the respective sections.



This report is comprised of following sections:

MDVR Details:

- Click the Name/Tag to see and edit the MDVR information.
- Click the  to see if your firmware is compatible.
- The text's color will show the status of the firmware's compatibility.

Green	Firmware is compatible
Purple	Firmware is partially or unofficially compatible
Gray	Firmware is unknown
Red	Firmware is not compatible

Vehicle:

- Click vehicle name to see vehicle details.
- Click Depot to see detailed depot information.

Camera/Channels:

- Click the desired channel to see reports from that drive.

Storage:

- Click the desired drive to see reports from that drive.

Temperature:

- Click  to see the temperature reports.

Voltage:

- Click  to see the voltage reports.

GPS Module:

- Click  to see GPS reports.

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Storage

Storage Alarms Dashboard

G4-Vision [Dashboard](#) [Inventory](#) [Administration](#) [Reports](#) [Help](#) [Logout](#)
User: ACME Admin
Fleet: ACME

Dashboard

Check-In

Camera

Storage

Analytics

GPS

Voltage

Temperature

STORAGE ALARMS DASHBOARD

Errors: 1 Monitored: 0

Vehicle Name	DVR S/N	Drive	Size(MB)	State	Current Duration	Previous	Previous Duration	Monitored
Bus 1	CSN: 006001F908	1		●	2019-May 24 10:20 - 2020-Apr 09 16:42 (PST)		- No Data -	

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[Side Menu](#)

Description

- Storage Dashboard displays a list of MDVR storage drives that have reported errors during the Monitoring Interval.
- Monitored MDVR: If an MDVR has reported a Storage error during the Monitoring Period which has since been resolved, then the MDVR will be tagged as "Monitored" until the Monitoring Period has passed.
- If a MDVR has an error the **Error** counter will increase based on the number of MDVRs with errors. After the errors have been fixed, that number will be removed from the **Error** counter, and the **Monitored** counter will increase by the amount removed. After the Monitoring Period has passed the **Monitored** counter will decrease. The default, no errors and no monitored MDVRs, is 0.
- In the example above, there are **Errors: 1** and **Monitored: 0** MDVRs currently.
- Monitoring Interval: The number of days that G4-Vision will look back to report errors from. This period can be set in Administration > Default Settings > Monitoring Days.
- For each MDVR, the State, Current Duration and Previous Duration are indicators of the overall health of the currently installed Storage.
- Hovering the mouse over the Current or Previous State will provide a pop-up with further details on the state of the MDVR Storage.
- Camera / Channel States:

Green	<ul style="list-style-type: none">• No Faults / Normal• Recording
Red	<ul style="list-style-type: none">• Non-existing• Not Formatted• Formatting• Cannot Mount• Drive Full• Read / Write Error• Testing Drive• Partition Error

- MDVR Storage Details: Clicking on the desired row will provide detailed Storage and MDVR information.

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MDVR Storage Details

G4-Vision
User: ACME Admin
Fleet: ACME

- Dashboard
- Check-In
- Camera
- Storage
- Analytics
- GPS
- Voltage
- Temperature

MOBILE DIGITAL VIDEO RECORDER DETAILS

Time values reported in Depot time: (UTC-08:00) Pacific Time (US & Canada)

MDVR Details

Name / Tag: DVR304SD1a
Model: 304SD1a

Configurations: 2 [Details](#)

Chipset S/N: 006001F90B
GSI S/N:

Hardware Version
Firmware: X1H_V252_C_T190129.01

Latest Update: 24-May-2019 12:15
Created Date: 23-May-2019 00:02
Comments:

Vehicle

Vehicle Name: Bus 1
Vehicle Plate:
Depot: ACME Depot

Camera / Channels: Total Analog: 4 Total IP: 1

Channel	Type	Status	Report Date
1	Analog SD	Good	24-May-2019 12:15
2	Analog SD	Good	24-May-2019 12:15
3	Analog SD	Video Loss	24-May-2019 12:15
4	Analog SD	Disabled Analog Channel	24-May-2019 12:15
5	Digital	Good	24-May-2019 12:15

Storage: Hard Drives 0 SDIO Drives 0

Location	Type	ID	Size (MB)	Remaining (MB)	Status	Report Date
MDVR Storage Not Installed						24-May-2019 10:20
Internal	SD Card	2	31847	2596	Recording	24-May-2019 10:17

Temperature (F)

RTC 104 24-May-2019 12:15
RTC 102.2 24-May-2019 10:19

Voltage

Incoming Voltage 11.80 23-May-2019 00:02 To 24-May-2019 12:15 (1x)

GPS Module

Latest Status: OK (24-May-2019 10:19)
Location Tech: GPS

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Description: *Dashboard MDVR Storage Details*

Mobile Digital Video Recorder Details can be viewed when the user requests to "drill-down" into a specific Dashboard Storage Alarm. This report displays the latest reported state of all installed storage on the system.

This form is similar to MDVR Details found in Inventory > MDVR > MDVR Details. However, the main difference here is that the Storage Details section provides storage reports specific to the drive that is being inquired.

Note:

- In the "Dashboard Drill-Down MDVR Details" The DVR date and times are displayed using the DEPOT time zone.
- Users are able to collapse/expand specific sections by clicking the black section titles.
- MDVR can be viewed by clicking the MDVR Name/Tag.
- Camera reports can be viewed by clicking the desired MDVR camera module.
- Temperature, Voltage, and GPS reports may be viewed by clicking the symbol below in the respective sections.



This report is comprised of following sections:

MDVR Details:

- Click the Name/Tag to see and edit the MDVR information.
- Click the **i** to see if your firmware is compatible.
- The text's color will show the status of the firmware's compatibility.

Green	Firmware is compatible
Purple	Firmware is partially or unofficially compatible
Gray	Firmware is unknown
Red	Firmware is not compatible

Vehicle:

- Click vehicle name to see vehicle details.
- Click Depot to see detailed depot information.

Camera/Channels:

- Click the desired channel to see reports from that drive.

Storage:

- Click the desired drive to see reports from that drive.

Temperature:

- Click  to see the temperature reports.

Voltage:

- Click  to see the voltage reports.

GPS Module:

- Click  to see GPS reports.

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Media Analytics

G4-Vision [Dashboard](#) [Inventory](#) [Administration](#) [Reports](#) [Help](#) [Logout](#)
User: gsi_super
Fleet: GSI Fleet

Dashboard

Check-In

Camera

Storage

Analytics

GPS

Voltage

Temperature

MEDIA ANALYTICS DASHBOARD

NOTES ^

Media	Analysis	Vehicle Name	DVR S/N	Channel	Details	Analyzed	Collected
	Quality	Bus 304	CSN: 00990000AB	3	100.00%	2019 Nov 28 06:00	2019 Nov 28 06:00
	Aim	Bus 304	CSN: 00990000AB	4	Aim Moved 	2019 Nov 28 06:00	2019 Nov 28 06:00
	Aim	Bus 304	CSN: 00990000AB	7	Aim Moved 	2019 Nov 28 06:00	2019 Nov 28 06:00
	Normal	Bus 304	CSN: 00990000AB	8	80.00%	2019 Nov 28 06:00	2019 Nov 28 06:00
	Normal	Bus 304	CSN: 009900018E	1	59.00%	2019 Dec 05 08:02	2019 Dec 05 08:01
	Quality	Bus 304	CSN: 009900018E	3	71.00%	2019 Dec 05 08:02	2019 Dec 05 08:01
	Quality	Bus 304	CSN: 009900018E	8	56.00%	2019 Dec 05 08:02	2019 Dec 05 08:01

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Side Menu

Description

Media Analytics is one of the key unique features of G4-Vision HealthCheck which provides system-based verification of Camera and DVR status through analysis of the images received from each DVR channel. Through analysis of the images, G4-Vision is able to detect and report issues with camera aim, signal, and image quality.

G4-Vision's *Media Analytics Dashboard* facility provides a facility to display issues found with DVR cameras across the fleet. At this level, G4-Vision provides a high-level report of all camera issues detected. The information provided may be expanded upon through clicking on each row to get at more details.

To assist in your analysis, the list of issues detected is sortable to enable grouping by issues, dates, DVR serial numbers or vehicle name.

G4-Vision Media Analytics is currently able to detect 3 types of issues:

Status	Icon	Description
Aim		Reported if the camera's view angle has shifted. Note: Only good images are tested for Aim. If a camera image is not acceptable, then it is not tested.
Quality		Reported if blur, lens impairment or an obstruction such as smudge is detected in the camera's image.
Signal		Reported if static or rolling video is detected.
No Reference		In situations where a reference image is not available and the image cannot be tested for aim, this status will be displayed.
Normal		If users choose to view images analyzed as normal but below a specific confidence level, then this status will be displayed. This preference is set in Media Analytics Settings .

Media Analytics Filters: G4-Vision provides the capability for user and fleet operators to fine tune and adjust what gets reported to this Dashboard. For example, some users may only wish to receive reports for analysis confidence levels of 70% or higher. Other users may wish to only receive aim issues where the camera has moved more than 200 pixels. Users may also wish to modify the color-code ranges for Media Analytics confidence levels. All of these preferences are set using the "Media Analytics" menu option of the "Administration" facility.

The Media Analytics Dashboard consists of different types of information:

Media & Analytics: Symbolic repetition of the type of issues detected.

Vehicle Name: Displays the name of the vehicle.

DVR S/N: Displays the DVR Serial Number.

CH: DVR channel number from which the camera image is being received.

Details: AI analysis confidence level. For example, a confidence level of "90%" means that Media Analytics is 90% confident about the issue detected. Similarly, a confidence level of "50%" means that Media Analytics is not very confident about the result detected. User review and final determination is recommended for low-confidence detections. The Aim Moved with an arrow means the direction in which the camera has moved.

Analyzed: When the data is analyzed.

Collected: When the data is collected to the server.

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GPS

GPS Alarms Dashboard

G4-Vision Dashboard Inventory Administration Reports Help Logout User: kwangler@gatekeeper-systems.com
Fleet: Sepla

GPS ALARMS DASHBOARD

Errors: 6 Monitored: 2
GPS Monitored Outage Threshold: 60 Minutes

Vehicle Name	DVR S/N	State	GPS Version	Current Duration	Previous	Previous Duration	Monitored
3315	CSN: 008A000770			Aug-13-2021 13:01 - Sep-14-2021 17:49 (EST)		Aug-02-2021 15:59 - Aug-13-2021 13:01 (EST)	
1067	CSN: 0080000030		SKY2.32_3337_15010801	Sep-14-2021 12:11 - Sep-14-2021 17:49 (EST)		Aug-17-2021 21:17 - Aug-18-2021 01:51 (EST)	
1068	CSN: 008000003F		SKY2.32_3337_15010801C	Aug-18-2021 03:05 - Sep-14-2021 15:29 (EST)		Aug-13-2021 13:45 - Aug-18-2021 03:05 (EST)	
1180	CSN: 008000004F		SKY2.32_3337_150108010	Aug-05-2021 12:43 - Sep-14-2021 17:49 (EST)		Jul-26-2021 17:55 - Aug-05-2021 12:43 (EST)	
9007	CSN: 0080000208		SKY2.32_3337_150108015C	Sep-07-2021 08:12 - Sep-14-2021 15:03 (EST)		Aug-13-2021 18:22 - Aug-14-2021 18:44 (EST)	
531	CSN: 00800001C0		SKY2.32_3337_15010801	Sep-14-2021 10:10 - Sep-14-2021 15:35 (EST)		Aug-16-2021 19:10 - Aug-17-2021 01:50 (EST)	
1216	CSN: 0080000065		SKY2.32_3337_15010801A	Sep-14-2021 15:21 - Sep-14-2021 15:21 (EST)		Sep-13-2021 08:08 - Sep-13-2021 09:39 (EST)	
1148	CSN: 00800001ED		SKY2.32_3337_15010801	Sep-14-2021 17:28 - Sep-14-2021 17:49 (EST)		Sep-09-2021 20:32 - Sep-13-2021 09:34 (EST)	

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Description

Clicking on the GPS icon on the Dashboard will bring up the GPS Alarms Dashboard window.

If an MDVR has reported a GPS error which has since been resolved the MDVR will be monitored for the specified number of days as set in Administration > Default settings > Monitoring days. This monitoring will be shown as a triangle (⚠) in the GPS Alarms Dashboard.

If a MDVR has an error the **Error** counter will increase based on the number of MDVRs with errors. After the errors have been fixed, that number will be removed from the **Error** counter, and the **Monitored** counter will increase by the amount removed. After the Monitoring Period has passed the **Monitored** counter will decrease. The default, no errors and no monitored MDVRs, is 0.

In the example above, there are **Errors: 6** and **Monitored: 2** MDVRs currently.

The GPS Monitored Outage Threshold (set to 60 minutes) is the time between readings that the satellite gathers from the connected GPS. The threshold allows the user to set a time frame between readings to help prevent false errors of the GPS disconnecting from the satellite for a short time (example, the vehicle entering a tunnel).

Potential errors reported by the GPS module can include; a bad antenna, a poor antenna connection, or a GPS module.

Note: *Due to the threshold time frame stopping false errors of the GPS being disconnected from the satellite for a short time, it may not catch other errors, like a loose wire connecting and re-connecting.*

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MDVR GPS Details

- Dashboard
- Check-In
- Camera
- Storage**
- Analytics
- GPS
- Voltage
- Temperature

MOBILE DIGITAL VIDEO RECORDER DETAILS

Time values reported in Depot time: (UTC-08:00) Pacific Time (US & Canada)

MDVR Details

Name / Tag	DVR304SD1a
Model	304SD1a
Configurations	2 Details
Chipset S/N	006001F90B
SSI S/N	
Hardware Version	
Firmware	X1H_V252_C_T190129.01 i
Latest Update	24-May-2019 12:15
Created Date	23-May-2019 00:02
Comments	

Vehicle

Vehicle Name	Bus 1
Vehicle Plate	
Depot	ACME Depot

Camera / Channels Total Analog: 4 Total IP: 1

Channel	Type	Status	Report Date
1	Analog SD	Good	24-May-2019 12:15
2	Analog SD	Good	24-May-2019 12:15
3	Analog SD	Video Loss	24-May-2019 12:15
4	Analog SD	Disabled Analog Channel	24-May-2019 12:15
5	Digital	Good	24-May-2019 12:15

Storage Hard Drives 0 SDIO Drives 0

Location	Type	ID	Size (MB)	Remaining (MB)	Status	Report Date
MDVR Storage Not Installed						
Internal	SD Card	2	31847	2596	Recording	24-May-2019 10:17

Temperature (F)

RTC	104	24-May-2019 12:15
RTC	102.2	24-May-2019 10:19

Voltage

Incoming Voltage	11.80	23-May-2019 00:02 To 24-May-2019 12:15 (1x)
------------------	-------	---

GPS Module

Latest Status	OK (24-May-2019 10:19)
Location Tech	GPS

Description

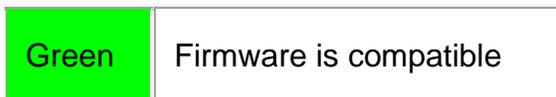
The Mobile Digital Video Recorder provides detailed information about the MDVR and links to even more details.

Note: The DVR date and times are displayed using the DEPOT time zone.

This report is comprised of the following sections:

MDVR Details:

- Click the Name/Tag to see and edit the MDVR information.
- Click the to see if your firmware is compatible.
- The text's color will show the status of the firmware's compatibility.



Purple	Firmware is partially or unofficially compatible
Gray	Firmware is unknown
Red	Firmware is not compatible

Vehicle:

- Click vehicle name to see vehicle details.
- Click Depot to see detailed depot information.

Camera/Channels:

- Click the desired channel to see reports from that drive.

Storage:

- Click the desired drive to see reports from that drive.

Temperature:

- Click  to see the temperature reports.

Voltage:

- Click  to see the voltage reports.

GPS Module:

- Click  to see GPS reports.

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Voltage

Voltage Alarms Dashboard

G4-Vision Dashboard Inventory Administration Reports Help Logout
User: kayu@chilli.com
Fleet: Chilliwack

Dashboard

Check-In

Camera

Storage

Analytics

GPS

Voltage

Temperature

VOLTAGE ALARMS DASHBOARD

Errors: 10 Monitored: 0

Vehicle Name	DVR S/N	Voltage	Source	State	Current Duration	Previous	Prev Volt	Previous Duration	Monitored
BUS 49	CSN: 00001019F	13.29	Incoming Voltage	●	Aug 25 2021 10:07 - Sep 17 10:35 (PST)	●	12.49	Aug 25 10:39 - Aug 28 10:56 (PST)	
BUS 30	CSN: 000100071D	13.00	Incoming Voltage	●	Mar 04 2021 13:34 - Sep 17 08:28 (PST)	●	13.00	Mar 04 06:45 - Mar 04 13:33 (PST)	
BUS 34	CSN: 000007E8F	13.00	Incoming Voltage	●	Aug 31 2021 13:18 - Sep 17 09:04 (PST)	●	11.20	Aug 25 10:54 - Aug 31 13:18 (PST)	
BUS 36	CSN: 000002C52	13.40	Incoming Voltage	●	Sep 07 2021 07:00 - Sep 17 06:50 (PST)	●	13.60	Aug 25 11:02 - Sep 07 07:00 (PST)	
BUS 6	CSN: 00000048D	13.40	Incoming Voltage	●	Jul 30 2021 11:20 - Sep 17 06:40 (PST)	●	13.00	Jun 18 22:56 - Jul 30 11:20 (PST)	
BUS 7	CSN: 00001004C	13.40	Incoming Voltage	●	May 05 2021 01:24 - Sep 17 18:12 (PST)	●	13.40	May 04 00:44 - May 04 15:39 (PST)	
BUS 41	CSN: 000017FAA	12.40	Incoming Voltage	●	May 03 2021 01:37 - Sep 17 18:51 (PST)	●	13.60	Apr 28 04:04 - Apr 29 14:06 (PST)	
P3 MANDAL	CSN: 00000125B9	11.00	Incoming Voltage	●	Jun 07 2021 02:02 - Sep 17 04:23 (PST)	●	11.80	May 19 18:42 - Jun 06 20:27 (PST)	
BUS 32	CSN: 00000798E	13.40	Incoming Voltage	●	May 25 2021 06:33 - Sep 17 08:50 (PST)	●	11.80	May 21 09:03 - May 25 06:33 (PST)	
BUS 21	CSN: 000002D464	13.20	Incoming Voltage	●	May 25 2021 06:49 - Sep 17 10:40 (PST)	●	13.00	May 21 11:22 - May 25 06:40 (PST)	

Threshold Min [15] - Max [32] Volts

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Description

- The Voltage Alarms Dashboard displays MDVR reported Voltage threshold violations within the Monitoring Interval.
- This threshold is set in Administration Default Settings; however, it is recommended not to change the values unless instructed by Gatekeeper personnel.
- If a MDVR has an error the **Error** counter will increase based on the number of MDVRs with errors. After the errors have been fixed, that number will be removed from the **Error** counter, and the **Monitored** counter will increase by the amount removed. After the Monitoring Period has passed the **Monitored** counter will decrease. The default, no errors and no monitored MDVRs, is 0.
- In the example above, there are **Errors: 10** and **Monitored: 0** MDVRs currently.
- More information can be gathered when the cursor is hovered over any symbol that is listed in the dashboard. For example, hovering over the (●) symbol will show information about the current state of the MDVR.

In the example above we can see that the Voltage threshold for the MDVR's have been set to 8-15 Volts. If the voltage should drop below 8 Volts or spike above 10 Volts the MDVR will be reported in the voltage alarm dashboard. Since the MDVR's are running above 10 volts, it is reported in the Voltage Alarm Dashboard.

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MDVR Voltage Details

G4-Viewion [Dashboard](#) [Inventory](#) [Administration](#) [Reports](#) [Help](#) [Logout](#) User: ACME Admin
Fleet: ACME

[Dashboard](#) [Check-in](#) [Camera](#) **[Storage](#)** [Analytics](#) [GPS](#) [Voltage](#) [Temperature](#)

MOBILE DIGITAL VIDEO RECORDER DETAILS

Time values reported in Depot time (UTC-08:00) Pacific Time (US & Canada)

MDVR Details

Name / Tag: DV5304SD1a
Model: 304SD1a

Configurations: [Details](#)

Chipset SN: 066001F90B
CSB SN:

Hardware Version: X1H_V252_C_T190129.01 !
Firmware: X1H_V252_C_T190129.01 !

Latest Update: 24-May-2019 12:15
Created Date: 23-May-2019 00:02
Comments:

Vehicle

Vehicle Name: Bus 1
Vehicle Plate:
Depot: ACME Depot

Camera / Channels: Total Analog: 4 Total IP: 1

Channel	Type	Status	Report Date
1	Analog SD	Good	24-May-2019 12:15
2	Analog SD	Good	24-May-2019 12:15
3	Analog SD	Video Loss	24-May-2019 12:15
4	Analog SD	Disabled Analog Channel	24-May-2019 12:15
5	Digital	Good	24-May-2019 12:15

Storage: Hard Drives: 0 SDD Drives: 0

Location	Type	ID	Size (MB)	Remaining (MB)	Status	Report Date
MDVR Storage Not Installed						
Internal	SD Card	2	31847	2696	Recording	24-May-2019 10:17

Temperature (F)

RTC	104	24-May-2019 12:15
RTC	102.2	24-May-2019 10:19

Voltage

Incoming Voltage: 11.00 23-May-2019 00:02 To 24-May-2019 12:15 (1x)

GPS Module

Latest Status: OK (24-May-2019 10:19)
Location Tech: GPS

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Description

The Mobile Digital Video Recorder provides detailed information about the MDVR and links to even more details.

Note: The DVR date and times are displayed using the DEPOT time zone.

This report is comprised of the following sections:

MDVR Details:

- Click the Name/Tag to see and edit the MDVR information.
- Click the  to see if your firmware is compatible.
- The text's color will show the status of the firmware's compatibility.

Green	Firmware is compatible
Purple	Firmware is partially or unofficially compatible
Gray	Firmware is unknown
Red	Firmware is not compatible

Vehicle:

- Click vehicle name to see vehicle details.
- Click Depot to see detailed depot information.

Camera/Channels:

- Click the desired channel to see reports from that drive.

Storage:

- Click the desired drive to see reports from that drive.

Temperature:

- Click  to see the temperature reports.

Voltage:

- Click  to see the voltage reports.

GPS Module:

- Click  to see GPS reports.

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Temperature

Temperature Alarms Dashboard

G4-Vision
User: kayak@chill.g4 Fleet: Chillwack

- Dashboard
- Check-In
- Camera
- Storage
- Analytics
- GPS
- Voltage
- Temperature

TEMPERATURE ALARMS DASHBOARD

Errors: 11 Monitored: 0

Vehicle Name	DVR S/N	Temperature	Type	State	Current Duration	Previous	Prev Temp	Previous Duration	Monitored
BUS 49	CSN 00591011F	83.2	RTC	●	Feb-12-2021 06:34 - Feb 12 08:29 (PST)	●	215.6	Feb 12 05:52 - Feb 12 05:53 (PST)	
BUS 49	CSN 00591011F	84.2	Chamber	●	Aug-28-2020 10:57 - Sep 17 10:35 (PST)	●	69.8	Aug 28 10:59 - Aug 28 10:58 (PST)	
BUS 34	CSN 00590789F	83.2	Chamber	●	Aug-31-2021 13:18 - Sep 17 09:04 (PST)	●	62.6	Aug 25 10:54 - Aug 31 13:18 (PST)	
BUS 36	CSN 005902C52	68	RTC	●	Sep-07-2021 07:00 - Sep 17 06:58 (PST)	●	69.6	Aug 25 11:02 - Sep 07 07:00 (PST)	
BUS 6	CSN 0059008460	75.2	RTC	●	Jul-30-2021 11:26 - Sep 17 06:40 (PST)	●	213.0	Feb 12 06:50 - Feb 12 06:50 (PST)	
BUS 6	CSN 0059008460	64.4	Chamber	●	Jul-30-2021 11:26 - Sep 17 06:40 (PST)	●	95	Jun 16 22:56 - Jul 30 11:26 (PST)	
BUS 41	CSN 005917F4A	87.0	RTC	●	Feb-12-2021 09:05 - Sep 17 10:51 (PST)	●	215.6	Feb 12 06:32 - Feb 12 06:32 (PST)	
BUS 41	CSN 005917F4A	78.8	Chamber	●	Feb-12-2021 09:05 - Sep 17 10:51 (PST)	●	215.6	Feb 11 09:56 - Feb 12 06:32 (PST)	
BUS 32	CSN 00590769E	96.8	Chamber	●	May-25-2021 06:33 - Sep 17 08:59 (PST)	●	55.4	May 21 09:03 - May 25 06:33 (PST)	
BUS 21	CSN 005902D464	87.0	RTC	●	May-25-2021 06:49 - Sep 17 10:40 (PST)	●	66.2	May 21 11:22 - May 25 06:48 (PST)	
BUS 21	CSN 005902D464	88.6	Chamber	●	May-25-2021 06:49 - Sep 17 10:40 (PST)	●	55.4	May 21 11:22 - May 25 06:48 (PST)	

Threshold Min [100] Max [140] (F)

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Description

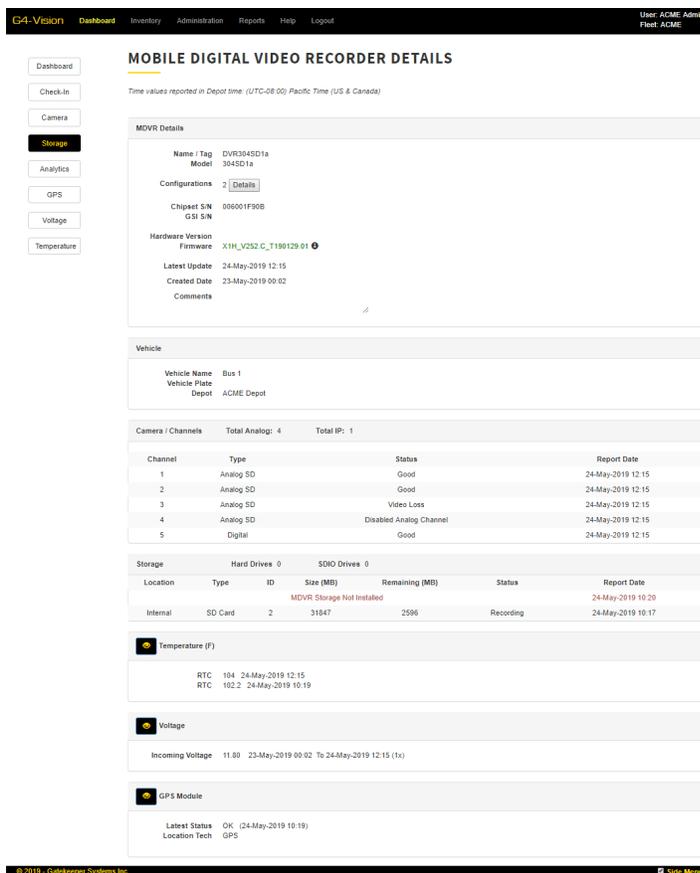
- The Temperature Alarms Dashboard displays MDVR's reported Temperature threshold violations within the Monitoring Interval.
- This threshold is set in Administration Default Settings; however, it is recommended not to change the values unless instructed by Gatekeeper personnel.
- In the example above, we can see that the Temperature threshold for the MDVR's have been set to the range of -40°F (-40°C) to 140°F (60°C). If it happens to be running below -40°F (-40°C) or rise above 140°F (60°C) the MDVR will be reported in the Temperature Alarms Dashboard. Since the MDVR's are running above 140°F (60°C), it is reported to the Temperature Dashboard
- MDVR Temperature threshold violations could point to potential upcoming serious issues. If an MDVR has reported an error which has since been resolved the MDVR will be monitored for the specified number of days. This monitoring will show as a Triangle in the Temperature Alarms Dashboard.
- If a MDVR has an error the **Error** counter will increase based on the number of MDVRs with errors. After the errors have been fixed, that number will be removed from the **Error** counter, and the **Monitored** counter will increase by the amount removed. After the Monitoring Period has passed the **Monitored** counter will decrease. The default, no errors and no monitored MDVRs, is 0.
- In the example above, there are **Errors: 11** and **Monitored: 0** MDVRs currently.

- Chamber temperature reports relate to MDVR's which are equipped with a Hard Disk Drive. The temperature reported is from the sensor on the Hard Disk Drive chip. Temperature range is set in Administration > Default Settings.
- More information can be gathered when the cursor is hovered over any symbol that is listed in the dashboard. For example, hovering over the () symbol will show information about the current state of the MDVR.
- RTC (Real Time Clock) relates to the temperature sensor on the main board adjacent to the CPU.

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MDVR Temperature Details



C4-Vision Dashboard Inventory Administration Reports Help Logout User: ACME Admin
Fleet: ACME

MOBILE DIGITAL VIDEO RECORDER DETAILS

Time values reported in Depot time: (UTC-08:00) Pacific Time (US & Canada)

MDVR Details

Name / Tag: DVR3045D1a
Model: 3045D1a

Configurations: 2 [Details](#)

Chipset S/N: 006001F90B
CSI S/N:

Hardware Version: X1H_V252_C_T190129_01 

Latest Update: 24-May-2019 12:15
Created Date: 23-May-2019 00:02
Comments:

Vehicle

Vehicle Name: Bus 1
Vehicle Plate: ACME Depot
Depot: ACME Depot

Camera / Channels Total Analog: 4 Total IP: 1

Channel	Type	Status	Report Date
1	Analog SD	Good	24-May-2019 12:15
2	Analog SD	Good	24-May-2019 12:15
3	Analog SD	Video Loss	24-May-2019 12:15
4	Analog SD	Disabled Analog Channel	24-May-2019 12:15
5	Digital	Good	24-May-2019 12:15

Storage Hard Drives: 0 SDIO Drives: 0

Location	Type	ID	Size (MB)	Remaining (MB)	Status	Report Date
Internal	SD Card	2	31847	2598	Recording	24-May-2019 10:17

Temperature (F)

RTC: 104 24-May-2019 12:15
RTC: 102.2 24-May-2019 10:19

Voltage

Incoming Voltage: 11.80 23-May-2019 00:02 To 24-May-2019 12:15 (1h)

GPS Module

Latest Status: OK (24-May-2019 10:19)
Location Tech: GPS

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Description

The Mobile Digital Video Recorder provides detailed information about the MDVR and links to even more details.

Note: The DVR date and times are displayed using the DEPOT time zone.

This report is comprised of the following sections:

MDVR Details:

- Click the Name/Tag to see and edit the MDVR information
- Click the  to see if your firmware is compatible.
- The text's color will show the status of the firmware's compatibility

Green	Firmware is compatible
Purple	Firmware is partially or unofficially compatible
Gray	Firmware is unknown
Red	Firmware is not compatible

Vehicle:

- Click vehicle name to see vehicle details.
- Click Depot to see detailed depot information.

Camera/Channels:

- Click the desired channel to see reports from that drive.

Storage:

- Click the desired drive to see reports from that drive.

Temperature:

- Click  to see the temperature reports.

Voltage:

- Click  to see the voltage reports.

GPS Module:

- Click  to see GPS reports.

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Inventory

Inventory Overview



Description

The Inventory subsystem provides the facilities to manage fleet Vehicles and MDVR's

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Vehicle

Vehicle List

VEHICLE

Total: 5

	Name	Plate	Type	Depot	Active	State/Prov	Country	Time Zone
1	Bus 1		32 Passenger Bus	ACME Depot	Y	British Columbia	Canada	PST
	Bus 4		32 Passenger Bus	ACME Depot	Y	British Columbia	Canada	PST
	Bus 5		32 Passenger Bus	ACME Depot	Y	British Columbia	Canada	PST
	Bus 6		32 Passenger Bus	ACME Depot	Y	British Columbia	Canada	PST
	Bus 8		32 Passenger Bus	ACME Depot	Y	British Columbia	Canada	PST

5

Description

The Vehicle Inventory provides a list and overview of all vehicles defined in the system.

There are 5 major features found on this form:

1. Vehicle Details Button: Click to view and edit Vehicle Details.
2. Vehicle List Total: Number of Vehicles in the list based on the Filter applied.
3. Sort/Filter Button: Click to set Sorting and Filtering options for the Vehicle inventory list.
4. New Vehicle Button: Click to Create a New Vehicle.
5. The list of vehicles displayed, along with each vehicle's Depot and Active status.

Note: Only Active vehicles will be processed in the Dashboard.

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New Vehicle

Vehicle

MDVR

NEW VEHICLE

Vehicle Name

Vehicle Depot

Vehicle Type

VIN

Plate Number

Make

Model

In-Service Date (PST)

Active

Comments

Create

Description

This form is used to define new vehicles for the fleet.

Note:

- Vehicle Name must be unique.
- All required fields are highlighted in yellow.

Important:

- Only Active vehicles will be processed in the Dashboard.

- Only vehicles assigned to Depot's will be processed in the Dashboard.

Field Definitions:

Field	Description
Vehicle Name	<ul style="list-style-type: none"> • This is the name that the Vehicle will be referenced by throughout the system.
Vehicle Depot	<ul style="list-style-type: none"> • Depot that the vehicle is assigned to. • Depots may be created in Administration > Depot facility by the fleet Administrator. • Vehicles not assigned to a Depot will not be processed and displayed in the Dashboard.
Vehicle Type	<ul style="list-style-type: none"> • Bus, Truck, Limo, etc.
VIN	<ul style="list-style-type: none"> • Vehicle Identification Number.
Plate Number	<ul style="list-style-type: none"> • Vehicle license plate (Optional).
Make	<ul style="list-style-type: none"> • Vehicle Make (Optional).
Model	<ul style="list-style-type: none"> • Vehicle Model (Optional).
In-Service Date	<ul style="list-style-type: none"> • Date vehicle is introduced into service.
Active	<ul style="list-style-type: none"> • Is this an active vehicle? • Inactive vehicles will not be processed and displayed in the Dashboard.
Comments	<ul style="list-style-type: none"> • Add any additional information that would be relevant to the Vehicle.

[Back to Vehicle List](#)

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View / Edit Vehicle Details

Vehicle

MDVR

VEHICLE DETAILS

Vehicle Name

Bus 1

Vehicle Depot

ACME Depot

Vehicle Type

32 Passenger Bus

VIN

Plate Number

Make

Model

In-Service Date (PST)

May 22, 2019 9:26 AM

Active

Comments

Save

Description

This form is used to view and edit vehicle details.

Note:

- Vehicle Name must be unique.
- All required fields are highlighted in yellow.

Important:

- Only Active vehicles will be processed in the Dashboard.
- Only vehicles assigned to Depot's will be processed in the Dashboard.

Field Definitions:

Field	Description
Vehicle Name	<ul style="list-style-type: none"> • This is the name that the Vehicle will be referenced by throughout the system.
Vehicle Depot	<ul style="list-style-type: none"> • Depot that the vehicle is assigned to. • Depots may be created in Administration > Depot facility by the fleet Administrator. • Vehicles not assigned to a Depot will not be processed and displayed in the Dashboard.
Vehicle Type	<ul style="list-style-type: none"> • Bus, Truck, Limo, etc.
VIN	<ul style="list-style-type: none"> • Vehicle Identification Number.
Plate Number	<ul style="list-style-type: none"> • Vehicle license plate (Optional).
Make	<ul style="list-style-type: none"> • Vehicle Make (Optional).
Model	<ul style="list-style-type: none"> • Vehicle Model (Optional).
In-Service Date	<ul style="list-style-type: none"> • Date vehicle is introduced into service.
Active	<ul style="list-style-type: none"> • Is this an active vehicle? • Inactive vehicles will not be processed and displayed in the Dashboard.
Comments	<ul style="list-style-type: none"> • Add any additional information that would be relevant to the Vehicle.

[Back to Vehicle List](#)

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Mobile Digital Video Recorder (MDVR)

MDVR List

The screenshot displays the 'MDVR INVENTORY' section of the G4-Vision dashboard. At the top, there is a navigation bar with 'G4-Vision' and various menu items like 'Dashboard', 'Inventory', 'Administration', 'Reports', 'Help', and 'Logout'. The user is identified as 'ACME Admin' with a fleet of 'ACME'. Below the navigation, there are tabs for 'Vehicle' and 'MDVR'. The 'MDVR' tab is active, showing a table with two rows of data. The table has columns for 'Chipset S/N', 'GSI S/N', 'Vehicle Name', 'Model', 'MDVR Name', 'HW Version', and 'Active'. The first row shows '006001F90B', 'Bus 1', and '304SD1a'. The second row shows '8675309', 'Bus 8', and 'Dafly'. There are three icons (edit, details, media analytics) in the first column of each row. A 'Total: 2' label is shown above the table. To the right of the table, there are buttons for 'Sort | Filter' and '+ New MDVR'. A 'Side Menu' button is visible in the bottom right corner.

	Chipset S/N	GSI S/N	Vehicle Name	Model	MDVR Name	HW Version	Active
	006001F90B		Bus 1	304SD1a	DVR304SD1a		Y
	8675309		Bus 8		Dafly		Y

Description

The MDVR Inventory facility provides a list and overview of all MDVR's defined in the system.

There are 6 major features found on this form:

1. MDVR Edit Button: Click to view and edit the MDVR information.
2. MDVR Details Button: Click to view detailed MDVR information and reports.
3. MDVR Media Analytics: Click to view the Media Analytics details.
4. MDVR List Total: Number of MDVR's in the list based on the Filter applied.
5. Sort/Filter Button: Click to set Sorting and Filtering options for the MDVR inventory list.
6. New MDVR Button: Click to Create a New MDVR.

Note:

- *By default, MDVR's are self registering - meaning that it is not necessary to create MDVR's manually. It is recommended to allow MDVR's to register automatically and then edit their details as required.*

- MDVR's active status requires that it is marked as "Active" and the "End Service Date" must be in the future.
- Only MDVR's assigned to Active vehicles will be processed in the Dashboard.

[Back to Inventory](#)

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MDVR Media Analytics

The screenshot displays the MDVR Media Analytics interface. At the top, there's a navigation bar with 'CP4-Viewer', 'Dashboard', 'Inventory', 'Administration', 'Reports', 'Help', and 'Logout'. The user is identified as 'User: gki_super' with 'Fleet: G31 Fleet'. Below the navigation, there are tabs for 'Vehicle' and 'MDVR'. The main content area is titled 'MDVR MEDIA ANALYTICS' and includes a sub-header 'Time values reported in MDVR time: (UTC-08:00) Pacific Time (US & Canada)'. The 'MEDIA ANALYTICS' section shows a table of cameras with columns for Channel, Reference, Snapshot, Type, Channel Status, SNR, Signal, PMS, and RF. It also includes buttons for 'Schedule Reference Images' and 'Schedule Snapshot Images'. Below this is the 'MDVR DETAILS' section, which provides information about the device's name/tag, model, chipset/SIN, hardware version, and firmware, along with configuration details like configurations, latest update, and created date. The bottom section contains two tables: 'RECENT CAMERA REFERENCE IMAGE REQUESTS' and 'RECENT CAMERA SNAPSHOT REQUESTS', both showing request details like channel, creation time, processing time, request type, and result.

Description: MDVR Media Analytics

This page provides the facility to review Media Analytics Settings and Results and to request Reference Images and Snapshots.

Click on the name of the section to expand or collapse it.

Active MDVR channels may also be selectively excluded from Media Analysis. Reasons for excluding MDVR classes of analysis (Aim, quality, signal) from a channel would be:

- Aim analysis may not be possible (e.g., External cameras with no fixed reference).
- Privacy concerns.

Section	Description										
Media Analytics	<p data-bbox="513 235 1408 268">Displays the MDVR Camera/Channel configuration, including:</p> <ul data-bbox="561 310 1333 611" style="list-style-type: none"> <li data-bbox="561 310 1149 344">• Total Analog and IP cameras attached <li data-bbox="561 348 948 382">• MDVR Channel number <li data-bbox="561 386 846 420">• Latest reference, <li data-bbox="561 424 834 457">• Latest snapshot <li data-bbox="561 462 867 495">• Snapshot analysis <li data-bbox="561 499 992 533">• Channel Exclusion settings <li data-bbox="561 537 1333 611">• Individual Channel Reference and Snapshot retake requests. <p data-bbox="513 653 948 686">DVR Reported Configuration</p> <table border="1" data-bbox="513 722 1414 1822"> <tbody> <tr> <td data-bbox="513 722 740 793">Channel</td> <td data-bbox="747 722 1414 793">Corresponds to the actual DVR Channel number in the back of the MDVR.</td> </tr> <tr> <td data-bbox="513 802 740 1163">Reference</td> <td data-bbox="747 802 1414 1163">A Reference image is the base channel image used when detecting if the <u>camera aim has moved</u>. These images are typically taken once cameras have been installed in the desired locations. The images may be updated later or periodically as desired using the manual Reference image request buttons for the specific channel or the MDVR as a whole. You can click on the Reference image to see it in a larger view.</td> </tr> <tr> <td data-bbox="513 1171 740 1457">Snapshot</td> <td data-bbox="747 1171 1414 1457">These are the latest images pulled from the MDVR channel for analysis. HealthCheck will periodically request Snapshots from cameras attached to each channel for analysis. Snapshots may also be requested manually for the whole MDVR or for specific channels. You can click on the Snapshot image to see it in a larger view.</td> </tr> <tr> <td data-bbox="513 1465 740 1537">Type</td> <td data-bbox="747 1465 1414 1537">The column will display the type of the camera attached to the channel.</td> </tr> <tr> <td data-bbox="513 1545 740 1822">Channel Status</td> <td data-bbox="747 1545 1414 1822"> <p data-bbox="753 1545 1268 1579">Displays the detected camera issue:</p> <ul data-bbox="802 1612 1308 1801" style="list-style-type: none"> <li data-bbox="802 1612 1166 1646">• Blank/None: No Issue <li data-bbox="802 1650 1308 1684">• Quality: Blur, Focus, Distortions <li data-bbox="802 1688 1203 1722">• Aim: Camera Movement <li data-bbox="802 1726 1308 1801">• Video Loss: Blue/Black-Screen, Rolling Video, Static </td> </tr> </tbody> </table>	Channel	Corresponds to the actual DVR Channel number in the back of the MDVR.	Reference	A Reference image is the base channel image used when detecting if the <u>camera aim has moved</u> . These images are typically taken once cameras have been installed in the desired locations. The images may be updated later or periodically as desired using the manual Reference image request buttons for the specific channel or the MDVR as a whole. You can click on the Reference image to see it in a larger view.	Snapshot	These are the latest images pulled from the MDVR channel for analysis. HealthCheck will periodically request Snapshots from cameras attached to each channel for analysis. Snapshots may also be requested manually for the whole MDVR or for specific channels. You can click on the Snapshot image to see it in a larger view.	Type	The column will display the type of the camera attached to the channel.	Channel Status	<p data-bbox="753 1545 1268 1579">Displays the detected camera issue:</p> <ul data-bbox="802 1612 1308 1801" style="list-style-type: none"> <li data-bbox="802 1612 1166 1646">• Blank/None: No Issue <li data-bbox="802 1650 1308 1684">• Quality: Blur, Focus, Distortions <li data-bbox="802 1688 1203 1722">• Aim: Camera Movement <li data-bbox="802 1726 1308 1801">• Video Loss: Blue/Black-Screen, Rolling Video, Static
Channel	Corresponds to the actual DVR Channel number in the back of the MDVR.										
Reference	A Reference image is the base channel image used when detecting if the <u>camera aim has moved</u> . These images are typically taken once cameras have been installed in the desired locations. The images may be updated later or periodically as desired using the manual Reference image request buttons for the specific channel or the MDVR as a whole. You can click on the Reference image to see it in a larger view.										
Snapshot	These are the latest images pulled from the MDVR channel for analysis. HealthCheck will periodically request Snapshots from cameras attached to each channel for analysis. Snapshots may also be requested manually for the whole MDVR or for specific channels. You can click on the Snapshot image to see it in a larger view.										
Type	The column will display the type of the camera attached to the channel.										
Channel Status	<p data-bbox="753 1545 1268 1579">Displays the detected camera issue:</p> <ul data-bbox="802 1612 1308 1801" style="list-style-type: none"> <li data-bbox="802 1612 1166 1646">• Blank/None: No Issue <li data-bbox="802 1650 1308 1684">• Quality: Blur, Focus, Distortions <li data-bbox="802 1688 1203 1722">• Aim: Camera Movement <li data-bbox="802 1726 1308 1801">• Video Loss: Blue/Black-Screen, Rolling Video, Static 										

Camera Issues Detection	
None	<p>This column is used to communicate G4-Vision's certainty that the Snapshot analyzed has no Quality or Signal issues. If no value is displayed in this column, then there was a Quality issue, Signal issue or no image for the channel.</p> <p>It is highly recommended that snapshots with confidence levels below 65% be manually inspected for accuracy.</p>
Quality	<p>This column is used to communicate G4-Vision's certainty that the Snapshot analyzed has been deemed to have a Quality issue.</p> <p>Snapshots are deemed to have Quality issues if they show blur, out-of-focus, solar flare, smudge or distortion.</p> <p>It is highly recommended that Snapshots with G4-Vision Certainty of 65% or lower be manually inspected for accuracy.</p>
Signal	<p>This column is used to communicate G4-Vision's certainty that the Snapshot analyzed has been deemed to have a Signal issue.</p> <p>Snapshots are deemed to have Signal issues if they exhibit Blue/Black-screen, rolling video or pure static. Reasons for the bad signal are loose cable connections, faulty wires, and slow or bad internet signals among many others.</p> <p>It is highly recommended that Snapshots with G4-Vision Certainty of</p>

		65% or lower be manually inspected for accuracy.
	Aim	This column is used to communicate G4-Vision's certainty that the camera from which the Snapshot is analyzed has moved from the desired position as indicated by the Reference Image.
	Details	<p>Displays the selected Media Analytics Exclusion settings and further details about issues detected with the image.</p> <p>Media Analytics Exclusions can be set for the channel by clicking the 'gear' icon for the given channel. You may choose to ask G4-Vision not to analyze a particular channel for Aim, Quality or Signal analysis to keep the Dashboard more manageable. For example, for an exterior camera where Aim cannot be readily determined, you may choose to exclude that camera from Analysis.</p>
	Settings	<p>Media Analytics Exclusions allows of exclusion of a particular channel for Aim, Quality or Signal analysis to keep the Dashboard more manageable.</p> <p>For example, for an exterior camera (e.g., Front-facing camera) where Aim cannot be readily determined, you may choose to exclude that camera from Analysis to avoid receiving Aim-detection errors on the Dashboard.</p> <p>To request channel exclusions:</p> <ol style="list-style-type: none"> 1. Click on the setting icon (gear). The pop-up window will open. 2. Select the options you want exclude. 3. Click on the Save button to save the settings or the close button at any times to close the window without saving.

	Analysis Date	The field displayed the date on which the system ran tests and found the issue
	Schedule References	<p>When clicked, asks HealthCheck to pull new Reference images for ALL configured channels on this MDVR. The system will attempt to pull two images for the reference. One is for the daylight and other if for the night light. The time can be set after a click on the "Schedule Reference" button. If the system is missing one image, it will show and error on the desktop.</p> <p>Also, by default, there is a 2-hour window that system used to collect the images. For example, if the Daylight image is scheduled at 9 AM, then the system will try to pull the image till 11 AM. If the DVR is not connected to the server, because of no internet or any other reason, then the DVR will not pull any reference Image.</p> <p>Now the HealthCheck can also pull the images from the recorded video. If selected, then the system will go to the scheduled day and time and pull the first frame that will fall under the time period.</p>
	Schedule Snapshots	When clicked, asks HealthCheck to pull new Snapshot images for ALL configured channels on this MDVR.
	R	<p>Request a new Reference image for a specific configured channel on this MDVR.</p> <p>The system will attempt to pull this image upon the MDVR's next connection to the system.</p>
	S	Request a new Snapshot image for a specific configured channel on this MDVR.

		The system will attempt to pull this image upon the MDVR's next connection to the system.								
MDVR Details	<p>This section is collapsed by default. Click on the MDVR Details to expand the section.</p> <ul style="list-style-type: none"> • Click the Name/Tag to see and edit the MDVR information. • Click the  to see if your firmware is compatible. • The text's color will show the status of the firmware's compatibility. <table border="1" data-bbox="609 814 1222 1108"> <tr> <td>Green</td> <td>Firmware is compatible.</td> </tr> <tr> <td>Purple</td> <td>Firmware is partially or unofficially compatible.</td> </tr> <tr> <td>Gray</td> <td>Firmware is unknown.</td> </tr> <tr> <td>Red</td> <td>Firmware is not compatible.</td> </tr> </table>		Green	Firmware is compatible.	Purple	Firmware is partially or unofficially compatible.	Gray	Firmware is unknown.	Red	Firmware is not compatible.
Green	Firmware is compatible.									
Purple	Firmware is partially or unofficially compatible.									
Gray	Firmware is unknown.									
Red	Firmware is not compatible.									
Recent Camera Reference Image Requests	<p>Displays the last time a Reference image was requested for each channel. Click on the individual channel to see the Recent Camera Reference Image Requests history.</p>									
Recent Camera Snapshot Requests	<p>Displays the last time a Snapshot image was requested for each channel. Click on the individual channel to see the Recent Camera Snapshot Requests history.</p>									

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View MDVR Details

Vehicle

MDVR

MOBILE DIGITAL VIDEO RECORDER DETAILS

Time values reported in MDVR time: (UTC-08:00) Pacific Time (US & Canada)

MDVR Details

Name / Tag DVR304SD1a
Model 304SD1a

Configurations 2 [Details](#)

Chipset S/N 006001F90B
GSI S/N

Hardware Version
Firmware X1H_V252.C_T190129.01 ⓘ

Latest Update 24-May-2019 12:15
Created Date 23-May-2019 00:02
Comments

Vehicle

Vehicle Name Bus 1
Vehicle Plate
Depot ACME Depot

Camera / Channels **Total Analog:** 4 **Total IP:** 1

Channel	Type	Status	Report Date
1	Analog SD	Good	24-May-2019 12:15
2	Analog SD	Good	24-May-2019 12:15
3	Analog SD	Video Loss	24-May-2019 12:15
4	Analog SD	Disabled Analog Channel	24-May-2019 12:15
5	Digital	Good	24-May-2019 12:15

Storage **Hard Drives** 0 **SDIO Drives** 0

Location	Type	ID	Size (MB)	Remaining (MB)	Status	Report Date
MDVR Storage Not Installed						24-May-2019 10:20

Temperature (F)

RTC 104 24-May-2019 12:15

Voltage

Incoming Voltage 11.80 24-May-2019 12:15

GPS Module

Latest Status OK (24-May-2019 12:15)
Location Tech GPS

Description

The Mobile Digital Video Recorder provides detailed information about the MDVR and links to even more details.

Note: The DVR date and times are displayed using the DVR's reported time zone.

This report is comprised of following sections:

MDVR Details:

- Click the Name/Tag to see and edit the MDVR information.
- Click the  to see if your firmware is compatible.
- The text's color will show the status of the firmware's compatibility.

Green	Firmware is compatible
Purple	Firmware is partially or unofficially compatible
Gray	Firmware is unknown
Red	Firmware is not compatible

Vehicle:

- Click vehicle name to see vehicle details.
- Click Depot to see detailed depot information.

Camera/Channels:

- Click the desired channel to see reports from that drive.

Storage:

- Click the desired drive to see reports from that drive.

Temperature:

- Click  to see the temperature reports.

Voltage:

- Click  to see the voltage reports.

GPS Module:

- Click  to see GPS reports.

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New MDVR

G4-Vision [Dashboard](#) [Inventory](#) [Administration](#) [Reports](#) [Help](#) [Logout](#) User: ACME Admin
Fleet: ACME

Vehicle

MDVR

NEW MDVR

Chipset Serial Number

GSI Serial Number

Vehicle Name

MDVR Model

DVR Name/Tag

Hardware Version

In-Service Date (PST)

Active

GPS Disabled

Comments

Create

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Description

This form is used to define a new MDVR for the fleet.

By default, MDVR's are self-registering - meaning that it is not necessary to create MDVR's manually. It is recommended to allow MDVR's to register automatically and then edit their details as required.

Notes:

- Chipset Serial Number must be unique.
- DVR Name/Tag must be unique.
- All required fields, **highlighted in yellow**, must be provided.

Important: Only Active MDVR's associated with Active vehicles that have been assigned to a Depot will be processed in the Dashboard. An Active MDVR is defined as follows:

- MDVR "Active" Flag is checked.
- MDVR Service End Date has not expired - this date is only available in the [MDVR Edit](#) facility.

Field Definitions:

Field	Description
Chipset Serial Number	<ul style="list-style-type: none">• This is the value returned from the MDVR.
GSI Serial Number	<ul style="list-style-type: none">• Internal serial used by GSI for warranty tracking.
Vehicle ID	<ul style="list-style-type: none">• Vehicle ID as designated within the fleet. This value should be unique.
MDVR Model	<ul style="list-style-type: none">• Selected from the drop-down list of currently tracked MDVR's.
DVR Name/Tag	<ul style="list-style-type: none">• Identification of the MDVR within the fleet. This value should be unique.
Hardware Version	<ul style="list-style-type: none">• The currently installed Firmware version.
Service Start Date	<ul style="list-style-type: none">• Use the provided calendar to select the date for the initial date the MDVR will be in service.
Service End Date	<ul style="list-style-type: none">• Use the provided calendar to set the date for when the MDVR be decommissioned. The MDVR is deemed as NOT Active beyond this date, even if the Active status is checked. Active.

	<ul style="list-style-type: none"> • If inactive, MDVR not to show in Reports or Dashboard.
Time Zone	<ul style="list-style-type: none"> • Displays the last returned Time Zone. • This is a display-only field.
Last Update Date	<ul style="list-style-type: none"> • Displays the last returned MDVR update. • This is a display-only field.
Last Update Source ID	<ul style="list-style-type: none"> • Displays the source of the MDVR information. • This is a display-only field.
Created Date	<ul style="list-style-type: none"> • Date on which the MDVR was first entered into service.
Active	<ul style="list-style-type: none"> • Check box to enable the MDVR to show in HealthCheck. If this option is not selected, the MDVR will not show in the Dashboard.
Comments	<ul style="list-style-type: none"> • Add any additional information that would be relevant to the MDVR.

[Return to MDVR List](#)

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Edit MDVR

Vehicle

EDIT MDVR

MDVR

Chipset Serial Number 0090000AB

GSI Serial Number

Vehicle Name Bus 304

MDVR Model

DVR Name/Tag BUS304y58

Hardware Version

In-Service Date (UTC)

End-Service Date (UTC)

Time Zone (UTC-08:00) Pacific Time (US & Canada)

Last Update Date 14-Jan-2020 20:42 (UTC)

Last Update Source ID DVR Query

Created Date 27-Nov-2019 18:33 (UTC)

Active

GPS Disabled

Comments

Dashboard Monitoring Components

GPS

Camera / Channel 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16 • Configured cameras

Storage All selected (4) •

DVR Warmup Delay

Module GPS •

Save

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Description

This form provides the facility to view and modify Mobile Digital Video Recorder information.

Notes:

- Chipset Serial Number must be unique
- DVR Name/Tag must be unique
- All required fields, **highlighted yellow**, must be provided.
- All display-only fields are **highlighted in gray**

Important - Only Active MDVR's associated with Active vehicles that have been assigned to a Depot will be processed in the Dashboard. An Active MDVR is defined as follows:

- MDVR "Active" Flag is checked.
- MDVR Service End Date has not expired.

Field Definitions:

Field	Description	
Chipset Serial Number	<ul style="list-style-type: none"> This is the value returned from the MDVR. 	
GSI Serial Number	<ul style="list-style-type: none"> Internal serial used by GSI for warranty tracking. 	
Vehicle ID	<ul style="list-style-type: none"> Vehicle ID as designated within the fleet. This value should be unique. 	
MDVR Model	<ul style="list-style-type: none"> Selected from the drop-down list of currently tracked MDVR's. 	
DVR Name/Tag	<ul style="list-style-type: none"> Identification of the MDVR within the fleet. This value should be unique. 	
Hardware Version	<ul style="list-style-type: none"> The currently installed Firmware version. 	
Service Start Date	<ul style="list-style-type: none"> Use the provided calendar to select the date for the initial date the MDVR will be in service. 	
Service End Date	<ul style="list-style-type: none"> Use the provided calendar to set the date for when the MDVR be decommissioned. The MDVR is deemed as NOT Active beyond this date, even if the Active status is checked. Active. If inactive, MDVR not to show in Reports or Dashboard. 	
Time Zone	<ul style="list-style-type: none"> Displays the last returned Time Zone. This is a display-only field. 	
Last Update Date	<ul style="list-style-type: none"> Displays the last returned MDVR update. This is a display-only field. 	
Last Update Source ID	<ul style="list-style-type: none"> Displays the source of the MDVR information. This is a display-only field. 	
Created Date	<ul style="list-style-type: none"> Date on which the MDVR was first entered into service. 	
Active	<ul style="list-style-type: none"> Check box to enable the MDVR to show in HealthCheck. If this option is not selected the MDVR will not show in the Dashboard. 	
Comments	<ul style="list-style-type: none"> Add any additional information that would be relevant to the MDVR. 	
Dashboard Monitoring Components	GPS	Enable/Disable the Dashboard monitoring of GPS related errors. Disabling GPS Dashboard monitoring may be required when vehicles frequently lose visibility to GPS satellites (e.g., Underground Parking), thereby reporting GPS errors in the Dashboard.
	Camera/Channels	<p>Enable/Disable monitoring of specific camera/channels in the Dashboard. This may be required in situations when a particular MDVR Camera is regularly reporting errors on the Dashboard due to MDVR configuration, known installation issue or other reasons. For example, in MDVR configurations where a Stop-Arm is deployed, camera issues may be reported for the Stop-Arm camera every time the Stop-Arm is deployed.</p> <p><i>By default</i>, this field only shows the “Configured Cameras” for the given MDVR. To view all channels on the MDVR, click the “Configured Cameras” button. The drop-down field will now display all channels</p>

	<p>for the current MDVR. Removing non-configured channels on the DVR will take effect even if the channel is not configured on the MDVR. This means that the channel will be ignored once the MDVR channel is eventually configured. It is recommended that only Configured Cameras are excluded from the Dashboard.</p> <p>To Exclude a channel/camera:</p> <ol style="list-style-type: none"> 1. Click on the “Camera / Channel” drop-down field. 2. De-select the channel to be removed from Dashboard monitoring by removing the check. <p>Alternatively, “Select All” or “Deselect All” will include or remove all storage classes from Dashboard Monitoring.</p>
	<p>Storage</p> <p>Enable/Disable monitoring of specific MDVR storage drives. This may be required if inaccurate storage reports are being received from a DVR, when not interested in a DVR's storage report, or if advised by Gatekeeper.</p> <p>To Exclude an MDVR storage class:</p> <ol style="list-style-type: none"> 1. Click on the “Storage” drop-down field. 2. De-select the storage class to be removed from Dashboard monitoring. <p>Alternatively, “Select All” or “Deselect All” will include or remove all storage classes from Dashboard Monitoring.</p>
<p>DVR Warm up Delay</p>	<ul style="list-style-type: none"> • It is a series of settings that delay the health check application to report the errors on the Dashboard after booting up. • Modules can be selected from the drop-down list. • Select the DVR to delay all the warnings. • The default time, in seconds, is displayed in the parentheses.

[Return to MDVR List](#)

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Administration

Administration Overview

G4-Vision Dashboard Inventory **Administration** Reports Help Logout User: ACME Admin
Fleet: ACME

ADMINISTRATION

- Default Settings
- Fleet Info
- Depot
- User
- Location
- Analytics



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Description

The Inventory subsystem provides the facilities to manage:

Facility	Description	Access
Default Settings	Monitoring Intervals, Password Policy, Thresholds, etc.	Administrators have access to more settings.
Fleet Information	Primary Contact, Address, Locale, Time Zone.	Administrator-only access.
Depot	Manage Depots to assign vehicles.	Administrator-only access.
Fleet Locations	Manage Locations to assign vehicles.	Administrator-only access.
Fleet Users	Manage Fleet users or own account.	Non-Administrators can only see own account.
Analytics	Manages the Media Analytics settings.	Premium Paid Access.

Default Settings

- Default Settings
- Fleet Info
- Depot
- User
- Location
- Analytics

DEFAULT SETTINGS

Default Settings Notes and Description

Default Depot: All Depots

Default Locale: English, Canada

Monitoring Days (System Default: 7 Days)

Fleet:

User:

MDVR Reporting Threshold (System Default: 2 Days)

Fleet:

User:

Default Units (System Default: US/Imperial)

Fleet:

User:

Display Rows Per Page (System Default: 10)

Fleet:

User:

Fleet MDVR Temperature Thresholds (Sys Default Min/Max: -40/140 F)

Minimum:

Maximum:

Fleet MDVR Voltage Thresholds (Sys Default Min/Max: 8/16 Volts)

Minimum:

Maximum:

Fleet Dashboard Display Warnings (Sys Default: Hide)

Disabled Analog Channel:

Disabled Channel No Camera:

Disabled Channel With Camera:

Password Settings

System Defaults used for fields left blank. Use '0' to disable settings.

Minimum Characters	<input type="text" value="System Default"/>	<input type="button" value="System Default: 4 Range: 4-50"/>
Expiration Days	<input type="text" value="System Default"/>	<input type="button" value="System Default: 90 Range: 0-365"/>
Reuse Allowed After	<input type="text" value="System Default"/>	<input type="button" value="System Default: 5 Range: 0-99"/>
Min. L Case Count	<input type="text" value="System Default"/>	<input type="button" value="System Default: 1 Range: 0-4"/>
Min. U Case Count	<input type="text" value="System Default"/>	<input type="button" value="System Default: 1 Range: 0-4"/>
Min. Digits Count	<input type="text" value="System Default"/>	<input type="button" value="System Default: 1 Range: 0-4"/>
Min. Special Chars	<input type="text" value="System Default"/>	<input type="button" value="System Default: 1 Range: 0-4"/>
Max Consecutive Chars	<input type="text" value="System Default"/>	<input type="button" value="System Default: 2 Range: 0, 2-16"/>
Max Repeat Chars	<input type="text" value="System Default"/>	<input type="button" value="System Default: 2 Range: 0, 2-16"/>
Failed Attempts Limit	<input type="text" value="System Default"/>	<input type="button" value="System Default: 4 Range: 0-99"/>

Description

This facility is used to set the default values for a variety of system-wide settings. These values may be set to apply only to specific users or to take effect fleet-wide.

All fields displayed on this form have a default system value and these values must be noted prior to modification. These values are displayed in the header of each section as can be seen in the form above.

How the system uses these values:

- User-level defaults have the highest precedence and will be used by the system if defined for the current user.
- Fleet-level defaults will be used if no User-level default has been defined for the given setting.
- System-level defaults will be used if no Fleet or User-Level default has been defined for the given setting.

Clearing / Resetting Defaults:

- Click "Reset User Settings" to clear all defaults defined for the current user.
- Click "Reset Fleet Settings" to clear all fleet-level defined defaults. Note, any user-level settings defined will not be affected.

Note:

- *Not all values are visible by non-administrative users.*
- *The values of Temperature and Voltage Threshold, when changed, effect the entire Fleet, rather than just the user who changed it.*

Field / Settings Definitions:

Setting	Description
Default Depot	<ul style="list-style-type: none">• The Default Depots limits all Dashboard reporting to the selected depot (if one is selected).
Default Locale	<ul style="list-style-type: none">• The default language to be used for the fleet when new users are created. This setting is currently not used.
Monitoring Days	<ul style="list-style-type: none">• Determines how many days back to scan for issues reported and how long an issue will be monitored for after it has been detected. Values can be set for Fleet and User.
MDVR Reporting Threshold (Days)	<ul style="list-style-type: none">• Maximum number of days a vehicle's DVR has to report its statues to HealthCheck. Failing to do so will report the vehicle to the Dashboard.
Default Units	<ul style="list-style-type: none">• Metric or US/Imperial. Measuring system used to report values to the user. This is a fleet-wide setting.

Fleet MDVR Temperature Thresholds	<ul style="list-style-type: none"> • Sets the minimum and maximum acceptable operating temperature range for fleet MDVR's. • The default system temperature threshold values are -40°F and 140°F (-40°C and 60°C). • Values outside of the threshold range will result in errors being displayed for the offending MDVR. • Given these values, in the Dashboard, a blue status is used to indicate MDVR temperatures below the minimum threshold and red status to indicate values above the maximum threshold.
Fleet MDVR Voltage Thresholds	<ul style="list-style-type: none"> • Sets the minimum and maximum acceptable operating voltage range for fleet MDVR's. • The default system voltage threshold values are 8 and 15 volts. • Values outside of threshold range will result in errors being displayed for the offending MDVR. • Given these values, in the Dashboard, a blue status is used to indicate MDVR temperatures below the minimum threshold and red status to indicate values above the maximum threshold.
Fleet Dashboard Display Warning - Fleet preference for displaying disabled channels on the Dashboard	
Disabled Analog Channel	<ul style="list-style-type: none"> • Show/Hide Dashboard Camera and Channel warnings indicating that a particular <i>Analog Channel</i> is currently disabled. • In most cases where DVR analog channels are intentionally disabled, showing these warnings may create clutter in the report with little to no benefit. • This setting could be temporarily used to validate the DVR configuration.
Disabled Channel No Camera	<ul style="list-style-type: none"> • Show/Hide Dashboard Camera and Channel warnings indicating that a particular IP Channel is currently disabled with no Camera. • In most cases where DVR IP channels are intentionally disabled, showing these warnings may create clutter in the report with little to no benefit. • This setting could be temporarily used to validate the DVR configuration.
Disabled Channel with Camera	<ul style="list-style-type: none"> • Show/Hide Dashboard Camera and Channel warnings indicating that a particular IP Channel with Camera is currently disabled. • These warnings may be of interest as they identify non-utilized cameras, as well as cameras potentially connected to the wrong MDVR channel.
Password Settings	

Minimum Characters	<ul style="list-style-type: none"> • Sets the minimum number of characters for a password. • Minimum Characters cannot be disabled. • Passwords cannot be empty, passwords with zero characters. • For security reasons, it is generally recommended passwords of at least six characters (system default). For greater security, set the minimum password length to 14 characters.
Expiration Date	<ul style="list-style-type: none"> • Determines how long users can keep a password before they have to change it. • Goal is to force users to change passwords periodically. • This can be set to zero (disabled), though it is not recommended.
Reuse Allowed After	<ul style="list-style-type: none"> • A previously used password cannot be used for the specified number. • For example; if set to 3, a user must cycle through 3 new passwords before they can revert it to the first, • E.G; 1) 123qwe 2) asdzxc 3) thisOne250 start with the process again with 123qwe.
Min L. Case Count	<ul style="list-style-type: none"> • Password must contain a minimum of one lowercase character. • This can be set to zero (disabled), though this is not recommended.
Min U. Case Count	<ul style="list-style-type: none"> • Password must contain at least one uppercase character. • This can be set to zero (disabled), though this is not recommended.
Min. Digits Count	<ul style="list-style-type: none"> • Password must contain at least one digit, i.e., 1-9. • This can be set to zero (disabled), though this is not recommended.
Min. Special Chars	<ul style="list-style-type: none"> • Password must contain at least one special character, e.g., \$,!, %, @, :, <, ^, #, etc. • This can be set to zero (disabled), though this is not recommended.
Max Consecutive Chars	<ul style="list-style-type: none"> • Maximum number for which the alphanumeric character can be consecutive. • Example: If this field is set to 3 then 123; abc; 789, or mno would be rejected as valid passwords.
Max Repeat Chars	<ul style="list-style-type: none"> • Limits the number of repeating characters. • Example: If this field is set to 3 then entries such as 222; myPassword000; 111password or wowwww would be rejected as valid passwords.
Failed Attempts Limit	<ul style="list-style-type: none"> • Limits the number of incorrect passwords which can be entered until the user is locked out of the account.

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Fleet

Fleet Information

G4-Vision Dashboard Inventory Administration Reports Help Logout User: ACME Admin
Fleet: ACME

FLEET SETTINGS

Default Settings **Fleet Info** Depot User Location Analytics

ACME

Primary Contact

Address +

Default Locale

Time Zone

Comments

Save

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Description

This facility is used to set the following fleet-specific information. This information would then be used by Gatekeeper for support, billing and follow-up activities. As well as information such as Default Locale and Time Zone are used as defaults when creating additional items throughout the system.

Primary Contact:

- This is the primary "Business" contact for the Fleet - the person that Gatekeeper will follow up with for support, billing and non-administrative follow-ups.
- If no members are found in the drop-down selection box, then please proceed to create a user with an "Account Prime" role first.

Address:

- This is the primary business address for the fleet - the address to which mail should be forwarded from Gatekeeper.
- If no addresses are defined in the drop-down, then click the "+" button to create a new address.
- *Address Time Zone and Locale do not need to match the Fleet Time Zone and Locale.*

Note:

- All required fields are **highlighted in yellow**.
- Default Time Zone does not need to match the Address Time Zone.

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Fleet Address

The screenshot displays the 'FLEET SETTINGS' interface with a modal window titled 'Address'. The modal contains the following fields:

- Name: (highlighted in yellow)
- Location Type: (highlighted in yellow)
- Time Zone: (highlighted in yellow)
- Address section:
 - Unit:
 - Street:
 - City: (highlighted in yellow)
 - Country: (highlighted in yellow)
 - Province: (highlighted in yellow)
 - Postal Code: (highlighted in yellow)
- Comments:

Buttons for 'Cancel' and 'Save' are located at the bottom right of the modal. The background shows the 'FLEET SETTINGS' sidebar with options like Default Settings, Fleet Info, Depot, User, Location, and Analytics.

Description

This facility enables the creation of a new address without forcing users to have to switch to the Location Management subsystem.

Note:

- Time zone will be used in displaying of date/time values in the Dashboard.
- All required fields are highlighted in yellow.
- Address Name must be unique.

[Back to Fleet Info](#)

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Depot

Depot Management

The screenshot shows the G4-Vision Depot Management interface. The top navigation bar includes 'G4-Vision', 'Dashboard', 'Inventory', 'Administration', 'Reports', 'Help', and 'Logout'. The user is logged in as 'ACME Admin' with the fleet 'ACME'. The sidebar on the left contains buttons for 'Default Settings', 'Fleet Info', 'Depot' (selected), 'User', 'Location', and 'Analytics'. The main content area is titled 'DEPOT' and shows a table with one row: 'ACME Depot' in 'Abbotsford', 'British Columbia', 'Canada', and 'PST'. Above the table, there is a 'Total: 1' label, a 'Sort | Filter' button, and a '+ New Depot' button. A table with 5 columns (Name, City, State / Prov, Country, Time Zone) and 1 row (ACME Depot, Abbotsford, British Columbia, Canada, PST) is shown. A footer contains '© 2019 - Gatekeeper Systems Inc.' and a 'Side Menu' checkbox.

Description

The Depot Management interface displays the list of fleet-defined Depot's per the Sort/Filter settings.

The interface also provides the means by which to create a new Depot's and edit any of the Depot's displayed.

Note: *Only Fleet Administrators are provided with access to this subsystem.*

There are 5 major features on this form to point out, correlated with the picture above:

1. Depot Details / Edit Button: Click to view or edit the specific Depot's details.
2. Depot List Total: Number of Depots in the list based on the Filter applied.
3. Sort/Filter Button: Click to set Sorting and Filtering options for the Depot list.
4. New Depot Button: Click to create a new Depot.
5. The list of Depots displayed, along with each Depot's high-level details.

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New Depot

The screenshot shows the 'NEW DEPOT' form in the G4-Vision system. The form is titled 'NEW DEPOT' and is located in the 'Administration' section of the dashboard. The form includes the following fields:

- Name: [Yellow highlight]
- Time Zone: (UTC-08:00) Pacific Time (US & Can) [Yellow highlight]
- Unit: [Text input]
- Street: [Text input]
- City: [Yellow highlight]
- Country: Canada [Yellow highlight]
- Province: British Columbia [Yellow highlight]
- Postal Code: [Yellow highlight]
- Comments: [Text area]

A 'Create' button is located at the bottom of the form. The footer of the page shows '© 2019 - Gatekeeper Systems Inc.' and a 'Side Menu' icon.

Description

This form is used to define a new Depot for the fleet.

Notes:

- Depot Name must be unique.
- All required fields, **highlighted in yellow**, must be provided.

Fields Definitions:

Field	Description
Depot Name	<ul style="list-style-type: none">• Depot name to be used for this location.
Time Zone	<ul style="list-style-type: none">• Time zone for this location.• Note: Dashboard uses the Depot Time Zone when reporting issue date/times.
Unit	<ul style="list-style-type: none">• Address Unit Number.
Street	<ul style="list-style-type: none">• Address Street.
City	<ul style="list-style-type: none">• Address City.
Country	<ul style="list-style-type: none">• Address Country.• Note: Country must be selected before States or Provinces are displayed.
State / Province	<ul style="list-style-type: none">• Address State/Province.
Postal Code	<ul style="list-style-type: none">• Address Postal or Zip Code.
Comments	<ul style="list-style-type: none">• Add any additional information.

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Edit Depot

G4-Vision Dashboard Inventory Administration Reports Help Logout User: ACME Admin Fleet: ACME

EDIT DEPOT

Default Settings
Fleet Info
Depot
User
Location
Analytics

Name ACME Depot
Time Zone (UTC-08:00) Pacific Time (US & Canc. ▾

Address

Unit
Street
City Abbotsford
Country Canada ▾
Province British Columbia ▾
Postal Code V2T 6H1
Comments

Save

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Description

This form is used to view and edit an existing Depot for the fleet.

Notes:

- Depot Name must be unique/
- All required fields, **highlighted in yellow**, must be provided.

Fields Definitions:

Field	Description
Depot Name	<ul style="list-style-type: none">• Depot name to be used for this location.
Time Zone	<ul style="list-style-type: none">• Time zone for this location.• Note: Dashboard uses the Depot Time Zone when reporting issue date/times.
Unit	<ul style="list-style-type: none">• Address Unit Number.
Street	<ul style="list-style-type: none">• Address Street.
City	<ul style="list-style-type: none">• Address City.
Country	<ul style="list-style-type: none">• Address Country.

	<ul style="list-style-type: none"> Note: Country must be selected before States or Provinces are displayed.
State / Province	<ul style="list-style-type: none"> Address State/Province.
Postal Code	<ul style="list-style-type: none"> Address Postal or Zip Code.
Comments	<ul style="list-style-type: none"> Add any additional information.

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User

User Management

USER MANAGEMENT

Total: 4

	Last Name	First Name	User ID	Location	City	Active
	acme	acme	87	ACME	Abbotsford	Y
	Admin	ACME	ACME Admin	ACME	Abbotsford	Y
	Acme	Vlad	vlad_acme	ACME	Abbotsford	Y

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Description

The User Management interface displays the list of fleet users per the Sort/Filter settings. The interface also provides the means by which to create new users and edit any of the users displayed.

Note: *Non-Administrative users are only capable of viewing and editing their own accounts.*

There are 5 major features on this form to point out, correlated with the picture above:

1. User Details / Edit Button: Click to view or edit the specific User's details
2. User List Total: Number of Users in the list based on the Filter applied
3. The list of Users displayed, along with high-level information for each User
4. Sort/Filter Button: Click to set Sorting and Filtering options for the User list
5. New User Button: Click to create a New User

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New User

- Default Settings
- Fleet Info
- Depot
- User**
- Location
- Analytics

NEW USER

Enabled

First Name

Last Name

Email

Portal Login Information

User ID

Password

Address, Locale and Time Zone Information

Address

Locale

Time Zone

Phone Contact Information

Work Phone

Cell Phone

Other Phone

User Roles

- Administrator
- Depot Prime
- Fleet Prime
- Installer

Comments

Description

This form is used to define a new User for the fleet.

Portal ID's:

- The Portal ID is the unique User-name that the user will provide when logging into the system.
- G4-Vision utilizes the User's e-mail address as the Portal ID for that User. In fact, the system automatically duplicates the e-mail address into the Portal ID field

Passwords:

- Passwords may be left blank. However, doing so will limit User's ability to log into the system.
- Passwords are only checked for correct format if a value is entered into the Password field.

User Roles:

- Multiple User Roles may be selected for a given User.
- Administrative Users will have access to all aspects of the system, including ability to modify Depots, Locations and User data.
- User should be the primary role assigned to most users.
- Depot Prime and Fleet Prime Roles are use to identify respective primes.

Notes:

- Please ensure that the User e-mail and Portal IDs are unique system-wide. The system will check for this.
- Passwords must comply with the Fleet password policy set in [Default Settings](#)
- All required fields, **highlighted in yellow**, must be provided.

Field Definitions:

Field	Description	Required	Max Length
Enabled	<ul style="list-style-type: none">• Determines if the selected user is active or not. Useful for when a User is on vacation, etc. and the account needs to be disabled.		
First Name	<ul style="list-style-type: none">• Enter relevant information here.	Y	45
Last Name	<ul style="list-style-type: none">• Enter relevant information here.	Y	45
e-mail	<ul style="list-style-type: none">• A user's e-mail is used when a user forgets their password. A recovery password will be e-mailed to them.	Y	80

	<ul style="list-style-type: none"> The User's e-mail address is also used as the Portal ID to log into the system. 		
Portal Login Information			
Portal Name	<ul style="list-style-type: none"> This is the Users login name. Maximum length is 80 characters 	Y	80
Password	<ul style="list-style-type: none"> Users' password, maximum length is 15 characters. Please refer to Administration Default Settings the Password Policy details. Password may be left blank. However, if entered, the password must comply with the fleet password policy. 		15
Address, Locale and Time Zone Information			
Address	<ul style="list-style-type: none"> Select from the drop-down menu, or, create new if the address is not listed. 		
Locale	<ul style="list-style-type: none"> Sets the dictionary from where the Vehicle will be reported from. For example, If the vehicle is in the United States, then English, USA should be selected. 		
Time Zone	<ul style="list-style-type: none"> Select the Time Zone for where the user will be based. 		
Phone Contact Information			
Work Phone	<ul style="list-style-type: none"> Enter Relevant Information 		15
Cell Phone	<ul style="list-style-type: none"> Enter Relevant Information 		15
Other Phone	<ul style="list-style-type: none"> Enter Relevant Information 		15
User Roles	<p>Roles serve two purposes:</p> <ol style="list-style-type: none"> Identify the individual's Role in the company. Limit the user's access to the system based on roles <p>Description:</p> <ul style="list-style-type: none"> Administrator: Full system access to manage Resources (MDVR/Vehicle), Users, Locations and Settings. User: Can login and use the Dashboard and manage their own settings and preferences. 	Y	

	<ul style="list-style-type: none"> • Fleet Prime: Primary Contact for the Company. Responsible for Billing, Signatures, etc. • Depot Prime: Primary Contact for the Depot. • Notification: Only users who have Notifications added as a role will be able to receive notifications from G4-Vision when Camera, Storage or Media Analytics issues are identified. Notifications are sent to their registered emails. • Installer: Assigned to identify users responsible for field MDVR and component installations. <p>Note - Any user that needs access to HealthCheck is required to minimally have an Administrator or User Role in their profile. You can also assign multiple roles to a user. To do that,</p> <ol style="list-style-type: none"> 1. Press and hold the CTRL key. 2. Select the Roles that you want to assign to a User. 		
Comments	<ul style="list-style-type: none"> • Enter additional user information here. 		250

[Back to User Management](#)

Edit User

G4-Vision Dashboard Inventory Administration Reports Help Logout User: gsi_super Fleet: GSI Fleet

Default Settings Fleet Info Depot User Location Analytics

EDIT USER

Enabled

First Name

Last Name

Email

Portal Login Information

User ID

Password

Address, Locale and Time Zone Information

Address

Locale

Time Zone

Phone Contact Information

Work Phone

Cell Phone

Other Phone

User Roles

Comments

Created

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Side Menu

Description

This form is used to view and edit existing Users in the fleet.

Portal ID's:

- The Portal ID is the unique User-name that the user will provide when logging into the system.
- G4-Vision utilizes the User's e-mail address as the Portal ID for that User. In fact, the system automatically duplicates thee-mail address into the Portal ID field

Passwords:

- Passwords may be left blank. However, doing so will limit User's ability to log into the system.
- Passwords are only checked for correct format if a value is entered into the Password field.

User Roles:

- Multiple User Roles may be selected for a given User.
- Administrative Users will have access to all aspects of the system, including ability to modify Depots, Locations and User data.
- User should be the primary role assigned to most users.
- Depot Prime and Fleet Prime Roles are used to identify respective primes.

Notes:

- Please ensure that the User e-mail and Portal IDs are unique system-wide. The system will check for this.
- Passwords must comply with the Fleet password policy set in [Default Settings](#)
- All required fields, **highlighted in yellow**, must be provided.

Field Definitions:

Field	Description	Required	Max Length
Enabled	<ul style="list-style-type: none">• Determines if the selected user is active or not. Useful for when a User is on vacation, etc. and the account needs to be disabled.		
First Name	<ul style="list-style-type: none">• Enter relevant information here.	Y	45
Last Name	<ul style="list-style-type: none">• Enter relevant information here.	Y	45
e-mail	<ul style="list-style-type: none">• A user's e-mail is used when a user forgets their password. A recovery password will be e-mailed to them.• The User's e-mail address is also used as the Portal ID to log into the system.	Y	80
Portal Login Information			
Portal Name	<ul style="list-style-type: none">• This is the Users login name. Maximum length is 80 characters	Y	80
Password	<ul style="list-style-type: none">• Users' password, maximum length is 15 characters.• Please refer to Administration Default Settings the Password Policy details.		15

	<ul style="list-style-type: none"> Password may be left blank. However, if entered, the password must comply with the fleet password policy. 		
Address, Locale and Time Zone Information			
Address	<ul style="list-style-type: none"> Select from the drop-down menu, or, create new if the address is not listed 		
Locale	<ul style="list-style-type: none"> Sets the dictionary from where the Vehicle will be reported from. For example, If the vehicle is in the United States, then English, USA should be selected. 		
Time Zone	<ul style="list-style-type: none"> Select the Time Zone for where the user will be based. 		
Phone Contact Information			
Work Phone	<ul style="list-style-type: none"> Enter Relevant Information 		15
Cell Phone	<ul style="list-style-type: none"> Enter Relevant Information 		15
Other Phone	<ul style="list-style-type: none"> Enter Relevant Information 		15
User Roles	<p>Roles serve two purposes:</p> <ol style="list-style-type: none"> Identify the individual's Role in the company. Limit the user's access to the system based on roles <p>Description:</p> <ul style="list-style-type: none"> Administrator: Full system access to manage Resources (MDVR/Vehicle), Users, Locations and Settings. User: Can login and use the Dashboard and manage their own settings and preferences. Fleet Prime: Primary Contact for the Company. Responsible for Billing, Signatures, etc. Depot Prime: Primary Contact for the Depot. Notification: Only users who have Notifications added as a role will be able to receive notifications from G4-Vision when Camera, Storage or Media Analytics issues are identified. Notifications are sent to their registered emails. 	Y	

	<ul style="list-style-type: none"> • Installer: Assigned to identify users responsible for field MDVR and component installations. <p>Note - Any user that needs access to HealthCheck is required to minimally have an Administrator or User Role in their profile. You can also assign multiple roles to a user. To do that,</p> <ol style="list-style-type: none"> 1. Press and hold the CTRL key. 2. Select the Roles that you want to assign to a User. 		
Comments	<ul style="list-style-type: none"> • Enter additional user information here. 		250

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Location

Location Management

LOCATION MANAGEMENT

Total: 3

	Name	Type	City	State/Prov	Country	Time Zone
	ACME	Office	Abbotsford	British Columbia	CA	PST
	ACME Depot	Depot	Abbotsford	British Columbia	CA	PST
	Acme HQ	Office	Abbotsford	British Columbia	CA	PST

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Description

The Location Management interface displays the list of fleet-defined Locations per the Sort/Filter settings.

The interface also provides the links to creating new Locations and editing existing Locations.

Notes:

- Location Delete is only available to Fleet Administrators
- Locations can only be deleted if not in use. For example, if a Location is being used as an active Location for vehicles or as the Primary Address for

the fleet, then that location cannot be deleted.

If any Users, Vehicles, or Fleets are assigned to a Location, then that Location cannot be deleted.

There are 6 major features on this form to point out, correlated with the picture above:

1. Location Details / Edit Button: Click to view or edit the specific Location's details.
2. Location List Total: Number of Locations in the list based on Filter applied.
3. The list of Locations displayed, along with each Location's high-level details.
4. Sort/Filter Button: Click to set Sorting and Filtering options for the Location list.
5. New Location Button: Click to create a New Location.
6. Delete Location Button: Click to delete a Location.

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New Location

G4-Vision Dashboard Inventory Administration Reports Help Logout User: ACME Admin
Fleet: ACME

Default Settings

Fleet Info

Depot

User

Location

Analytics

NEW LOCATION

Name

Location Type

Depot

Time Zone

(UTC-08:00) Pacific Time (US & Can:)

Address

Unit

Street

City

Country

Canada

Province

British Columbia

Postal Code

Comments

Create

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Side Menu

Description

This form is used to define a new Location for the fleet.

Notes:

- Location Name must be unique.
- When defining Depot Location Types, note that the Dashboard uses the Depot Time Zone when reporting issue date/times.
- All required fields, **highlighted in yellow**, must be provided.

Field Definitions:

Field	Description
Depot Name	<ul style="list-style-type: none"> • Depot name to be used for this location
Location Type	<ul style="list-style-type: none"> • Options: Depot; Garage; Home/House; Office; Other and User • Note: Depot option is only available to Fleet Administrators
Time Zone	<ul style="list-style-type: none"> • Time zone for this location • Note: Dashboard uses the Depot Time Zone when reporting issue date/times
Unit	<ul style="list-style-type: none"> • Address Unit Number, e.g., Unit 4A; 90210; Floor 2A, etc.
Street	<ul style="list-style-type: none"> • Address Street
City	<ul style="list-style-type: none"> • Address City
Country	<ul style="list-style-type: none"> • Address Country • Note: Country must be selected before States or Provinces are displayed
State / Province	<ul style="list-style-type: none"> • Address State/Province
Postal Code	<ul style="list-style-type: none"> • Address Postal or Zip Code
Comments	<ul style="list-style-type: none"> • Add any additional information

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Edit Location

The screenshot shows the 'EDIT LOCATION' form. The top navigation bar includes 'G4-Vision', 'Dashboard', 'Inventory', 'Administration', 'Reports', 'Help', and 'Logout'. The user is identified as 'User: ACME Admin' and 'Fleet: ACME'. On the left, a sidebar contains menu items: 'Default Settings', 'Fleet Info', 'Depot', 'User', 'Location' (highlighted), and 'Analytics'. The main form area is titled 'EDIT LOCATION' and contains the following fields:

- Name:** ACME Depot
- Time Zone:** (UTC-08:00) Pacific Time (US & Canada)
- Address:**
 - Unit:** (empty)
 - Street:** (empty)
 - City:** Abbotsford
 - Country:** Canada
 - Province:** British Columbia
 - Postal Code:** V2T 6H1
- Comments:** (empty)

A 'Save' button is located at the bottom of the form. The footer contains '© 2010 - Gatekeeper Systems Inc.' and a 'Side Menu' icon.

Description

This form is used to view and edit an existing Location for the fleet.

Notes:

- Location Name must be unique.
- Ensure that the correct Time Zone is selected as this impacts date/time values in generated and printed reports.
- Location Type is only available to fleet Administrators.
- When defining Depot Location Types, note that the Dashboard uses the Depot Time Zone when reporting issue date/times.
- All required fields, **highlighted in yellow**, must be provided.

Field Definitions:

Field	Description
Depot Name	<ul style="list-style-type: none"> • Depot name to be used for this location.
Location Type	<ul style="list-style-type: none"> • Options: Depot; Garage; Home/House; Office; Other and User. • Only available to Administrators.
Time Zone	<ul style="list-style-type: none"> • Time zone for this location.
Unit	<ul style="list-style-type: none"> • Address Unit Number, e.g., Unit 4A; 90210; Floor 2A, etc.
Street	<ul style="list-style-type: none"> • Address Street.
City	<ul style="list-style-type: none"> • Address City.
Country	<ul style="list-style-type: none"> • Address Country.

	<ul style="list-style-type: none"> Note: Country must be selected before States or Provinces are displayed.
State / Province	<ul style="list-style-type: none"> Address State/Province.
Postal Code	<ul style="list-style-type: none"> Address Postal or Zip Code.
Comments	<ul style="list-style-type: none"> Add any additional information.

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Media Analytics

Media Analytics Settings

G4-Vision Dashboard Inventory Administration Reports Help Logout User: gsi_super
Fleet: GSI Fleet

Default Settings
Fleet Info
Depot
User
Location
Analytics

MEDIA ANALYTICS SETTINGS

Minimum Confidence Analysis: Analysis Min(0%) | Normal Images Min(65%)

FLEET		USER	
Analysis	<input type="text"/>	Analysis	<input type="text"/>
Normal	<input type="text"/>	Normal	<input type="text"/>

Aim Thresholds: (Show Reference Image Warnings)

FLEET		USER	
References	<input type="text"/>	References	<input type="text"/>

Analysis Confidence Bands: Low(0% - 64%) Mid(65% - 79%) High(80% - 100%)

FLEET		USER	
High	<input type="text"/>	High	<input type="text"/>
Medium	<input type="text"/>	Medium	<input type="text"/>
Low	calculated field	Low	calculated field

Save Clear User Settings Clear Fleet Settings

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Description

This form is used to set the defaults in the Media Analytics Settings should the default not serve their purpose (E.G; color bands range preference/aim issues [clients can turn it off]).

Minimum Confidence Analysis: Sets the minimum threshold of the confidence level for the fleet and user. Fleet's column sets for the entire fleet, User's column only sets for the specific user.

- Analysis is for Quality and Signal.
- Normal is for low confidence past specified percentage.

Aim Thresholds: Sets minimum pixel displacement for vertical and horizontal. (User and Fleet).

- Vertical is for vertical pixel displacement limit.

Analysis Confidence Bands: Color codes limits for the percentage (yellow and red)

- High sets the threshold for a high level of confidence.
- Medium sets the threshold for a medium level of confidence.
- Low is calculated automatically.

Save - Save button to save the changes.

Clear User Setting - This button will clear all the filled fields in the user setting section.

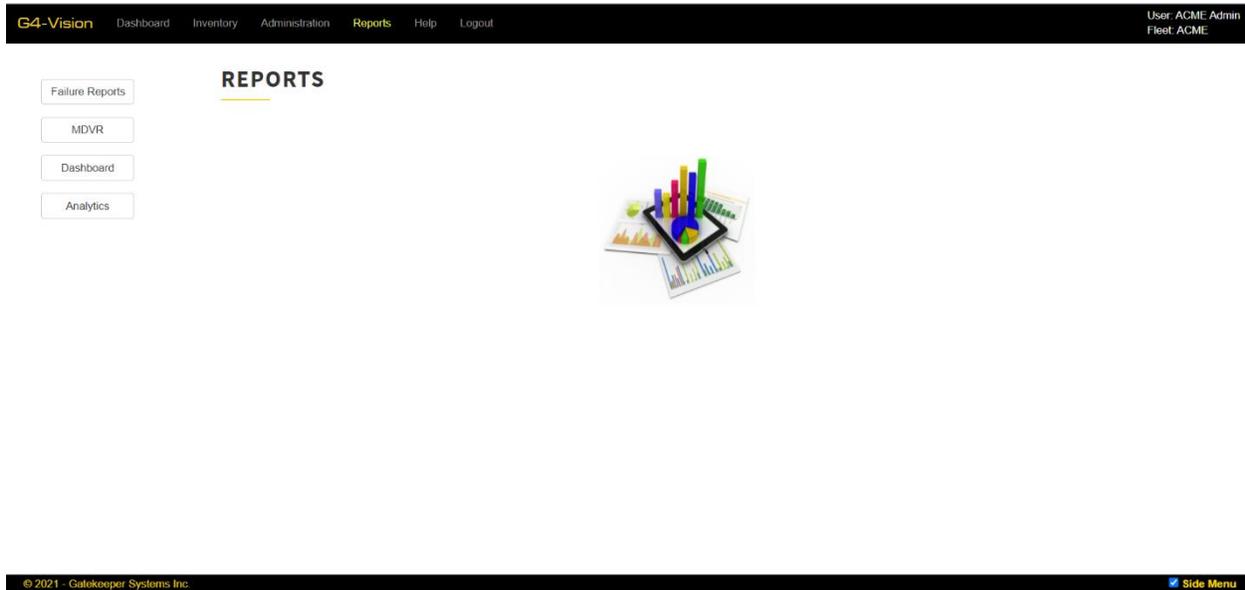
Clear Fleet Setting - This button will clear all the filled fields in the fleet setting section.

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Reports

Main Page



Description

The Reports subsystem provides the facilities to report on a variety of information.

G4-Vision HealthCheck Reporting is a two-step process. First step is to provide the base report parameters. The second step is for the system to provide the report based on the user's parameters.

The G4-Vision reports are designed to be delivered as Web reports. Once the reports have been provided in the Web browser, the user may review them directly in the browser or print a copy for offline viewing.

The following reports are currently available:

Facility	Description	Access
Failure Reports	Report on all failures reported by component type, Depot and Date range	All Users
MDVR Reports	Report on all registered MDVR's or MDVR's by Depot	All Users

Media Analytics Report	Reports on all failures reported by component type of Media-Analytic specific details, Depot and Date range.	All Users
Dashboard Reports	Reports on the reason that vehicles are not being monitored or reports on the vehicles that are disabled but still checking in to their depot. Sorted by Depot.	All Users

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MDVR Failure Reports

Overview and Parameters

The screenshot displays the 'MDVR FAILURE REPORTS' interface. On the left, a sidebar shows 'Failure Reports' as the active section, with sub-options for 'MDVR', 'Dashboard', and 'Analytics'. The main content area is titled 'MDVR FAILURE REPORTS' and contains several filter sections:

- Report Filters:** Includes a 'Depot' dropdown menu set to 'All', and three checkboxes: 'Only Display Failures' (unchecked), 'Only Display Latest Config' (unchecked), and 'Active MDVR's Only' (checked).
- Report Date Range (PST):** Features 'From' and 'To' date pickers. The 'From' date is 'Sep 3, 2021 9:05 AM' and the 'To' date is 'Sep 10, 2021 9:05 AM'.
- Components Failures to Include:** Lists five components with checkboxes: 'Camera' (checked), 'Storage' (checked), 'Voltage' (unchecked), 'Temperature' (unchecked), and 'GPS' (unchecked).

A 'Report' button is located at the bottom center of the filter section. The top navigation bar includes 'G4-Vison', 'Dashboard', 'Inventory', 'Administration', 'Reports', 'Help', and 'Logout'. The user information in the top right corner reads 'User: ACME Admin' and 'Fleet: ACME'.

Description

MDVR Failure Reports is a 5 in 1 facility used to report on all captured states for:

- Cameras,
- Storages,
- Voltage Levels,
- Temperature Levels, and
- GPS

These reports may be filtered as follows:

Filter	Description
Depot	Only report on MDVR's installed on Vehicles of a particular Depot
Only Display Failures	Only report on "Error / Failure" states
Only Display Latest Configuration	If not selected, then report on all captured states during the specified Report Date Range. If selected, it limits the limits the report to the latest configuration of the MDVR as well
Active MDVR's Only	Only report on MDVR's with the Active status and non-expired Service End Date
Report Date Range	Limits MDVR status reports to the specified date range
Components Failures to Include	Components to include in the report. Options are: <ul style="list-style-type: none"> • Cameras, • Storages, • Voltage Levels, • Temperature Levels, and • GPS

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MDVR Failure Reports

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Print

Fleet: ACME
User: ACME Admin

MDVR FAILURE REPORTS

29-May-2019 14:04

DVR: DVR304SD1a / 006001F90B

Vehicle: Bus 1

CAMERA CHANNEL REPORTS

Channel	Config	Camera Type	Status Reported	Date Reported
1	2	Analog SD	Good	24-May-2019 12:15 (PST)
1	1	Analog SD	Good	24-May-2019 10:19 (PST)
2	2	Analog SD	Good	24-May-2019 12:15 (PST)
2	1	Analog SD	Good	24-May-2019 10:19 (PST)
5	1	Digital	Good	24-May-2019 09:28 (PST)
5	1	Digital	Video Loss	24-May-2019 07:52 (PST)
5	1	Digital	Good	23-May-2019 22:29 (PST)

DVR: DVR304SD1a / 006001F90B

Vehicle: Bus 1

STORAGE REPORTS

Drive	Config	Type	Status Reported	Date Reported
1	2	MDVR Storage Not Installed		24-May-2019 10:20 (PST)
2	1	SD Card	Recording	24-May-2019 10:17 (PST)

Description

This report is broken up into the following sections, for each component that a report was asked for:

- Cameras,
- Storages,
- Voltage Level,
- Temperature Levels, and
- GPS

The sorting is based on Configuration and the Drive/Channel index.

Report Time Zones:

- If MDVR's Vehicle is assigned to a Depot: The Depot time zones is used in the reports.
- If MDVR is not assigned to a Vehicle or Depot, then the MDVR time zone is used in the reports.

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MDVR Inventory

Overview and Parameters

The screenshot shows the 'MDVR INVENTORY' report configuration page. At the top, there is a navigation bar with 'G4-Vision' and menu items: Dashboard, Inventory, Administration, Reports, Help, Logout. The user is identified as 'User: ACME Admin' and 'Fleet: ACME'. On the left, there are buttons for 'Failure Reports', 'MDVR' (highlighted), 'Dashboard', and 'Analytics'. The main area is titled 'MDVR INVENTORY' and contains a 'Report Filters' section. Under 'Report Filters', there is a 'Depot' dropdown menu currently set to 'All'. Below it, there is an 'Optional Columns' section with a list of columns: Channels, Storage, Last Update Date, GSI Serial Number, and Comments. A 'Report' button is located at the bottom of the configuration area. At the bottom of the page, there is a footer with '© 2021 - Gatekeeper Systems Inc.' and a 'Side Menu' icon.

Description

Report on the inventory of MDVR's in the Fleet.

There is only one option to choose from this report:

Filter	Description
Depot	Select All MDVR's or limit the report to MDVR's installed on Vehicles of a particular Depot.

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Inventory Report

G4-Vision Dashboard Inventory Administration Reports Help Logout User: ACME Admin Fleet: ACME

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Fleet: ACME
User: ACME Admin

MDVR Inventory Report 12-Jun-2019 14:26

Name	Chipset ID	GSI S/N	Vehicle	Model	HW Version	Cameras	Drives	Last Check-In	Active	Comments
DVR304SD1a	00001FACE		Bus 001	304SD1a Y35		5	1	24-May-2019 15:55	Y	
Bus 1	00300006C		Bus 019	504HD1a		5	2	01-May-2019 09:22	Y	
Bus 4	005001F58			504HD2a Y56		0	1	01-May-2019 09:45	Y	

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Media Analytics Reports

Overview and Parameters

G4-Vision Dashboard Inventory Administration Reports Help Logout User: ACME Admin Fleet: ACME

Failure Reports
MDVR
Dashboard
Analytics

MEDIA ANALYTICS FAILURE REPORTS

Report Filters

Depot: All

Include Normal Results

Latest Analysis Only

Active MDVR's Only

Analysis Report Date Range (PST)

From: Sep 3, 2021 9:23 AM

To: Sep 10, 2021 9:23 AM

Media Analysis Results to Include

Aim

Quality

Signal

Other

Marginal Normal

Report

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Description

Similar to the MDVR Failure Reports, Media Analytics Failure Reports is a 5 in 1 facility used to report on all captured states for Media Analytics-specific details:

- Aim,
- Quality,
- Signal,
- Other, and
- Marginal Normal

These reports may be filtered as follows

Filter	Description
Depot	Only report on MDVR's installed on Vehicles of a particular Depot
Include Normal Results	This includes results from the MDVR Failure Reports
Latest Analysis Only	If not selected, then it will report on all previous analyses If selected, it limits the reports to the latest analysis
Active MDVR's Only	Only report on MDVR's with the Active status and non-expired Service End Date
Report Date Range	Limits Media Analytics Reports to the specified date range
Media Analysis Results to Include	Media Analysis Results to include in the report. Options are: <ul style="list-style-type: none"> • Aim, • Quality, • Signal, • Other, and • Marginal Normal

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Media Analytics Failure Report

G4-Vision
User: ACME Admin
Fleet: ACME

Dashboard
Reports

Fleet: ACME
User: ACME Admin

MEDIA ANALYTICS FAILURE REPORT

12-Jun-2019 14:46
Time Zone: PST

DVR: 008900006C		DVR Name: Bus 1		Vehicle: Bus 1		Analysis Date	Collection Date
CH	CFG	Analysis	%	Details			
1	0	Aim	98.00%	(0.01, 0.03)	01-May-2019 10:30	01-May-2019 09:28	
2	0	Quality	88.00%	-	01-May-2019 10:30	01-May-2019 09:28	
3	0	Quality	100.00%	-	01-May-2019 10:30	01-May-2019 09:24	
4	0	Aim	75.00%	(948.54, -208.50)	01-May-2019 10:30	01-May-2019 09:28	
5	0	Aim	92.00%	(191.94, -193.95)	01-May-2019 10:30	01-May-2019 09:24	

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Description

G4-Vision Media Analytics is able to detect 3 types of image/camera impairments

- Aim,
- Quality,
- and Signal

Details shows what the vector offset of the image is. *(To be improved.)*

The sorting is based on Configuration and the Channel index.

Run by an AI, it gives a confidence level as a percentage, e.g.; if it displays "90%" this means the AI is 90% confident about its analysis of the image's issue. Whereas if it was 50%, it means that the AI is not very confident that there is an actual issue.

Collected Date is when the data is collected from the DVR to the server.

Analysis Date is when the server analyzes the images.

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Dashboard Reports

Overview and Parameters

The screenshot displays the G4-Vision dashboard interface. At the top, a navigation bar includes links for G4-Vision, Dashboard, Inventory, Administration, Reports (highlighted), Help, and Logout. The user is identified as ACME Admin with a Fleet of ACME. On the left, a sidebar contains buttons for Failure Reports, MDVR, Dashboard, and Analytics. The main content area is titled 'DASHBOARD' and features a 'Report Type and Parameters' section. This section includes a 'Report Type' dropdown menu set to 'Dashboard Exclusions Report' and a 'Depot' dropdown menu set to 'All'. A 'Report' button is located below these options. The footer contains the copyright notice '© 2021 - Gatekeeper Systems Inc.' and a 'Side Menu' toggle.

Description

Dashboard Reports is a 2 in 1 system that captures two types of reports about the vehicles in the Fleet:

Report Type	Filter	Description	
Dashboard Exclusion Report	Depot	Reports on which vehicles in the Fleet are not being monitored, and the reason for each vehicle not being monitored (highlighted in yellow). This report can be filtered to a specific depot of the Fleet, or all depots included in the Fleet.	Report
Disabled Vehicle Check-in Report	Depot	Reports the vehicles in the Fleet that are listed as disabled but are still checking in to their assigned depot (highlighted in yellow). This report can be filtered to a specific depot of the Fleet, or all depots in the Fleet.	Report

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Dashboard Exclusion Report

G4-Vision
User: kaiya@chilli.g4v
Fleet: Chilliwack

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Print

DASHBOARD EXCLUSIONS

Fleet: Chilliwack
User: kaiya@chilli.g4v

15-Sep-2021 15:51

DVR Name	DVR Serial	DVR Active	DVR End Service	Vehicle Name	Vehicle Active	Depot Name
BUS021	00850027FB	False		Bus021	True	Chilliwack Depot
304SD1a	006602ACB5	False				
504HD1a	0089001F25	False				
724 Gurgas	008A000153	False		Y724_Gurgas	True	Chilliwack Depot
DVR Y58	00990000DE	False		Y58_Vlad	True	Chilliwack Depot
y35v2	00990029F4	False		Y35v2_Jab	True	Chilliwack Depot
816R	0080000039	False		Y816R-CM	True	Chilliwack Depot
Y58 Susan	0099004EBC	False		Y58_Susan	True	Chilliwack Depot
	0099007619	True				
	009900B452	True				

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Disabled Vehicle Check-in Report

DVR Name	DVR Serial	DVR Active	DVR End Service	Vehicle Name	Vehicle Active	Depot Name	Check-In Date
1005	028000020P	True		1005	False	MPSE	9/10/2021 10:51:39 PM
1006	028000019B	True		1006	False	MPSE	9/10/2021 10:51:39 PM
1140	028000010C	True		1140	False	MPSE	9/10/2021 10:51:39 PM
1006	028000007C	True		1006	False	MPSE	9/10/2021 10:51:39 PM
1181	028000009B	True		1181	False	MPSE	9/10/2021 10:51:39 PM
1103	028000014T	True		1103	False	MPSE	9/10/2021 10:51:39 PM
1188	028000018C	True		1188	False	MPSE	9/10/2021 10:51:39 PM
1182	028000020B	True		1182	False	MPSE	9/10/2021 10:51:39 PM
1030	028000018B	True		1030	False	MPSE	9/10/2021 10:51:39 PM
1182	028000014C	True		1182	False	MPSE	9/10/2021 10:51:39 PM
1074	028000006D	True		1074	False	MPSE	9/10/2021 10:51:39 PM
1104	028000020B	True		1104	False	MPSE	9/10/2021 10:51:39 PM
1182	028000018C	True		1182	False	MPSE	9/10/2021 10:51:39 PM
1186	028000017B	True		1186	False	MPSE	9/10/2021 10:51:39 PM
1119	028000024H	True		1119	False	MPSE	9/10/2021 10:51:39 PM
1071	028000025C	True		1071	False	MPSE	9/10/2021 10:51:39 PM
1178	028000019T	True		1178	False	MPSE	9/10/2021 10:51:39 PM
1180	028000018B	True		1180	False	MPSE	9/10/2021 10:51:39 PM
1120	028000007C	True		1120	False	MPSE	9/10/2021 10:51:39 PM
1211	028000018B	True		1211	False	MPSE	9/10/2021 10:51:39 PM
1181	028000026C	True		1181	False	MPSE	9/10/2021 10:51:39 PM
1207	028000018C	True		1207	False	MPSE	9/10/2021 10:51:39 PM
1088	028000018C	True		1088	False	MPSE	9/10/2021 10:51:39 PM
1096	028000018F	True		1096	False	MPSE	9/10/2021 10:51:39 PM
BU3320	028A00024K	True		BU3320	False	MPSE	9/10/2021 9:40:34 PM
8006	028000018T	True		8006	False	Sullivan Service	9/10/2021 7:26:29 PM
1031	028000008I	True		1031	False	MPSE	9/10/2021 4:27:19 PM
1032	028000008I	True		1032	False	MPSE	9/10/2021 4:28:12 PM
1190	028000003P	True		1190	False	MPSE	9/10/2021 9:00:54 AM
1191	028000003P	True		1191	False	MPSE	9/10/2021 9:00:54 AM
1072	028000022T	True		1072	False	MPSE	9/14/2021 7:26:19 PM
1082	028000008B	True		1082	False	MPSE	9/14/2021 7:26:19 PM
1187	028000018E	True		1187	False	MPSE	9/14/2021 7:26:19 PM
1081	028000009C	True		1081	False	MPSE	9/14/2021 7:26:41 PM
1179	028000015A	True		1179	False	MPSE	9/14/2021 7:26:19 PM
1028	028000017F	True		1028	False	MPSE	9/14/2021 7:26:41 PM
1195	028000020A	True		1195	False	MPSE	9/14/2021 4:40:50 AM
1196	028000020A	True		1196	False	MPSE	9/14/2021 4:40:46 AM
1027	028000003B	True		1027	False	MPSE	9/10/2021 12:32:59 AM
1028	028000011B	True		1028	False	MPSE	9/10/2021 12:32:14 AM

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Glossary

A

AI: Artificial Intelligence

C

CH: Channel. Denotes which Channel (camera) information is being displayed.

Chamber: Chamber is the sensor on the Hard Disk Drive board for MDVR models which are equipped with Hard Dish Drives

CPU: Central Processing Unit. Is the main chip in a computer responsible for carrying out all tasks. It's responsible for telling all the other components what to do.

D

Dashboard: Displays the health of the system in a single snapshot

Depot: A building where vehicles, especially buses, are kept

DVR S/N: The Internal Serial Number of the DVR.

G

GPS: Global Positioning System.

H

Hard Disk Drive: A hard disk drive (HDD) is a data storage device that uses magnetic storage to store and retrieve digital information using one or more rigid rapidly rotating disks coated with magnetic material

I

Inventory: Inventory is the total number of Vehicles and MDVR's in a specific Fleet.

M

MB: Displays the size of the storage medium in Megabytes. e.g., 500040 would = 500GB (Gigabyte)

MDVR: Mobile Digital Video Recorder

Monitored: When a component has been reported as with an error but now reports as functioning as expected, there will be a period of extra monitoring, this will be displayed as Triangle.

R

Reporting Threshold: DVR Reporting Threshold is the maximum days that MDVR can miss the check-in report, or the minimum and maximum values for Temperature and Voltage, going further than the stated threshold the system will generate an error report.

Reports: Gatekeeper's G\$ HealthCheck breaks Reports down into 2 options: Failure Reports (Reports all MDVR's with Failures) and MDVR Reports which reports all active MDVR's

RTC: Real Time Clock. Maintains the system time when there is no direct power applied to the MDVR. RTC modules have a lower power consumption footprint.

S

SD Card: SD; "Secure Digital" It is a type of memory card measuring 24mm wide by 32mm long and is just 2.1mm thick. To give the cards some orientation, the top-right corner of each SD card is slanted.

SDIO: SDIO drives are SD cards currently inserted to the DVR.

SSD: SSDs (Solid State Drive) have no moving mechanical components. Compared to traditional Hard Disk Drives which contain spinning disks and movable read/write

heads. Compared with traditional Hard Disk Drives, SSDs are typically more resistant to physical shock and run silently.

Storage: Storage can be defined as an SD Card; Hard Disk Drive or SSD (Solid State Drive)

U

UTC: Coordinated Universal Time abbreviated to UTC, is the primary time standard by which the world regulates clocks and time. it is within about 1 second of mean solar time at 0° longitude; it does not observe daylight saving time.