

# How do I proactively detect device issues?

Link: <https://help.gpsinsight.com/deep-dive/how-do-i-proactively-detect-device-issues/> Last Updated: September 12th, 2016

## QUESTION:

We just completed implementation, and things are running along smoothly. What advice do you have for issue prevention and detection? I don't want to run a report a year from now and discover too late that one of my devices stopped reporting six months earlier.

Yes! You already have a proactive mindset, so the rest of the process is easy. Once you identify *whom* should be notified of device health and device maintenance issues, the portal can help you do the rest. Here are some recommended approaches that new customers can use for issue prevention and detection.

## Low Battery Detection

A **switch alert** for battery voltage will trigger when voltage on the red wire (constant power) drops below 11.8V for more than 30 minutes. In that case, the vehicle should be started as soon as possible to avoid dead vehicle battery. If an alert is triggered for a vehicle that has only been sitting for a short period of time, there is a good indication the battery in the vehicle is weak, or something else in the vehicle is drawing an excessive amount of power when the vehicles is off.

### ► To set up a Switch Alert for Battery Voltage:

1. From the **Account** menu, click **Manage Alerts**, and then click **Open**.
2. On the Alerts page, click **New Switch Alert** (green plus sign **+**)
3. In the New Alert window, choose the vehicle or group you want to monitor.
4. Modify the **Alert Subject** to "Battery Low."
5. Enter the email address(es) and SMS number(s) of the person(s) who should receive the alert.
6. Choose whether or not to notify the driver with a custom message when the alert is triggered.
7. If available, chose whether or not to have the in-cab notification and the notification type trigger.
8. In the Switch Type area, choose the option for **Battery Voltage**.
9. Set your parameters for Weekdays and Weekends.
10. Set landmark preference parameter.
11. If you would like the alert to send notification once then deactivate, check the box next to this option. We recommend not selecting this option for this type of alert.
12. Leave the defaults set for Repeat Delay, Per-Vehicle Delay, and Active settings.
13. Click **Create New Alert**.

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### New Switch Alert

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#### Create new *Switch-Based Alert*

Vehicle	202 Loop
Alert Subject	BATTERY LOW
Addresses <small>Enter one or more email addresses or SMS numbers</small>	ald@gpsinsight.com
Notify Driver	<input type="checkbox"/> Send with note: <input type="text"/> <small>to <u>current driver</u> or the <u>contact info</u> for the vehicle</small>
In-Cab Notify	<input checked="" type="radio"/> None <input type="radio"/> Buzzer <input type="radio"/> Light <input type="radio"/> In Cab Alert
Switch Type <small>* Only supported on select devices.</small>	<input checked="" type="radio"/> Battery Voltage <input type="radio"/> External Power Lost Alert <small>only for devices with a backup battery</small> <input type="radio"/> Panic Switch <input type="radio"/> Power Cycle <input type="radio"/> Temperature
Weekdays	Sun M T W Th F Sat <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="radio"/> All Day <input type="radio"/> Off <input type="radio"/> Odd Hours
Weekends	Sun M T W Th F Sat <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="radio"/> All Day <input type="radio"/> Off <input type="radio"/> Odd Hours
Landmark	<input type="radio"/> Inside <input type="radio"/> Outside <input checked="" type="radio"/> N/A
One Time	<input type="checkbox"/> Alert one time then deactivate
Repeat Delay	2 <small>Minimum minutes between alerts</small>
Per-Vehicle Delay	20 <small>Minimum for alerts on same vehicle</small>
Active	<input checked="" type="radio"/> yes <input type="radio"/> no <input type="radio"/> apply date range
<b>Create New Alert</b>	

Add or edit this alert. **close**

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**Note.** You can also investigate low battery issues per vehicle in the **Activity Detail Report** using the Voltage column. For example, you may notice that a vehicle continues to trigger the battery voltage. The report can show whether that vehicle is frequently left parked for extended periods of time.

If your device includes a backup battery, the switch alert for external power lost will trigger when the tracking device goes from receiving power via the red wire (constant power) to receiving power via the internal device battery. This event may occur when a vehicle has a dead battery or when a device has been removed (possible tampering).

## ► To set up a Switch Alert for External Power Lost:

1. From the **Account** menu, click **Manage Alerts**, and then click **Open**.
2. On the Alerts page, click **New Switch Alert** (green plus sign )
3. In the New Alert window, choose the vehicle or group you want to monitor.
4. Modify the **Alert Subject** to “External Power Lost.”
5. Enter the email address(es) and SMS number(s) of the person(s) who should receive the alert.
6. Choose whether or not to notify the driver with a custom message when the alert is triggered.
7. In the Switch Type area, choose the option for **External Power Lost**.
8. Set your parameters for Weekdays and Weekends.
9. Set landmark preference parameter.
10. If you would like the alert to send notification once then deactivate, check the box next to this option. We recommend not selecting this option for this type of alert.
11. Leave the defaults set for Repeat Delay, Per-Vehicle Delay, and Active settings.
12. Click **Create New Alert**.

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### New Switch Alert

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#### Create new *Switch-Based Alert*

**Vehicle** 202 Loop ▼

**Alert Subject** EXTERNAL POWER LOST|

**Addresses**  
*Enter one or more email addresses or SMS numbers*  
ald@gpsinsight.com

**Notify Driver**  Send with note:   
*to current driver or the contact info for the vehicle*

**In-Cab Notify**  None  Buzzer  Light  In Cab Alert

**Switch Type**  
*\* Only supported on select devices.*  
 Battery Voltage  
 External Power Lost Alert only for devices with a backup battery  
 Panic Switch  
 Power Cycle  
 Temperature

**Weekdays**  
Sun M T W Th F Sat  
        
 All Day  Off  Odd Hours

**Weekends**  
Sun M T W Th F Sat  
        
 All Day  Off  Odd Hours

**Landmark**  Inside  Outside  N/A

**One Time**  Alert one time then deactivate

**Repeat Delay** 2 *Minimum minutes between alerts*

**Per-Vehicle Delay** 20 *Minimum for alerts on same vehicle*

**Active**  yes  no  apply date range

**Create New Alert**

*Add or edit this alert.* **close**

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## Performance Check

The Performance Report shows how long vehicles have been stopped the last time the device reported. To proactively monitor devices, schedule this report daily or weekly and sort by “Days Stopped” and “Last Reported” to quickly identify vehicles that need attention.

### ► To schedule a Performance Report:

1. From the **Account** menu, click **Manage Reports**, and click **Open**.

The Scheduled Reports page opens in a new browser tab.

1. From the Report List grid, click **New Scheduled Report** (green plus sign ) next to the **Performance Report**.



**Note.** You can also invoke a new scheduled report from within an existing report window (“Schedule This” button).

1. In the Setup Scheduled Report window, choose the vehicle, group, or hierarchy you want to include in the report.
2. Modify the **Schedule** (frequency) to “Daily” or “Weekly.”
3. Modify the **Email Subject** as needed.
4. Enter the email address(es) of the person(s) who should receive the report.
5. Choose to add Stop Duration, Non-Reporting, or Voltage Below parameters. If you choose one of these items, only the vehicles that match the criteria will be included in the report. If you choose MORE than one of these options, the system treats them as “AND” operators. In the example below, we chose two options (i.e., stopped for five days AND non-reporting for two days), which means both of those requirements must be true for a vehicle to be included in the report.

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### Performance Report

*Most recently reported data from each vehicle.*

Vehicle	ALL VEHICLES ▼
Schedule	Weekly ▼
Email Subject	Performance Report <small>Email subject (i.e 'Weekly Speeding Report')</small>
Addresses	fleetmanager@xyz.demo <small>Enter one or more email addresses</small>
Stop Duration	5 days ▼
Non-Reporting	2 days ▼
Voltage Below	not selected ▼
Sort By	Reported ▼
Attributes	Accessories Bay Type CDL Endorse Req Delivery Zone
Diagnostics	No diagnostics available
Active	<input checked="" type="radio"/> Yes <input type="radio"/> No
<b>Schedule Report</b>	

1. Choose your sort preference for how you want data to be grouped in the report. We chose “Reported.”
2. Leave the defaults selected for Email Body, Attachments, and Active settings.
3. Click **Schedule Report**.

When the report is delivered, you can immediately identify any vehicle that has not reported for a number of days and further investigate the cause. Click the last reported time to open the vehicle’s Activity Detail report:

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### Performance Report »

Vehicle	Ignition	Voltage	Reported	Stopped	Location	Hierarchy Node
AL Dodge 3900i	Off	no data	2 hours ago	2 hours ago	Anthem LLC	Phoenix
AL Liberty	Off	12.3v	2 hours ago	2 hours ago	Headquarters	Globe
APH PNP	Off	13.0v	86 minutes ago	86 minutes ago	Test ABC	Williamson

Use the Activity Detail report to see an overview of each update for a selected vehicle. It includes a Voltage column so you can see the battery level at each report point to help identify vehicles with battery issues. You can see the longer a vehicle is parked without running, the lower the battery level drops. This report is also useful should you need to do troubleshooting; it's a first step your team can use before calling [Support](#).

### Activity Detail Report »

Selected Vehicle: 50

Thursday, September 24, 2015									
Time	Driver	Ignition	Max Speed	Avg Speed	Distance	Odometer	Voltage	Run Time	
5:00:01 AM	not set		0 mph	0 mph	0.0 mi.	114,488.5	11.9v	3.3 hrs	
Friday, September 25, 2015									
Time	Driver	Ignition	Max Speed	Avg Speed	Distance	Odometer	Voltage	Run Time	
5:00:01 AM	not set		0 mph	0 mph	0.0 mi.	114,488.5	11.9v	3.3 hrs	
Saturday, September 26, 2015									
Time	Driver	Ignition	Max Speed	Avg Speed	Distance	Odometer	Voltage	Run Time	
5:00:01 AM	not set		0 mph	0 mph	0.0 mi.	114,488.5	11.9v	3.3 hrs	
Sunday, September 27, 2015									
Time	Driver	Ignition	Max Speed	Avg Speed	Distance	Odometer	Voltage	Run Time	
5:00:01 AM	not set		0 mph	0 mph	0.0 mi.	114,488.5	11.9v	3.3 hrs	
Monday, September 28, 2015									
Time	Driver	Ignition	Max Speed	Avg Speed	Distance	Odometer	Voltage	Run Time	
5:00:01 AM	not set		0 mph	0 mph	0.0 mi.	114,488.5	11.8v	3.3 hrs	

More reference materials:

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- Location of your car or truck incorrect on the map? Check out [How Accurate is GPS Technology?](#)
- Out of drive time? View [Beginning Your Shift](#).
- Drive time not showing on the logs? Check out [Exploring the Driver Portal](#).