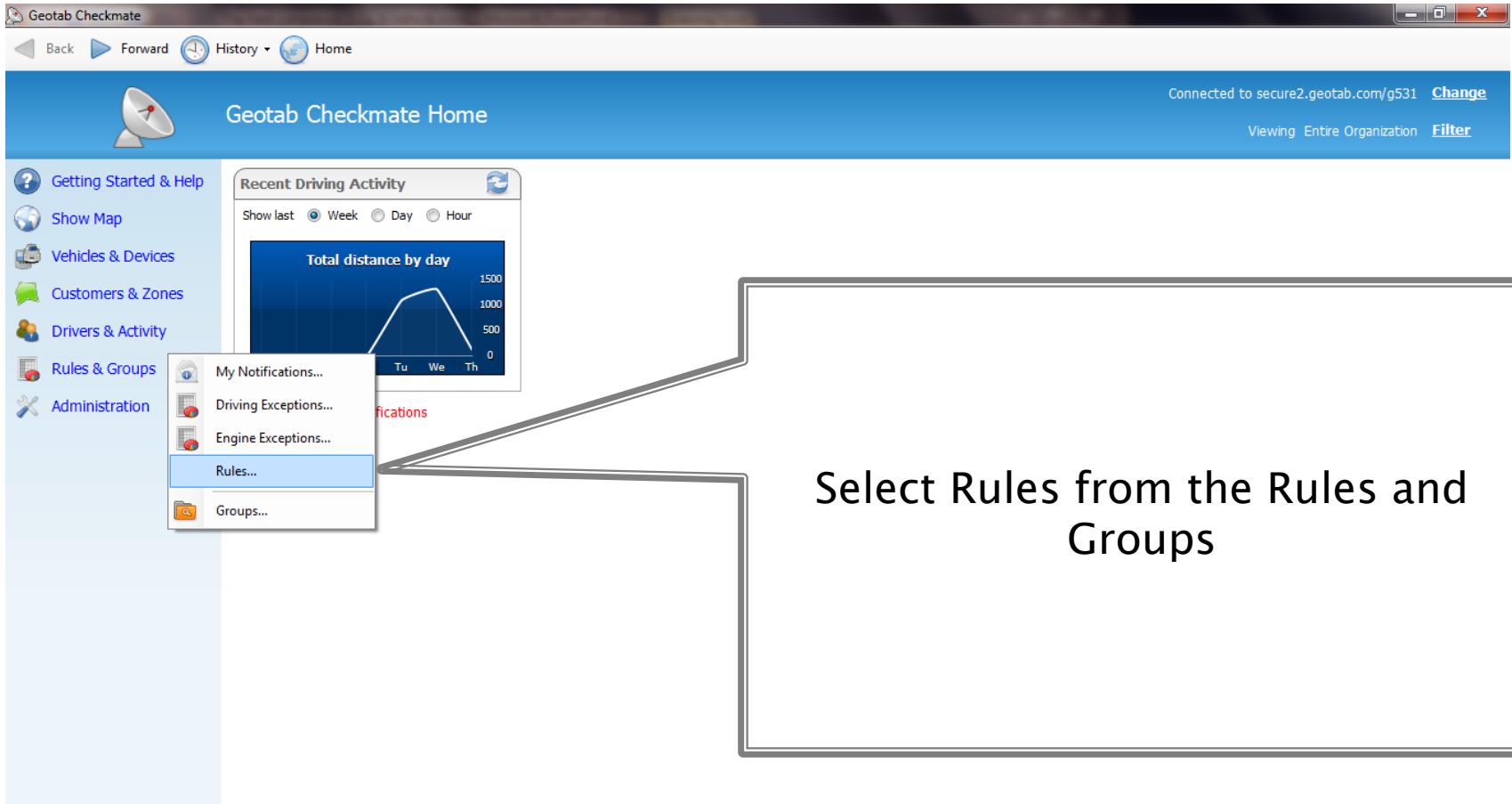


Exception Rules



The screenshot shows the Geotab Checkmate web application interface. The browser window title is "Geotab Checkmate". The page header includes navigation links for "Back", "Forward", "History", and "Home". The main header displays "Geotab Checkmate Home" and a connection status: "Connected to secure2.geotab.com/g531". A sidebar on the left contains navigation items: "Getting Started & Help", "Show Map", "Vehicles & Devices", "Customers & Zones", "Drivers & Activity", "Rules & Groups", and "Administration". The "Rules & Groups" item is selected, opening a dropdown menu with options: "My Notifications...", "Driving Exceptions...", "Engine Exceptions...", "Rules...", and "Groups...". The "Rules..." option is highlighted. In the background, a "Recent Driving Activity" widget shows a line graph titled "Total distance by day" with data points for Tuesday, Wednesday, and Thursday. A callout box with a double-line border points to the "Rules..." menu item and contains the text "Select Rules from the Rules and Groups".

Geotab Checkmate Home

Connected to secure2.geotab.com/g531 [Change](#)

Viewing Entire Organization [Filter](#)

Getting Started & Help

Show Map

Vehicles & Devices

Customers & Zones

Drivers & Activity

Rules & Groups

Administration

My Notifications...

Driving Exceptions...

Engine Exceptions...

Rules...

Groups...

Recent Driving Activity

Show last Week Day Hour

Total distance by day

Day	Total distance
Tu	~1000
We	~1500
Th	~500

Select Rules from the Rules and Groups

Name the Rule

Exception Editor

Overview
Use this wizard to setup rules you wish to use in your organisation to monitor activities. All violations of these rules will be available for viewing on a map or for seeing in reports.

What name do you wish to give to this exception rule?
RPM alerts

How should the exception appear on the map?
 Invisible
Color Transparency

Create a name for your rule

< Back Next > Cancel

Select Rule Type

Exception Editor

Step 2
Please choose the type of Exception Rule you would like to create

What type of exception is this?

Driving Exception

Engine Measurement Exception

Engine Fault Exception

Rules can be based on
Driving Behaviour
Engine Thresholds
Engine Faults

< Back Next > Cancel

Select Measured Value

Exception Editor

Step 3
Please specify the engine measurements and performance metrics to monitor.

Rule is broken when **OBD: 12 - Engine RPM**

logs a value between
J1939: 647 - **Unknown Spn 647
J1939: 2003 - Allison DTCs Unknown General Transmission Fault
J1939: 6918 - **Unknown Diagnostic 6918

and

All conditions have

longer than

less than

OBD: 12 - Engine RPM

OBD: 13 - Vehicle speed
OBD: 14 - **Unknown Diagnostic 14
OBD: 15 - Intake air temperature
OBD: 16 - MAF air flow rate
OBD: 17 - Throttle position
OBD: 21 - **Unknown Diagnostic 21
OBD: 22 - **Unknown Diagnostic 22
OBD: 23 - **Unknown Diagnostic 23
OBD: 24 - **Unknown Diagnostic 24
OBD: 25 - **Unknown Diagnostic 25
OBD: 31 - Run time since engine start
OBD: 32 - **Unknown Diagnostic 32
OBD: 33 - Distance traveled with MIL on
OBD: 34 - **Unknown Diagnostic 34
OBD: 44 - **Unknown Diagnostic 44
OBD: 45 - **Unknown Diagnostic 45
OBD: 47 - Fuel Level Input
OBD: 49 - Distance traveled since codes cleared
OBD: 51 - Barometric pressure
OBD: 58 - HO2S Heater Control Circuit High (Bank 2 Sensor 2)
OBD: 66 - Control module voltage

CAUTION: Only values shown in the Engine Status Data can have a Engine Management rule written

< Back Next > Cancel

Set the Criteria

Exception Editor

Step 3
Please specify the engine measurements and performance metrics to monitor.

Rule is broken when OBD: 12 - Engine RPM

logs a value between 3500

and 12000

All conditions have to be continuously met for:

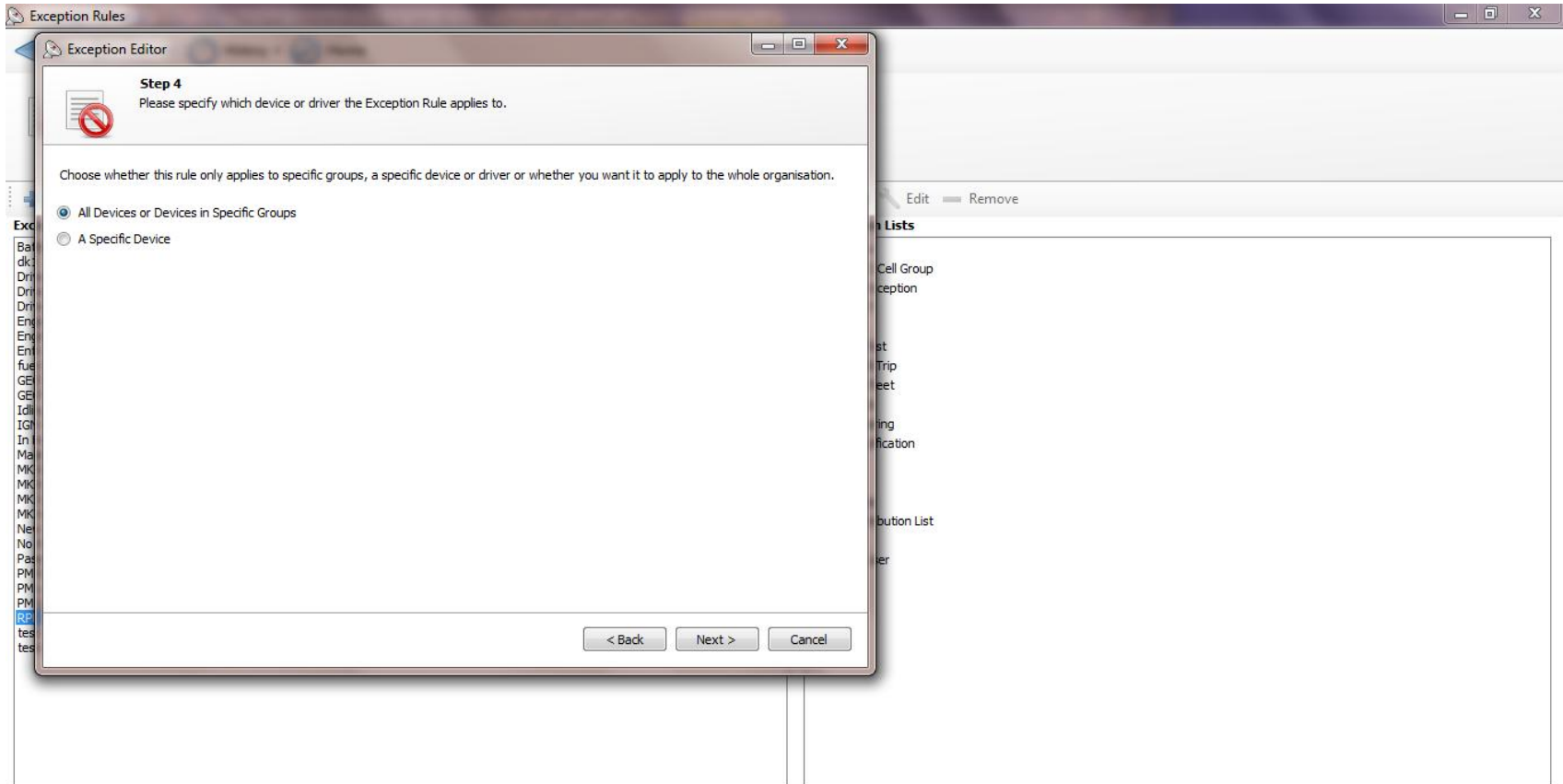
longer than 2 seconds

less than

Use Min and Max Values and duration to filter out false positives

< Back Next > Cancel

Select Vehicles



[Recalculate Data](#)

[Alarm Sounds](#)

Selected Vehicles

Exception Editor

Step 5
Please select the Group this rule applies to

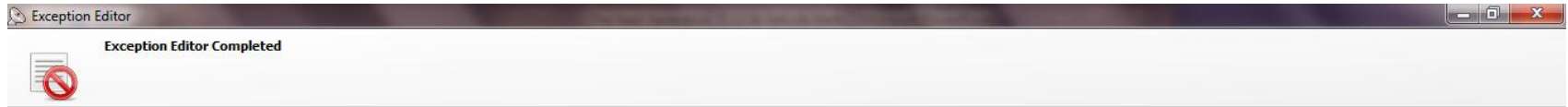
+ Add - Remove Reset

Group

- GO+V2

< Back Next > Cancel

Rule Summary

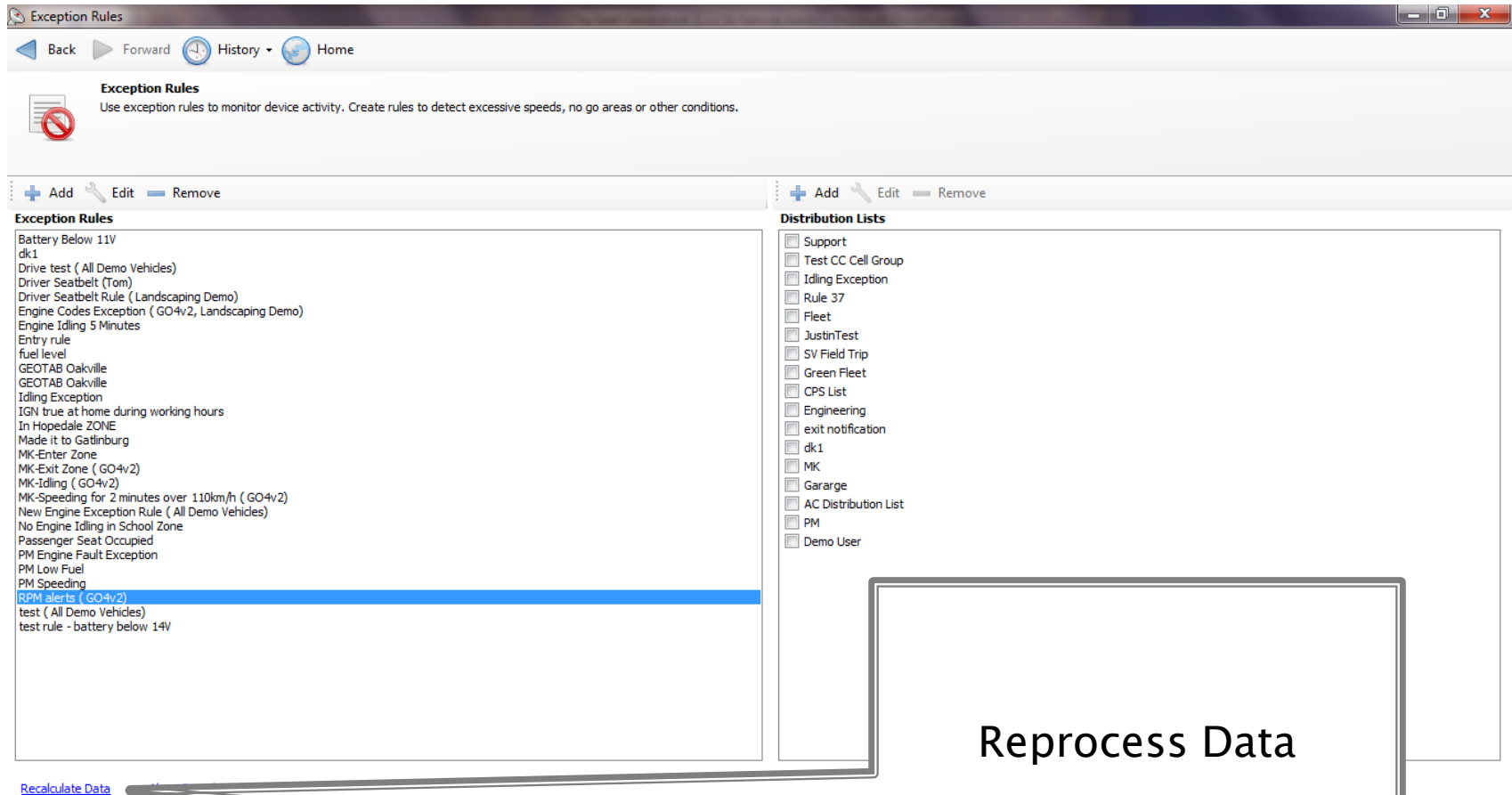


In order to see this rule take effect on existing data, you must update the data for this rule. All new data will be processed automatically. Click Finish to save this rule now.

The Rule is:
RPM alerts: Engine RPM > 3500 And Engine RPM < 12000 And Duration > 2.

< Back Finish Cancel

Check for Historic Exceptions



The screenshot shows a web application window titled "Exception Rules". At the top, there is a navigation bar with "Back", "Forward", "History", and "Home" buttons. Below this is a header section with a "no" symbol and the text "Exception Rules" and "Use exception rules to monitor device activity. Create rules to detect excessive speeds, no go areas or other conditions." Below the header are two main panels. The left panel, titled "Exception Rules", contains a list of rules with "RPM alerts (GO4v2)" highlighted in blue. The right panel, titled "Distribution Lists", contains a list of distribution lists with checkboxes next to each item. At the bottom left, there is a "Recalculate Data" link. A large callout box with the text "Reprocess Data" is positioned on the right side of the interface, with lines pointing to the "Recalculate Data" link and the "Distribution Lists" panel.

Exception Rules
Use exception rules to monitor device activity. Create rules to detect excessive speeds, no go areas or other conditions.

Exception Rules

- Battery Below 11V
- dk1
- Drive test (All Demo Vehicles)
- Driver Seatbelt (Tom)
- Driver Seatbelt Rule (Landscaping Demo)
- Engine Codes Exception (GO4v2, Landscaping Demo)
- Engine Idling 5 Minutes
- Entry rule
- fuel level
- GEOTAB Oakville
- GEOTAB Oakville
- Idling Exception
- IGN true at home during working hours
- In Hopedale ZONE
- Made it to Gatlinburg
- MK-Enter Zone
- MK-Exit Zone (GO4v2)
- MK-Idling (GO4v2)
- MK-Speeding for 2 minutes over 110km/h (GO4v2)
- New Engine Exception Rule (All Demo Vehicles)
- No Engine Idling in School Zone
- Passenger Seat Occupied
- PM Engine Fault Exception
- PM Low Fuel
- PM Speeding
- RPM alerts (GO4v2)**
- test (All Demo Vehicles)
- test rule - battery below 14v

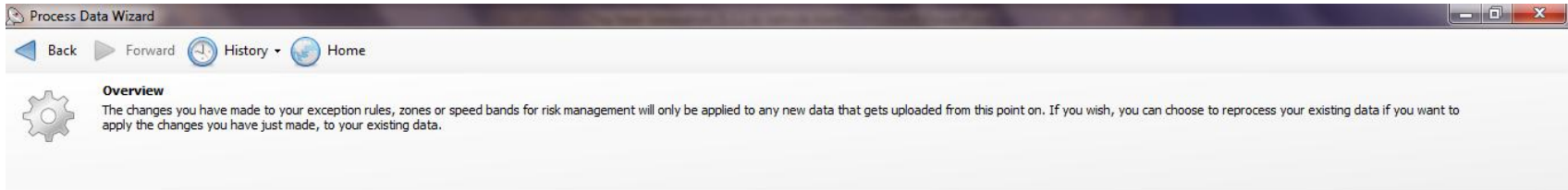
Distribution Lists

- Support
- Test CC Cell Group
- Idling Exception
- Rule 37
- Fleet
- JustinTest
- SV Field Trip
- Green Fleet
- CPS List
- Engineering
- exit notification
- dk1
- MK
- Garage
- AC Distribution List
- PM
- Demo User

[Recalculate Data](#)

Reprocess Data

Select Rule Process Option



Process Data Wizard

Back Forward History Home

Overview
The changes you have made to your exception rules, zones or speed bands for risk management will only be applied to any new data that gets uploaded from this point on. If you wish, you can choose to reprocess your existing data if you want to apply the changes you have just made, to your existing data.

Please choose one of the following options:

- Apply the changes to exception rule or Zone only to new trips or engine data.
- Apply the changes to historic trips or engine data.
- Do not recalculate trips (recommended) [When to use this option](#)

Most rules don't need
trips reprocessed

< Back Next > Cancel

Select Date Range

Process Data Wizard

Back Forward History Home

Select Date Range

Please select the date range that must be used to process data. This can be used to limit the amount of data that must be processed. It allows you to provide a starting date for the changes you've made.

From which date would you like to apply the changes?

Apply the changes to data starting on this date:
Thursday , September 17, 2009

Do not limit my changes by date
Warning: Choosing this option could significantly increase the amount processing time

< Back Next > Cancel

Select Devices to Reprocess

Process Data Wizard

Back Forward History Home

Select Devices
Please select the devices that the change will apply to. This can be used to limit the amount of data that must be processed. Skip this step to apply to all devices.

+ Add - Remove

Device

Skip this step to select all

< Back Next > Cancel

Select Rules to be Reprocessed

Process Data Wizard

Back Forward History Home

Select Exception Rules and Customer Stops
The changes you have made to your exception rules, zones or speed bands for risk management will only be applied to any new data that gets uploaded from this point on. If you wish, you can choose to reprocess your existing data if you want to apply the changes you have just made, to your existing data.

Reprocess all Exception Rules and Customer Stops
 Reprocess only for the following Exception Rules and Customer Stops:

Exception Rules

Exception Rule
<input type="checkbox"/> Engine Idling 5 Minutes
<input type="checkbox"/> Entry rule
<input type="checkbox"/> fuel level
<input type="checkbox"/> GEOTAB Oakville
<input type="checkbox"/> GEOTAB Oakville
<input type="checkbox"/> Idling Exception
<input type="checkbox"/> IGN true at home during working hours
<input type="checkbox"/> In Hopedale ZONE
<input type="checkbox"/> Made it to Gatinburg
<input type="checkbox"/> MK-Enter Zone
<input type="checkbox"/> MK-Exit Zone
<input type="checkbox"/> MK-Idling
<input type="checkbox"/> MK-Speeding for 2 minutes over 110km/h
<input type="checkbox"/> New Engine Exception Rule
<input type="checkbox"/> No Engine Idling in School Zone
<input type="checkbox"/> Passenger Seat Occupied
<input type="checkbox"/> PM Engine Fault Exception
<input type="checkbox"/> PM Low Fuel
<input type="checkbox"/> PM Speeding
<input checked="" type="checkbox"/> RPM alerts
<input type="checkbox"/> test
<input type="checkbox"/> test rule - battery below 14V

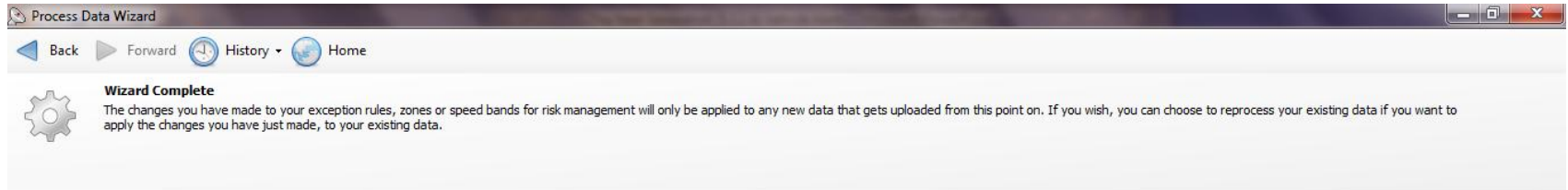
+ Add - Remove

Customer Stops

Zone


< Back Next > Cancel

System has enough to Process



Process Data Wizard

Back Forward History Home

 **Wizard Complete**
The changes you have made to your exception rules, zones or speed bands for risk management will only be applied to any new data that gets uploaded from this point on. If you wish, you can choose to reprocess your existing data if you want to apply the changes you have just made, to your existing data.

The system has enough information and will register your selections for processing. Please click Finish to continue or click Back to make any changes.

< Back Finish Cancel

Exception Reports

The screenshot shows the Geotab Checkmate web application interface. The browser window title is "Geotab Checkmate". The page header includes "Geotab Checkmate Home" and "Connected to secure2.geotab.com/g531". The left sidebar contains a navigation menu with items: "Getting Started & Help", "Show Map", "Vehicles & Devices", "Customers & Zones", "Drivers & Activity", "Rules & Groups", and "Administration". The main content area features a "Recent Driving Activity" widget with a line graph titled "Total distance by day". A dropdown menu is open over the "Administration" item, listing "My Notifications...", "Driving Exceptions...", "Engine Exceptions...", "Rules...", and "Groups...". A callout box points to the "Driving Exceptions..." option.

Select Driving Exception or Engine Exceptions for reporting

Select Vehicles

The screenshot shows a web browser window titled "Exceptions". The browser's address bar contains navigation buttons for "Back", "Forward", "History", and "Home". Below the address bar, there are tabs for "Options Panel", "View in Excel", "Reports", and "View in Map".

The main content area is divided into two panels. On the left is a "Basic" panel with the following elements:

- A "Device" dropdown menu.
- A text input field containing "sv".
- A checked checkbox labeled "Select All/None".
- A list of three checked items: "SV41-1", "SV41-2", and "SV41-3".
- An unchecked checkbox labeled "Show Inactive".
- A "Period:" dropdown menu set to "Yesterday".
- Two buttons at the bottom: "Show Summary" and "Show Detail".

On the right is a "Help Panel" with the text "Viewing exceptions in the map" and a "Hide" link.

Select Rules to Report

The screenshot shows a web browser window titled "Exceptions". The browser's address bar contains "Options Panel", "View in Excel", "Reports", and "View in Map". The main content area is divided into two sections: "Basic" and "Options".

The "Basic" section is titled "Select Exception Rules" and features a dropdown menu currently set to "Custom Rules". Below the dropdown is a list of rules, each with a checkbox. The "Idling Exception" rule is selected. At the bottom of this section are two buttons: "Show Summary" and "Show Detail".

The "Options" section is currently empty. To the right of the main content area is a "Help Panel" with the text "Viewing exceptions in the map" and a "Hide" link.

Select Exception Rules

Custom Rules [All] [None]

- Select All Rules
- All Exception Rules
- Custom Rules (hides)
- System Rules

- Driver Seatbelt Rule (Landscaping Demo)
- Engine Idling 5 Minutes
- Entry rule
- GEOTAB Oakville
- GEOTAB Oakville
- Idling Exception
- IGN true at home during working hours
- In Hopedale ZONE
- Made it to Gatlinburg
- MK-Enter Zone
- MK-Exit Zone (GO4v2)
- MK-Idling (GO4v2)
- MK-Speeding for 2 minutes over 110km/h (G
- No Engine Idling in School Zone
- Passenger Seat Occupied
- PM Speeding
- test (All Demo Vehides)

Show Summary

Show Detail

Help Panel

[Viewing exceptions in the map](#) [Hide](#)

Daily Exception Report by Asset

Device	Driver	Exception Rule	Location	Start Time	Duration(min)	Distance	Details
SV41-1							
SV41-1	No Driver Key Used	MK-Idling	Golfway Blvd, Orlando, FL, 32828	9/23/2009 6:40:48 AM	2m	0	Driving slower than 3 mph; Ignition On; All conditions met for longer than 00:02:00 (Max Speed: 74.6 mph)
SV41-1	No Driver Key Used	MK-Idling	S Avalon Park Blvd, Orlando, FL, 32828	9/23/2009 6:51:16 AM	1m	0	Driving slower than 3 mph; Ignition On; All conditions met for longer than 00:02:00 (Max Speed: 74.6 mph)
SV41-1	No Driver Key Used	MK-Idling	9428 Lake Underhill Rd, Orlando, FL, 32825	9/23/2009 4:36:29 PM	1m	0	Driving slower than 3 mph; Ignition On; All conditions met for longer than 00:02:00 (Max Speed: 74.6 mph)
SV41-1	No Driver Key Used	MK-Idling	9952 Berry Dease Rd, Orlando, FL, 32825	9/23/2009 4:40:50 PM	1m	0	Driving slower than 3 mph; Ignition On; All conditions met for longer than 00:02:00 (Max Speed: 74.6 mph)
SV41-1	No Driver Key Used	MK-Exit Zone	9948 Berry Dease Rd, Orlando, FL, 32825	9/23/2009 7:35:16 PM	11h 22m	24	Outside
SV41-1	No Driver Key Used	Engine Idling 5 Minutes	Test zone: 1640 S Avalon Park Blvd, Orlando, FL, 32828	9/23/2009 7:56:13 PM	6m	0	Driving slower than 2 mph; Ignition On; All conditions met for longer than 00:02:00 (Max Speed: 74.6 mph)
SV41-1	No Driver Key Used	Idling Exception	Test zone: 1640 S Avalon Park Blvd, Orlando, FL, 32828	9/23/2009 7:56:13 PM	6m	0	Driving slower than 2 mph; Ignition On; All conditions met for longer than 00:02:00 (Max Speed: 74.6 mph)
SV41-1	No Driver Key Used	MK-Idling	Test zone: 1640 S Avalon Park Blvd, Orlando, FL, 32828	9/23/2009 7:56:13 PM	6m	0	Driving slower than 3 mph; Ignition On; All conditions met for longer than 00:02:00 (Max Speed: 74.6 mph)
					11h 46m	24	
SV41-2							
SV41-2	No Driver Key Used	MK-Exit Zone	Sv Home: 13871 Waterhouse Way, Orlando, FL, 32828	8/19/2009 5:50:55 PM	35d 13h 42m	1,496	Outside
SV41-2	No Driver Key Used	MK-Idling	12361 Lake Underhill Rd, Orlando, FL, 32828	9/23/2009 7:14:03 AM	1m	0	Driving slower than 3 mph; Ignition On; All conditions met for longer than 00:02:00 (Max Speed: 74.6 mph)
SV41-2	No Driver Key Used	MK-Idling	12253 Lake Underhill Rd, Orlando, FL, 32825-5010	9/23/2009 7:19:24 AM	1m	0	Driving slower than 3 mph; Ignition On; All conditions met for longer than 00:02:00 (Max Speed: 74.6 mph)
SV41-2	No Driver Key Used	test	SR-417, Orlando, FL, 32825	9/23/2009 7:27:59 AM	8m	11	Driving faster than 62 mph (Max Speed: 74.6 mph)
SV41-2	No Driver Key Used	MK-Speeding for 2 minutes over 110km/h	SR-417, Orlando, FL, 32829	9/23/2009 7:31:19 AM	2m	4	Driving faster than 68 mph; All conditions met for longer than 00:02:00 (Max Speed: 74.6 mph)
SV41-2	No Driver Key Used	MK-Idling		9/23/2009 7:47:43 AM	1m	0	Driving slower than 3 mph; Ignition On; All conditions met for longer than 00:02:00 (Max Speed: 74.6 mph)
SV41-2	No Driver Key Used	MK-Idling		9/23/2009 3:48:00 PM	3m	0	Driving slower than 3 mph; Ignition On; All conditions met for longer than 00:02:00 (Max Speed: 74.6 mph)
SV41-2	No Driver Key Used	test	Central Florida Greeneway, Orlando, FL, 32832	9/23/2009 4:03:18 PM	6m	8	Driving faster than 62 mph (Max Speed: 76.4 mph)
SV41-2	No Driver Key Used	MK-Speeding for 2 minutes over 110km/h	SR-417, Orlando, FL, 32832	9/23/2009 4:04:19 PM	4m	6	Driving faster than 68 mph; All conditions met for longer than 00:02:00 (Max Speed: 76.4 mph)
					35d 14h 12m	1,525	
SV41-3							
SV41-3	No Driver Key Used	Engine Idling 5 Minutes	Customer A: 415 Woodbury Rd, Orlando, FL, 32828-7101	9/23/2009 4:56:14 PM	5m	0	Driving slower than 2 mph; Ignition On; All conditions met for longer than 00:02:00 (Max Speed: 74.6 mph)
SV41-3	No Driver Key Used	Idling Exception	Customer A: 415 Woodbury Rd, Orlando, FL, 32828-7101	9/23/2009 4:56:14 PM	5m	0	Driving slower than 2 mph; Ignition On; All conditions met for longer than 00:02:00 (Max Speed: 74.6 mph)
SV41-3	No Driver Key Used	MK-Idling	Customer A: 415 Woodbury Rd, Orlando, FL, 32828-7101	9/23/2009 4:56:14 PM	5m	0	Driving slower than 3 mph; Ignition On; All conditions met for longer than 00:02:00 (Max Speed: 74.6 mph)
SV41-3	No Driver Key Used	MK-Exit Zone	Timber Springs Blvd, Orlando, FL, 32828	9/23/2009 6:11:49 PM	14h 27m	9	Outside
					14h 42m	9	

Sorted By Rule

Device	Driver	Exception Rule	Location	Start Time	Duration(min)	Distance	Details
Engine Idling 5 Minutes							
SV41-3	No Driver Key Used	Engine Idling 5 Minutes	Customer A: 415 Woodbury Rd, Orlando, FL, 32828-7101	9/23/2009 4:56:14 PM	5m	0	Driving slower than 2 mph; Ignition On; All conditions met for longer than 00:05:00
SV41-1	No Driver Key Used	Engine Idling 5 Minutes	Test zone: 1640 S Avalon Park Blvd, Orlando, FL, 32828	9/23/2009 7:56:13 PM	6m 11m	0 0	Driving slower than 2 mph; Ignition On; All conditions met for longer than 00:05:00
Idling Exception							
SV41-3	No Driver Key Used	Idling Exception	Customer A: 415 Woodbury Rd, Orlando, FL, 32828-7101	9/23/2009 4:56:14 PM	5m	0	Driving slower than 2 mph; Ignition On; All conditions met for longer than 00:05:00
SV41-1	No Driver Key Used	Idling Exception	Test zone: 1640 S Avalon Park Blvd, Orlando, FL, 32828	9/23/2009 7:56:13 PM	6m 11m	0 0	Driving slower than 2 mph; Ignition On; All conditions met for longer than 00:05:00
MK-Exit Zone							
SV41-2	No Driver Key Used	MK-Exit Zone	Sv Home: 13871 Waterhouse Way, Orlando, FL, 32828	8/19/2009 5:50:55 PM	35d 13h 42m	1,496	Outside
SV41-3	No Driver Key Used	MK-Exit Zone	Timber Springs Blvd, Orlando, FL, 32828	9/23/2009 6:11:49 PM	14h 27m	9	Outside
SV41-1	No Driver Key Used	MK-Exit Zone	9948 Berry Dease Rd, Orlando, FL, 32825	9/23/2009 7:35:16 PM	11h 22m 36d 15h 32m	24 1,529	Outside
MK-Idling							
SV41-1	No Driver Key Used	MK-Idling	Golfway Blvd, Orlando, FL, 32828	9/23/2009 6:40:48 AM	2m	0	Driving slower than 3 mph; Ignition On; All conditions met for longer than 00:01:00
SV41-1	No Driver Key Used	MK-Idling	S Avalon Park Blvd, Orlando, FL, 32828	9/23/2009 6:51:16 AM	1m	0	Driving slower than 3 mph; Ignition On; All conditions met for longer than 00:01:00
SV41-2	No Driver Key Used	MK-Idling	12361 Lake Underhill Rd, Orlando, FL, 32828	9/23/2009 7:14:03 AM	1m	0	Driving slower than 3 mph; Ignition On; All conditions met for longer than 00:01:00
SV41-2	No Driver Key Used	MK-Idling	12253 Lake Underhill Rd, Orlando, FL, 32825-5010	9/23/2009 7:19:24 AM	1m	0	Driving slower than 3 mph; Ignition On; All conditions met for longer than 00:01:00
SV41-2	No Driver Key Used	MK-Idling		9/23/2009 7:47:43 AM	1m	0	Driving slower than 3 mph; Ignition On; All conditions met for longer than 00:01:00
SV41-2	No Driver Key Used	MK-Idling		9/23/2009 3:48:00 PM	3m	0	Driving slower than 3 mph; Ignition On; All conditions met for longer than 00:01:00
SV41-1	No Driver Key Used	MK-Idling	9428 Lake Underhill Rd, Orlando, FL, 32825	9/23/2009 4:36:29 PM	1m	0	Driving slower than 3 mph; Ignition On; All conditions met for longer than 00:01:00
SV41-1	No Driver Key Used	MK-Idling	9952 Berry Dease Rd, Orlando, FL, 32825	9/23/2009 4:40:50 PM	1m	0	Driving slower than 3 mph; Ignition On; All conditions met for longer than 00:01:00
SV41-3	No Driver Key Used	MK-Idling	Customer A: 415 Woodbury Rd, Orlando, FL, 32828-7101	9/23/2009 4:56:14 PM	5m	0	Driving slower than 3 mph; Ignition On; All conditions met for longer than 00:01:00
SV41-1	No Driver Key Used	MK-Idling	Test zone: 1640 S Avalon Park Blvd, Orlando, FL, 32828	9/23/2009 7:56:13 PM	6m 24m	0 0	Driving slower than 3 mph; Ignition On; All conditions met for longer than 00:01:00
MK-Speeding for 2 minutes over 110km/h							
SV41-2	No Driver Key Used	MK-Speeding for 2 minutes over...	SR-417, Orlando, FL, 32829	9/23/2009 7:31:19 AM	2m	4	Driving faster than 68 mph; All conditions met for longer than 00:02:00 (Max Spe
SV41-2	No Driver Key Used	MK-Speeding for 2 minutes over...	SR-417, Orlando, FL, 32832	9/23/2009 4:04:19 PM	4m 7m	6 10	Driving faster than 68 mph; All conditions met for longer than 00:02:00 (Max Spe