

Motive



The image shows a woman from behind, looking at a computer monitor. The monitor displays a 'Safety' dashboard with a table of driving events. The table has columns for 'DATE / TIME', 'SEVERITY', and 'EVENT / RISK FACTORS'. The events listed include 'Close Following', 'Driver Capture', 'Unsafe Lane Change', 'Lane Cutoff', 'Hard Brake', 'Collision', and 'Hard Acceleration'.

DATE / TIME	SEVERITY	EVENT / RISK FACTORS
Apr 12, 7:19 PM	High	Close Following Hard Brake, Unsafe Lane Change
Apr 12, 5:21 PM	Driver Capture	Driver Capture Lane Cutoff - Hard Brake
Apr 11, 9:41 AM	High	Unsafe Lane Change Lane Cutoff - Hard Corner
Apr 10, 5:07 PM	Low	Lane Cutoff Hard Brake
Apr 7, 4:54 PM	Medium	Close Following Distraction - Acceleration - Smoking - Delayed Reaction
Apr 6, 2:55 PM	Critical	Collision
Apr 5, 2:47 PM	N/A	Hard Acceleration
Apr 5, 2:46 PM	Pending	Hard Brake Analysis in progress...
Apr 5, 2:45 PM	N/A	Hard Brake

Smart Event Thresholds

What are they? And how do
they improve coaching?

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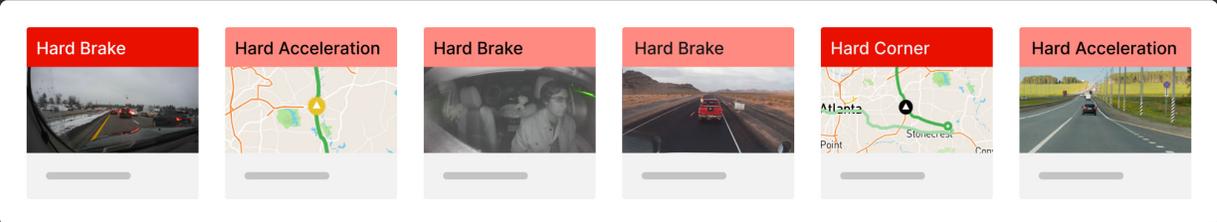
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What are Smart Event Thresholds?

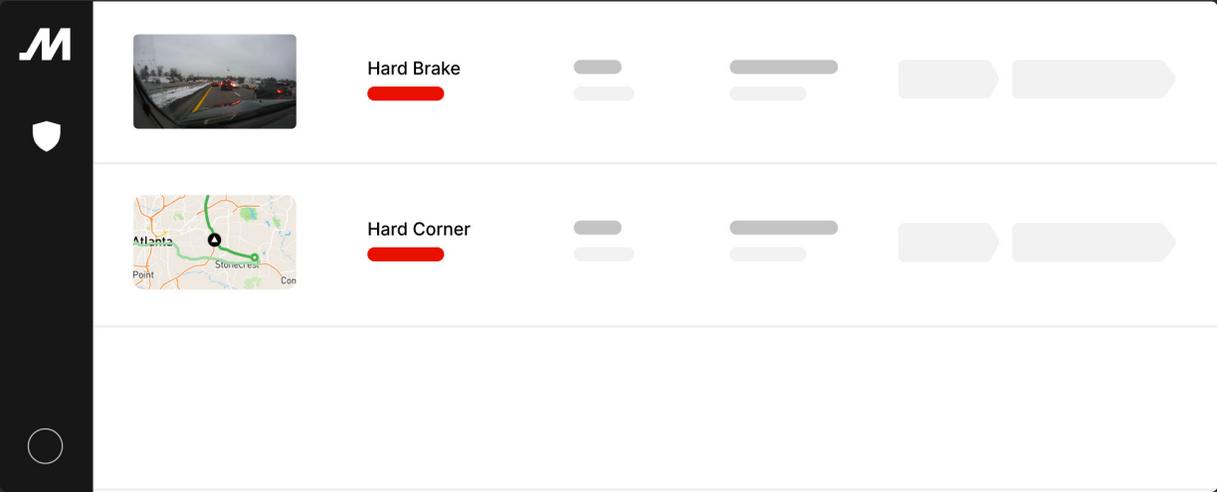
Think of Smart Event Thresholds as a filter for your Safety Hub. They automatically filter out the less-important events and highlight the highest-risk ones. So you only spend time coaching on what really matters.

More specifically, Smart Event Thresholds are proprietary data science models that sit in the intelligence layer of the Motive platform. They instantly assess all of the safety events captured by the Vehicle Gateway and AI Dashcam and surface the events that most need your attention.

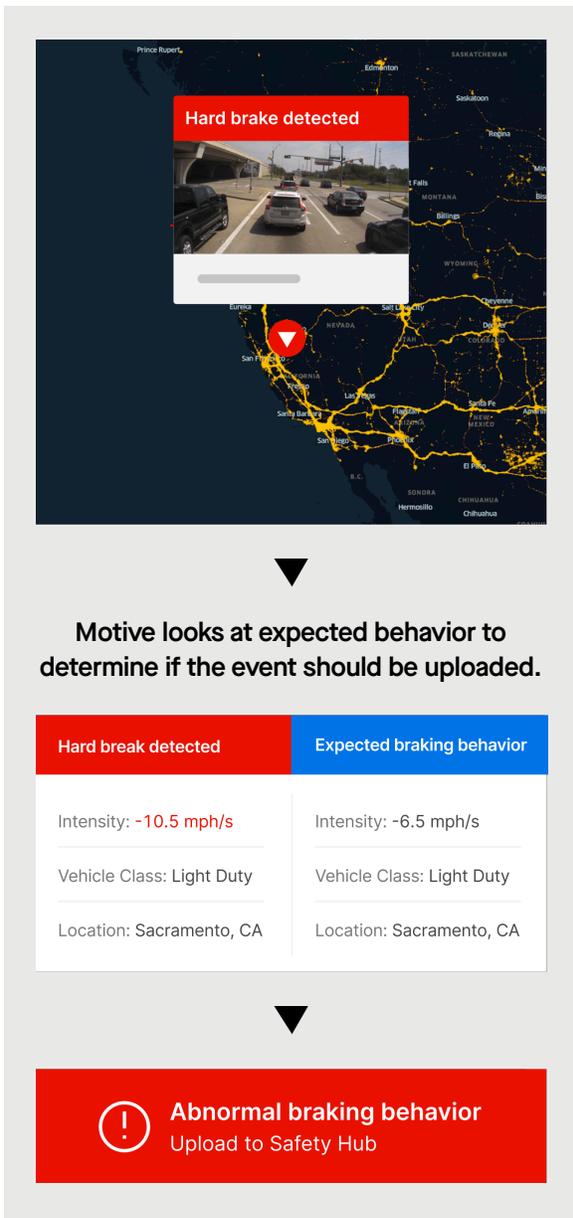
Safety Events



Smart Event Thresholds



Safety Hub



How are safety events triggered?

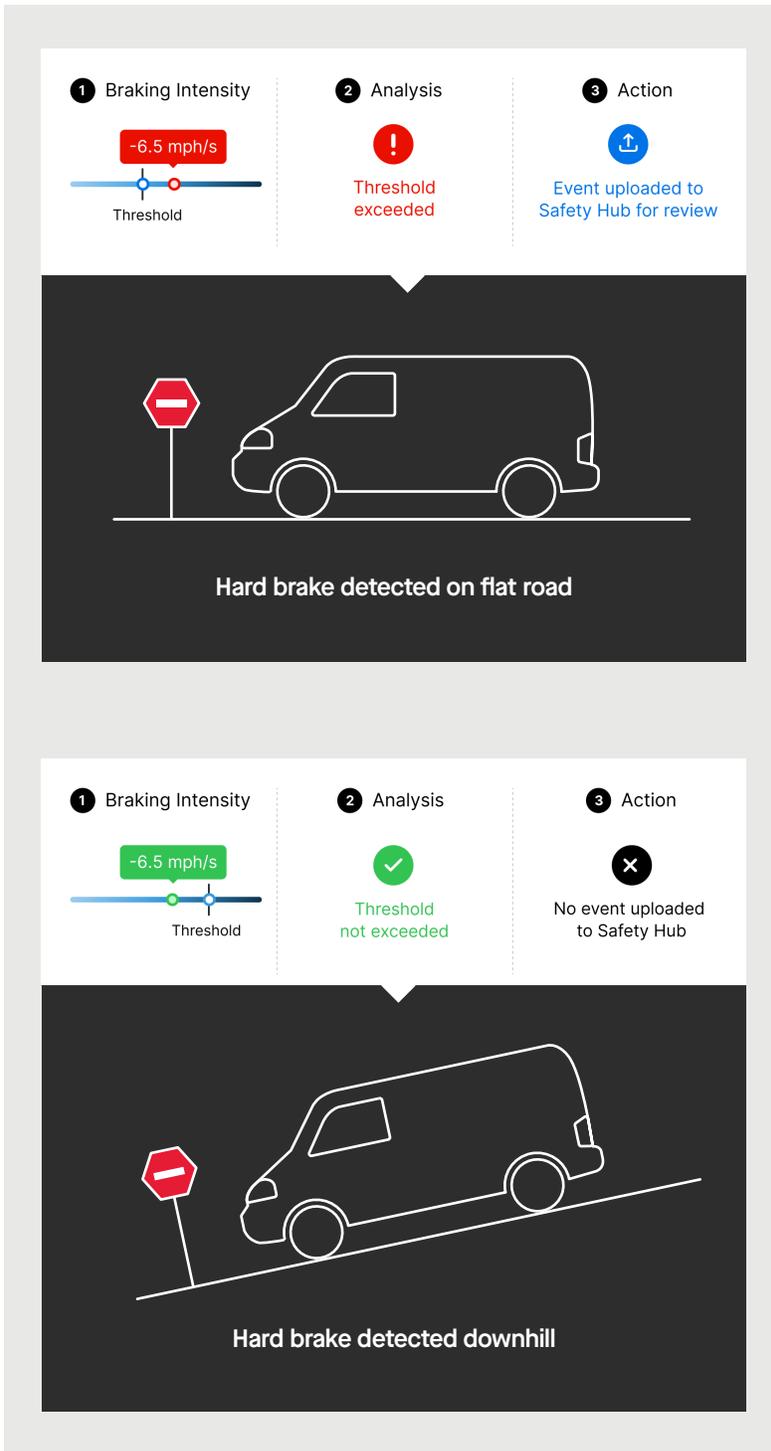
Safety events are triggered and recorded when the Vehicle Gateway's accelerometer detects a hard brake, hard acceleration, or hard corner. If you have an AI Dashcam, this will also trigger recording video footage.

How do Smart Event Thresholds work?

Smart Event Thresholds create the minimum intensity of a safety event. In other words, they create a “threshold” for safety events. When a safety event occurs that exceeds the threshold value, that triggers Motive's technology to determine if the event and video should be uploaded to your Safety Hub, or if it should be filtered out and not brought to your attention. And only Motive can factor in event type, vehicle class, and event location.

You can set your own custom threshold values, but Motive provides default values as a starting point. These initial threshold values factor in driver behavior across the entire Motive network and use billions of data points from hundreds of thousands of vehicles that have driven across every stretch of road. Smart Event Thresholds are dynamic and contextualized to your fleet's operations.

See it in action



Imagine a light-duty vehicle driving on a flat road.

The driver hard brakes at a stop sign, which triggers a safety event to be uploaded to the Safety Hub for review. Why? Because the intensity of the brake is higher than what's typically seen at that location for light-duty vehicles and exceeds the Smart Event Threshold.

The same hard brake at a stop sign downhill doesn't trigger a safety event to be uploaded, since the intensity of the hard brake is within the expected threshold range at that location for light-duty vehicles.

In general, the threshold value for a hard brake event is lower on a flat road and higher on a hill

While all safety events impact the DRIVE risk score, only the events that exceed the Smart Event Threshold will be uploaded to your Safety Hub.



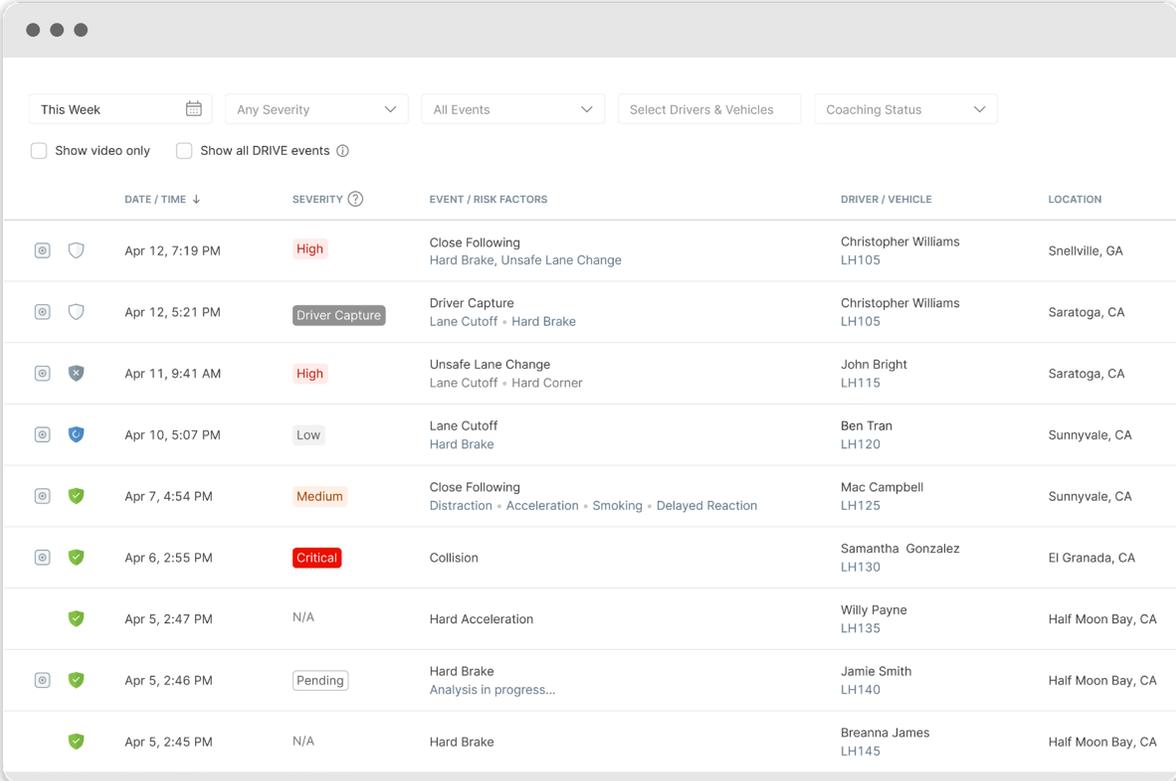
How do Smart Event Thresholds improve coaching?

Smart Event Thresholds help **automate risk identification and prevent accidents**. How? By helping you focus your coaching on the safety events that actually matter. We automatically filter out the safety events that don't represent high risk. So you can spend less time sorting through noise and more time coaching to correct high-risk behaviors.

How can we get started with Smart Event Thresholds?

Smart Event Thresholds are enabled for all customers by default. This allows our proprietary machine learning models to automatically surface the highest-risk events and video for review in your Safety Hub. You can filter down to video-only events or expand your view to include all safety events that go into the DRIVE risk score.

We recommend keeping Smart Event Thresholds turned on so you can take advantage of the dynamic thresholds recommended by Motive's models. We've already done the heavy lifting for you here so you can focus your time where it matters.



	DATE / TIME ↓	SEVERITY ⓘ	EVENT / RISK FACTORS	DRIVER / VEHICLE	LOCATION
 	Apr 12, 7:19 PM	High	Close Following Hard Brake, Unsafe Lane Change	Christopher Williams LH105	Snellville, GA
 	Apr 12, 5:21 PM	Driver Capture	Driver Capture Lane Cutoff + Hard Brake	Christopher Williams LH105	Saratoga, CA
 	Apr 11, 9:41 AM	High	Unsafe Lane Change Lane Cutoff + Hard Corner	John Bright LH115	Saratoga, CA
 	Apr 10, 5:07 PM	Low	Lane Cutoff Hard Brake	Ben Tran LH120	Sunnyvale, CA
 	Apr 7, 4:54 PM	Medium	Close Following Distraction + Acceleration + Smoking + Delayed Reaction	Mac Campbell LH125	Sunnyvale, CA
 	Apr 6, 2:55 PM	Critical	Collision	Samantha Gonzalez LH130	El Granada, CA
	Apr 5, 2:47 PM	N/A	Hard Acceleration	Willy Payne LH135	Half Moon Bay, CA
 	Apr 5, 2:46 PM	Pending	Hard Brake Analysis in progress...	Jamie Smith LH140	Half Moon Bay, CA
	Apr 5, 2:45 PM	N/A	Hard Brake	Breanna James LH145	Half Moon Bay, CA

But if you want to set your own custom thresholds, you can. Note that custom event thresholds remain static and don't factor in contextual data like event location. To override the default settings, [follow these steps](#) to manually define the intensity threshold for each driving event by vehicle type. Know that this will impact the number of safety events and video uploads you see in your Safety Hub.

Smart Event Thresholds are dynamic settings which compare driver behavior across the KeepTruckin network. Enabling Smart Vehicle Thresholds will allow KeepTruckin to determine which events are uploaded to view.

Smart Event Thresholds

Custom Event Threshold Settings

Custom event thresholds are static settings set across your entire fleet. These thresholds will determine which events are visible in the dashboard but do not determine which events are scored against a driver for DRIVE score.

	Light Duty	Medium Duty	Heavy Duty
Hard Brakes EST. 4-6 EVENTS PER WEEK	LOW INTENSITY MORE EVENTS -2 mph/s -5.3 mph/s -12 mph/s HIGH INTENSITY LESS EVENTS	LOW INTENSITY MORE EVENTS -2 mph/s -8.1 mph/s -12 mph/s HIGH INTENSITY LESS EVENTS	LOW INTENSITY MORE EVENTS -2 mph/s -6.1 mph/s -12 mph/s HIGH INTENSITY LESS EVENTS
Hard Accelerations EST. 4-6 EVENTS PER WEEK	-2 mph/s 10.1 mph/s -12 mph/s	-2 mph/s 8.1 mph/s -12 mph/s	-2 mph/s 6.1 mph/s -12 mph/s
Hard Corners EST. 4-6 EVENTS PER WEEK	.2 g 0.7 g 1.5 g	.2 g 0.54 g 1.5 g	.2 g 0.38 g 1.5 g

Default Threshold [Reset](#)

Frequently asked questions

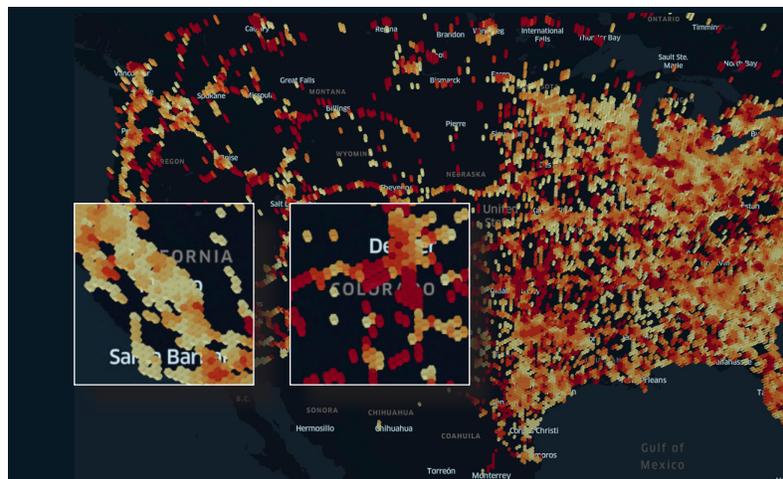
1. How are Smart Event Threshold values determined?

We combine geographical data from GPS with driving behavior across the entire Motive network to determine the threshold values. After dividing the country into hexagons, we determine the threshold value for every hexagon based on observed driving behavior for the specific event type, vehicle class, *and* event location.

Hexagons are color-coded in the map below to indicate the minimum intensity of the safety event that will trigger an event and video upload. Red is more intense. Yellow is less.

For example, you see a lot of red in Colorado since vehicles have more intense hard brakes in the mountains. The Smart Event Threshold value is set higher in those mountainous areas to ensure only the most relevant events and video get surfaced. Compare that to the yellow and orange you see in California, where the roads are mostly flat and the Smart Event Threshold value is set lower for hard brakes.

To reflect recent driving behavior, Smart Event Thresholds factor in data from the previous quarter and are updated once per month.



2. How does Motive determine Smart Event Threshold values in areas with minimal vehicle activity?

Smart Event Thresholds in less dense areas exclude event location and only factor in observed driving behavior for the event type and vehicle class.

3. Are Smart Event Thresholds only for vehicles with dash cams? No, Smart Event Thresholds filter safety events for all vehicles with a Vehicle Gateway installed. For vehicles with Motive AI Dashcams, video footage that exceeds the event threshold value will also be uploaded to your Safety Hub.

4. Do Smart Event Thresholds impact the DRIVE risk score? Event threshold values (smart or custom) don't impact the **DRIVE risk score**. DRIVE factors in all safety events, including the events filtered out by event thresholds. This allows us to benchmark driver risk across the entire Motive network and provide an objective driver risk score. Smart Event Thresholds, on the other hand, act as filters to ensure only the highest-risk events that require your attention get surfaced in your Safety Hub.

5. How do I retrieve videos that aren't uploaded to the Safety Hub? For videos that fall below the event threshold value and aren't automatically uploaded, you can recall video [using these simple steps](#).

Unlock Potential



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About Motive

Motive builds technology to improve the safety, productivity, and profitability of businesses that power the physical economy. The Motive Automated Operations Platform combines IoT hardware with AI-powered applications to automate vehicle and equipment tracking, driver safety, compliance, maintenance, spend management, and more. Motive serves more than 120,000 businesses, across a wide range of industries including trucking and logistics, construction, oil and gas, food and beverages, field services, agriculture, passenger transit, and delivery. Visit gomotive.com to learn more.