FORWARDVIEW
A new level of insights for fleets and drivers

Providing drivers with a view of the road ahead.

The innovative SpeedGauge ForwardView™ web service efficiently delivers small packets of critical local road network map data to in-vehicle telematics devices and mobile apps for dynamic, over-the-road situational awareness. Continuous over-the-air access to accurate information about the road ahead alerts drivers to upcoming road conditions and allows you to monitor speeding and other behaviors. In so doing, ForwardView enhances driver safety and reinforces good driving behavior to improve performance and protect your drivers and fleet.

The web service delivers map data from a 4x4 km area and is designed to be called every 60 seconds for local updates. Fully integrated with the SpeedGauge Safety Center®, the service supports fleet-specific custom speed rules and other customizations such as private roads and geofences.

Requirements:

- Applications must include a feedback loop to allow drivers to alert SpeedGauge to map data errors, branding & attribution
- SpeedGauge partnership
- SpeedGauge must have some visibility into app functionality in order to provide tier-2 support

Use cases include:

- **Speed Zone Changes.** Forward looking speed zone warnings let drivers know that the speed limit is about to change.

- **Highlight Risk Zones.** Speed warnings that go beyond the posted speed limit.

- **Continuous Speeding Analysis.** Meter by meter coverage at all points of a route.

- **Speeding Alarms.** Duration-based speed alarm rules.

- **Custom Speed Limits**. Geofences create custom limits for specific locations.

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Data attributes

FIELD	DESCRIPTION
customer_alias	The customer alias is a unique alphanumeric string that represents an individual customer, up to 10 characters in length
vehicle_type	Usually TRUCK or CAR. See "Appendix B" in the SpeedGaugeASP API Documentation for a complete list of acceptable values by country/region
speed	Positive values indicate MPH; negative values indicate KPH
longitude	In decimal degrees, e.g., -122.153302, where positive values are east of the Greenwich meridian
latitude	In decimal degrees, e.g., 37.432334, where positive values are north of the Earth's equator
compass	The vehicle heading in compass degrees. Values must be positive integers between 0 and 359. Where 0 indicates North. (Alternatively, can be a string giving approximate directions: "N", "NE", "E", "SE", etc., which will then be turned into compass heading such as 0, 45, 90, 135, etc.)
distance_from_crumb	Distance from the location in the query to the nearest edge of this link. Given in meters.
lanes	Number of lanes for this road segment
name	Short name for the road segment
speed_limit	Speed limit. Positive numbers for MPH; negative numbers for KPH. May depend on the vehicle_type submitted in the query.
link_id	The unique ID for the road segment
geometry	A linestring representing the road segment in WKT format
dir_travel	F or B. (B) for a two-way road. (F) for a one-way road with the direction of travel being 'from' the first point to the last
bearing_from_crumb	A measure of how much the vehicle would have to turn to get to the link. Values between -180 and 180. Negative values mean turns to the vehicle's left; positive values mean right turns. The heading to the nearest point on the link is used as the heading to the link.
height_restriction	The height restriction for the link in inches or centimeters depending on the region. This field is not included if no restriction is in place.

Predictive square

A 16 km² area of map data is returned with each data call. Small footprint in-vehicle map data combined with server-side integration via SpeedGauge Safety Center allows developers to create many different lightweight dynamic solutions.

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