

APTIV CONNECT QUALIFIER

Environmental Insights

Enhance your vehicle validation processes by integrating weather and road data into Aptiv Connect Qualifier.

When you are validating a vehicle, the external environment can have a huge impact. A system that performs well on a sunny, clear day on a flat road may perform very differently in a blizzard in the mountains. And that's especially true for advanced driver-assistance systems (ADAS) and electric vehicles (EVs).

That's why most engineering teams plan to test their vehicles under a variety of environmental conditions. But ensuring that you have met those testing goals is very challenging if you are relying on manual procedures to record the conditions.

Environmental Insights for Aptiv Connect Qualifier makes it much easier to ensure test coverage. It integrates road and weather data with the data coming from the vehicle, giving you a comprehensive view.

It can also aid in troubleshooting — making it easier to pinpoint the root cause of problems that only occur in certain situations.

Getting started with road and weather data

Environmental Insights is available for organizations with an Aptiv Connect Qualifier subscription. You can buy it separately or as part of the complete Qualifier ADAS solution. After you purchase Environmental Insights, your Aptiv Customer Success Engineer (CSE) will work with you to set up the service. Any vehicle data recorders (VDRs) with the service enabled will begin collecting road and weather data on the edge at a feature-relevant rate. You will then be able to access that data in several places within the Qualifier web application and AC-Graph

Aptiv has pre-built ADAS testing coverage reports for the Analytics page that include weather and road data. Contact your Aptiv representative if you would like to enable one of these reports or design a custom report for your organization.

To learn more or see a demo, contact your Aptiv representative or email sales@aptivcs.com.

BENEFITS

- **Ensure test coverage in various conditions**
- **Streamline troubleshooting for issues related to external factors**
- **Reduce the time and expense of validating ADAS and EV systems**

APTIV

AVAILABLE DATA

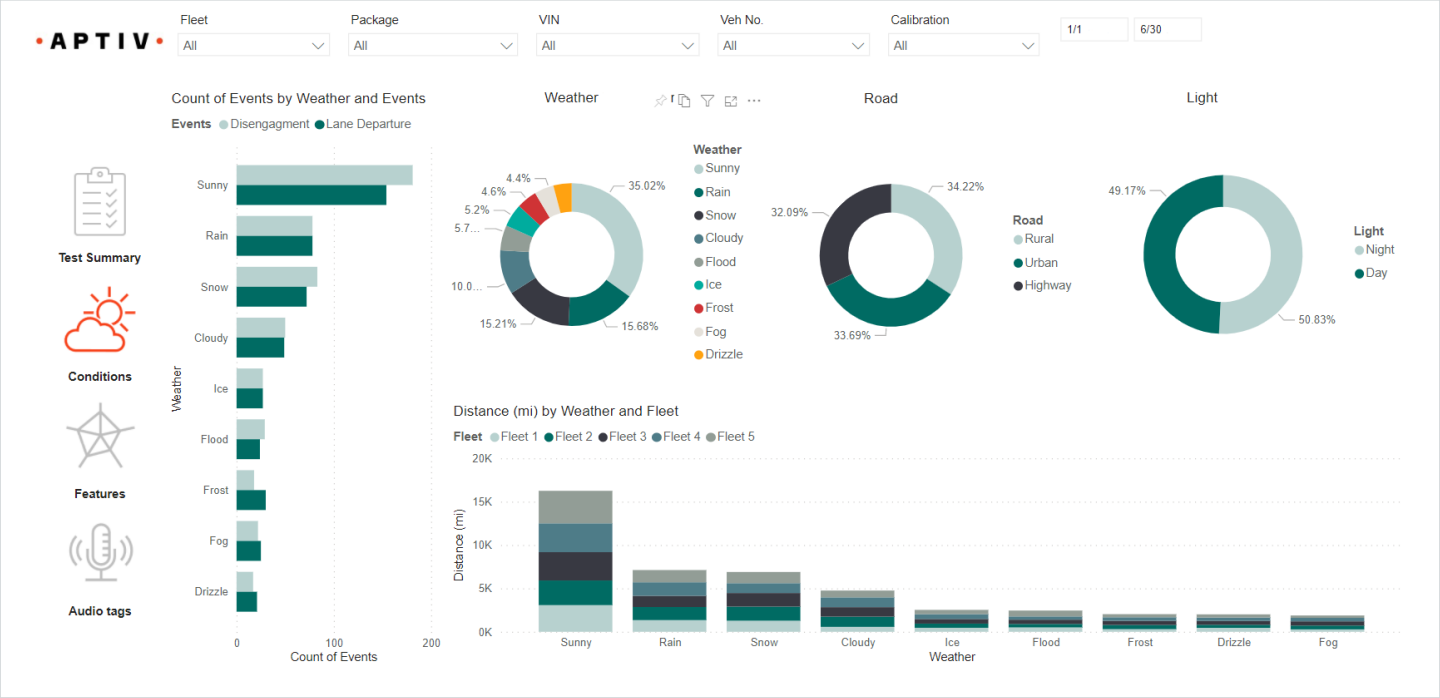
Weather

- Ambient temperature
- Atmospheric pressure
- Atmospheric humidity
- Wind speed and direction
- Weather condition (thunderstorm, drizzle, rain, snow, clear, clouds, mist, smoke, fog, haze, dust, ash, squall, tornado)
- weather condition detail (thunderstorm with heavy rain, light intensity drizzle, moderate rain, shower snow, few clouds 11-25%, etc.)
- Rain and snow volume for the last hour

Road

- Travel direction
- Existence of road dividers
- Type of intersection
- Speed category (based on posted speed limits)
- Traffic pattern
- Number of lanes
- Pavement/surface type
- Type of access (controlled, limited, public, private)
- Road slope
- Road curvature
- Bicycle access

Some data not available in all regions



Interactive dashboards allow you to track your mileage in various weather, road, and light conditions, as well as how often critical events happen in those situations.

ABOUT APTIV

Aptiv is a global technology company that develops safer, greener, and more connected solutions enabling a more sustainable future of mobility.
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