



# Weigh-in-Motion:

## GoWIM — Weigh Every Axle Without Slowing Traffic

**G**oWIM brings weigh-in-motion stations into a single, centrally managed traffic operation. Each station carries its own site and equipment numbers, road name, location, timezone, and associated cameras — so operators always know which lane of which highway produced every measurement. Every WIM appears on the live operations map with real-time communication status.

**E**very vehicle that crosses a GoWIM station produces a rich, detailed record. GoWIM captures axle count, individual axle weights and spacings, total gross weight, speed, length, height, lane and direction of travel, headway, and ambient temperature. It distinguishes single, tandem, and tridem axle groups, records vehicle class, license plates, and DOT and MC carrier numbers, and links sensor signatures and images to each reading.

**G**oWIM is built for enforcement-grade screening. The platform flags overweight, overspeed, overheight, overlength, gross-overload, and per-axle overload conditions against the speed limits and weight and speed thresholds you set, then offers a dedicated violations view that surfaces only the readings that breached a rule. Classification is taxonomy-aware, supporting FHWA 13-class and other industry-standard schemes.

**S**tations report in on a schedule you control, with on-demand manual checks for spot inspections, and every reading keeps the station's online, offline, or unreachable status current. Captured images and dimension profiles flow into the storage backend of your choice, and GoWIM connects cleanly into reporting and the wider GoATMS platform — including bulk lookup, proximity search, and violation retrieval.

### Weigh-in-Motion Feature Highlights:

- Axle Weighing
- Violation Screening
- Vehicle Classification

#### VEHICLE MEASUREMENT CAPTURE

<b>PER-VEHICLE RECORD</b>	<i>Weight, speed, length, height, lane, headway</i>
<b>AXLE DETAIL</b>	<i>Per-axle weights, spacings, overload indicators</i>
<b>AXLE GROUPS</b>	<i>Single, tandem, tridem; per-group limits</i>
<b>VEHICLE ID</b>	<i>Front/rear plates, DOT &amp; MC numbers, class</i>

#### VIOLATION SCREENING

<b>VIOLATION TYPES</b>	<i>Overweight, overspeed, overheight/length, axle</i>
<b>VIOLATIONS VIEW</b>	<i>Breached-rule readings, time-filterable</i>

#### VEHICLE CLASSIFICATION

<b>SUPPORTED SCHEMES</b>	<i>FHWA 13, TLS 8+1, Wavetronix, COST 323, ECE</i>
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#### STATION MANAGEMENT & INTEGRATION

<b>POLLING</b>	<i>Per-station schedule, on-demand manual poll</i>
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*\* Captured data fields scale to the connected WIM hardware and its configured protocol.*