

ROADTRUTH User Guide

VEHICLE RELIABILITY INTELLIGENCE | PLATFORM v1.6 | SIBLING OF GROUNDTRUTH GSRI | PAIRED WITH ROADWORTHY

1. What ROADTRUTH is

ROADTRUTH monitors every vehicle in a fleet through the telematics it already carries, computes a **Vehicle Health Score (VHS, 0-100)** for each unit, predicts what is about to break inside a time window, and holds itself to account: every prediction is adjudicated against what the workshop actually found, and both confirmations and misses are published on the Prover Board.

The platform is organized like a clinic. AI **Physicians** read each unit's case file (fault codes, telemetry, service history) and draft prognoses; a human maintenance lead reviews and posts them; the shop's findings close the loop. Three honesty rules run through everything: simulated data is always labeled, cost figures are estimates and never quotes, and nothing posts to the board without a human confirming it.

ROADTRUTH is paired with **ROADWORTHY**, its driver-readiness sibling. Vehicle data flows to the driver's app; only a 0-100 readiness aggregate flows back. Driver health never crosses the wall.

2. The Floor

The Floor is the fleet at a glance - one card per unit.

- **VHS gauge and status.** Green ≥ 85 (NOMINAL); amber (WATCH / ADVISORY); red (FAULT).
Provider-mapped units are scored by the engine every 15 minutes; demo units carry labeled simulated data.
- **WHY THIS SCORE.** Every computed score shows its arithmetic: starting from 100, each penalty is named with its evidence - open fault codes (14-day window), active prediction risk (max confidence x 30), telemetry freshness (-5 if no rows in 24h). Each computation is stored with its full basis in an audit history.
- **LIVE ELD badge and channels.** Partner-mapped units render their actual telemetry rows (refreshed every 60 seconds). A freshly imported unit shows 'awaiting first telemetry window' until the next ingestion pass.
- **Alerts.** When a unit worsens, the alert appears on its card with delivery status (sent to WhatsApp, or logged).
- **ROADWORTHY strip.** Paired units show driver readiness and Lane Readiness - the lower of driver readiness and vehicle health.
- **Active prognosis.** The open prediction with its interval, confidence, and issuing Physician.

3. Clinical Rounds

Rounds is the floor's conversation: the Physicians walking the fleet, challenging each other's readings, answering the Adversary. Use **ASK THE FLOOR** to put a question to the live AI channel - 'what's the risk on LAG-07 this week?' - and the floor answers from the actual case files.

4. The Prover Board

The board is the platform's public record. Every prediction appears with its type, interval, and status:

Status	Meaning
PENDING	Posted; the interval clock is running.
CONFIRMED	The shop's findings matched the prediction.
MISS	The findings refuted it. Misses stay on the board - they train the engine.
WITHDRAWN	Pulled before adjudication.

Statuses flip when a teardown report arrives (Section 8).

5. The Forecaster

The ninth agent, powered by Claude. **RUN AI FORECAST** on any unit produces a 90-day outlook: per-item risk, expected window, recommended action, and a cost range grounded in the fleet's own logged invoices - plus a quarterly maintenance budget figure. Every figure is marked **ESTIMATE - NOT A QUOTE**, and each item states its basis. The more service records the Office logs, the sharper the cost grounding becomes.

6. The Office

The Office is the fleet maintenance desk, gated by PIN. The **master Office PIN** sees everything; a **fleet PIN** (set per carrier) scopes every action below to that carrier's own units - pairing, service records, predictions, import, registry view, and reports.

Fleet Registry

- **ADD FLEET** - name the carrier, pick its provider (Samsara or Motive), paste its read-only API token (stored server-side, never displayed again), and optionally set an alert WhatsApp number and a fleet PIN.
- **CONNECT OAUTH** - the one-click alternative to a pasted token: the carrier's admin approves access on the provider's own consent screen. Tokens rotate automatically; the carrier can revoke from its own dashboard.
- **IMPORT UNITS** - pulls the carrier's vehicle list from its provider and creates the units pre-mapped. They appear on the Floor immediately and score on the next ingestion pass.
- **Badges** - OAUTH CONNECTED / TOKEN SET / ENV FALLBACK show each fleet's credential state; FLEET PIN shows scoped access is configured.
- **PILOT REPORT** - compiles the validation report (units, VHS trajectories, full prediction record with precision, alerts, logged spend) as downloadable markdown, per fleet or across all fleets.

Driver pairing

Enter the driver's DoktorConnect ID (DC-XXXX-XXXX) against a unit and PAIR. The driver's 'My Truck' card and Lane readiness strip light up in ROADWORTHY on their next open.

Service records

LOG WORK after every job - description, parts, odometer, hours, cost, currency. This is the Forecaster's cost reference base: the fleet's own invoices become the pricing truth.

Prediction Desk

- 1 **AI PROPOSE** - the Physicians read the unit's real case file and draft up to two candidates with rationale. Thin evidence produces fewer candidates or none; that restraint is deliberate.
- 2 **Review and edit** - take a draft with USE THIS DRAFT, or write your own; adjust confidence and interval.
- 3 **POST TO BOARD** - the prognosis goes to the Prover Board as PENDING with the next P-#### id. Nothing posts without this human step.

7. Connecting a carrier, end to end

- 1 Office -> enter PIN -> ADD FLEET (or have the carrier click your OAuth connect link and approve).
- 2 IMPORT UNITS - trucks land on the Floor, pre-mapped.
- 3 Within 15 minutes the ingestion pass writes telemetry and fault codes; the engine computes each unit's first VHS with its basis.
- 4 Pair drivers to units by DC-ID; the ROADWORTHY lane strip goes live.
- 5 Give the shop the WhatsApp reporting habit (Section 8). From here the platform runs itself: score -> predict -> alert -> confirm.

No hardware is installed on any vehicle at any step. Access is read-only, scoped, and revocable by the carrier at any time.

8. WhatsApp shop reports

After a repair, the mechanic sends one short WhatsApp message to the fleet's ROADTRUTH number: the prediction id (or the unit), what was found, and whether it matched - a photo helps. The AI parses the message, matches it to the open prediction, and flips the board to CONFIRMED or MISS. Example:

P-0147 LAG-07 - opened the alternator, rectifier diode pair burnt exactly as predicted.
Replaced. Confirmed.

Report the misses with the same energy as the wins. A miss on the board is the engine learning; a miss kept quiet is the engine lying.

9. Data and privacy

- **Machine data only.** ROADTRUTH ingests vehicle stats, diagnostic fault codes, and locations. It holds no personal health information.
- **The one-way wall.** Driver health lives in ROADWORTHY under DoktorConnect's health-privacy practices. Only the 0-100 readiness aggregate crosses into ROADTRUTH.
- **Credentials.** Carrier tokens and OAuth credentials are stored server-side only and never reach a browser. OAuth tokens rotate automatically.
- **Revocation.** A carrier can disable its token or revoke the OAuth grant in its own provider dashboard at any moment; pilot data is deleted or returned on request.

10. Troubleshooting and FAQ

You see	It means
'Awaiting first telemetry window'	The unit was just imported; the next 15-minute ingestion pass will populate it.
ENV FALLBACK on a fleet	The fleet has no stored credential of its own; it rides the deployment's environment token if one is set.
A score changed after a repair	Correct behavior - the engine recomputes from current evidence. Adjudicating a prediction removes its
DEMO label on output	An honest fallback: the underlying service or table is not configured yet, and the platform says so inste
'This pin is scoped to another fleet'	A fleet PIN was used on a unit belonging to a different carrier. Use that fleet's PIN or the master PIN.
AI PROPOSE returns nothing	The case file was too thin to justify a prediction. Wait for more telemetry or fault evidence.

11. Support

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ROADTRUTH - VEHICLE RELIABILITY INTELLIGENCE - MACHINE DATA ONLY; DRIVER HEALTH NEVER CROSSES THE WALL -
TRL 3 VALIDATION BUILD