DeviationIQ

FLEET RISK & COMPLIANCE INTELLIGENCE

Sample Fleet Risk Review

Synthetic demonstration report • September 2026

PURPOSE

Demonstrate how DeviationIQ can transform existing VTS and E-Lock data into ranked risks, recurring hotspots, trend comparisons and practical operational actions.

DATA STATUS

100% synthetic / fictional data created for demonstration. No real customer, vehicle or operational records are used.

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Prepared by DeviationIQ. Illustrative content only.

Executive Summary

This sample demonstrates the type of management-level insight DeviationIQ can generate from existing vehicle-tracking and e-lock reports. The report does not claim to identify confirmed theft or misconduct; it highlights patterns that deserve operational validation.

Illustrative fleet snapshot

ROUTE DEVIATIONS	HALT DEVIATIONS	OVERSPEED EVENTS	HIGH-RISK JOURNEYS
38	**27**	**219**	**16**
↓ **−37.7%** vs previous	↓ **−38.6%** vs previous	↓ **−29.8%** vs previous	↓ **−48.4%** vs previous
Previous period: 61	Previous period: 44	Previous period: 312	Previous period: 31

Lower is better for all four indicators. Values are synthetic.

Overall interpretation: the synthetic fleet shows an improving six-month trend, but a small number of recurring locations and vehicles continue to account for a disproportionate share of exceptions.

Management takeaway

The priority is not to review every event individually. The objective is to identify **where the pattern is repeating**, **who/what is driving it**, and **which intervention should be tested first**.

1. Fleet Risk Dashboard

A concise view for fleet, logistics, safety and security managers.

Illustrative fleet risk index (score out of 100)

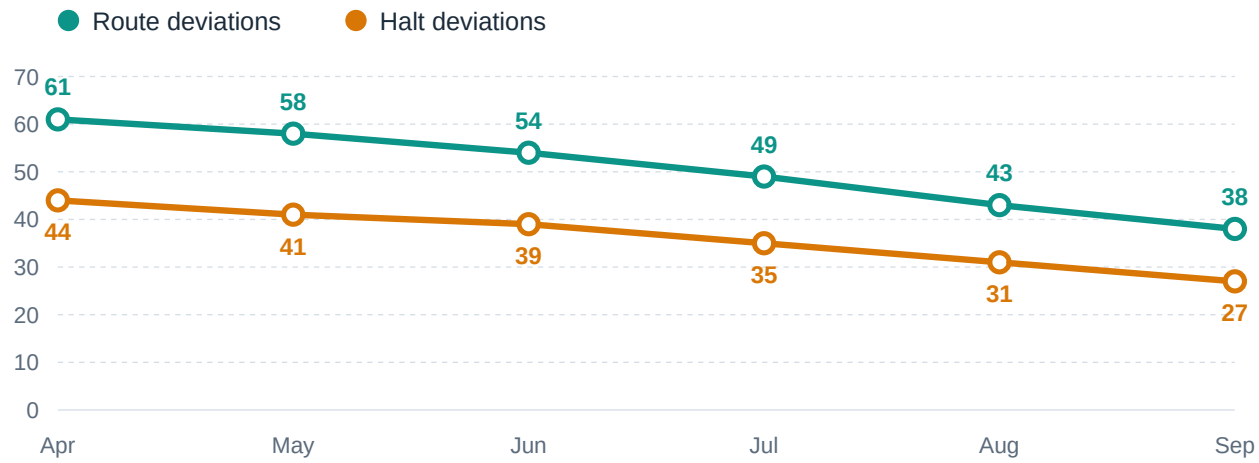


Risk area	Illustrative score	Interpretation
Route deviation	84 / 100	High concentration at a few recurring hotspots
Halt deviation	71 / 100	Several repeat locations require validation
Overspeed	66 / 100	Improving trend but recurring vehicle-level exceptions
E-lock integrity	82 / 100	Synthetic anomalies require journey-level correlation

Important: *scores shown above are illustrative. A production DeviationIQ score should be calculated from an agreed methodology using the client's data, business rules and operational context.*

2. Trend Intelligence

The value of analytics is not only counting events; it is showing whether operational controls are improving the fleet over time.



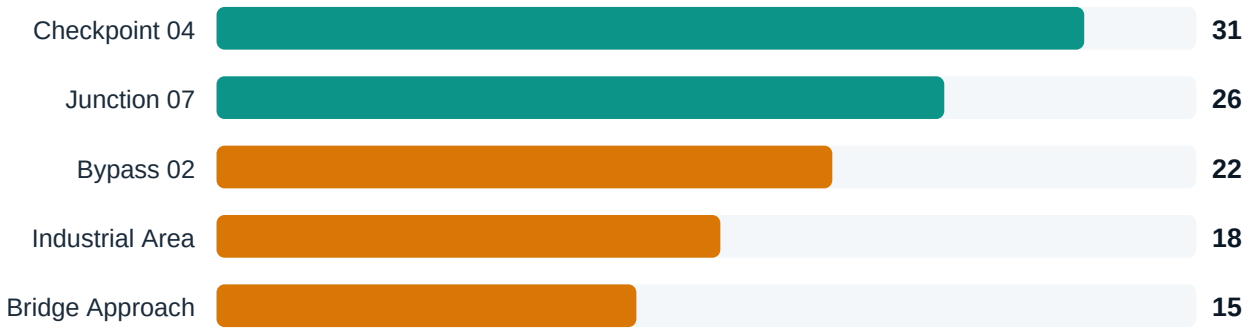
Illustrative six-month trend

Across the synthetic period, route and halt deviations decline steadily. In a real engagement, DeviationIQ would connect the change to specific interventions — such as route correction, transporter review, driver communication, geofence changes or control-point action — rather than presenting the percentage change alone.

3. Route & Halt Deviation Hotspots

Hotspot analysis ranks locations where abnormal behaviour repeats. The location should then be validated against route design, traffic conditions, authorised operational practices and security context.

Top risk hotspots (synthetic events, six-month total)



Route / corridor	Hotspot	Events (6 mo.)	Risk	Observation
North Hub → Depot A	**Checkpoint 04**	31	High	Repeated route exits during 22:00–02:00
Depot B → South Hub	**Junction 07**	26	High	Recurring abnormal halts, avg. 34 min
North Hub → Depot C	**Bypass 02**	22	Medium	Repeated overspeed + short route exits
Depot D → North Hub	**Industrial Area**	18	Medium	Long halts during return journeys
South Hub → Depot E	**Bridge Approach**	15	Medium	Night-time deviation cluster

Event counts are cumulative over the six-month period (Apr–Sep 2026) and include all exception types observed at the location.

4. Vehicle Risk Ranking

Vehicle-level ranking helps managers focus attention on recurring patterns instead of treating every exception equally.

Vehicle ID	Route dev.	Halt dev.	Overspeed	E-lock anomalies	Risk score	Risk
DEMO-017	9	7	18	2	**86**	High
DEMO-042	8	5	21	1	**82**	High
DEMO-031	7	6	15	2	**78**	High
DEMO-008	6	4	17	1	**72**	Medium
DEMO-055	5	5	13	0	**68**	Medium

Counts are cumulative over the six-month period (Apr–Sep 2026).

Example interpretation

DEMO-017 has the highest illustrative risk score because it combines repeated route deviations, abnormal halts, overspeeding and two e-lock anomalies. In a real report, this would trigger a focused operational review rather than an automatic allegation of wrongdoing.

5. Cargo Security & Pilferage Risk

DeviationIQ can analyse combinations of journey events that may indicate elevated cargo-security risk. This is a **risk-screening function, not proof of theft**.

Signal	Example analytical question	Illustrative finding
Repeated abnormal halt	Does the same location recur across multiple journeys?	Yes — Junction 07
Route deviation + halt	Do deviations occur shortly before prolonged halts?	Pattern observed in 8 synthetic journeys
Night-time clustering	Do exceptions cluster in vulnerable hours?	Higher concentration 22:00–02:00
E-lock anomaly + location	Do unusual lock events overlap with other exceptions?	2 synthetic journeys require review
Transporter pattern	Is the same transporter associated with repeated exceptions?	One synthetic transporter flagged for review

Recommended approach

Use VTS location, route, halt, speed and journey-stage data alongside e-lock events. Rank locations and journeys for investigation, then allow the client's security/operations team to validate the underlying cause.

6. E-Lock Integrity Analysis

E-lock data becomes more useful when analysed together with the journey rather than viewed as isolated lock/unlock events.

Analysis	What DeviationIQ checks	Example output
Tamper recurrence	Repeated tamper events by vehicle/location	Vehicle DEMO-017: 2 events
Unexpected unlock context	Unlock outside expected geofence or journey stage	1 synthetic event
Journey correlation	Deviation/halt around the same event	2 correlated journeys
Location recurrence	Same location across multiple vehicles	Checkpoint 04
Time-window pattern	Clustering by time of day	22:00–02:00 cluster

Key principle: an e-lock anomaly should not be judged in isolation. Correlation with route, halt, geofence and journey stage creates a more useful operational risk signal.

7. Recommended Actions

Every DeviationIQ report should end with prioritised actions — not just charts.

Priority	Action	Recommended next step	Level
01	**Review recurring hotspot locations**	Investigate the top 5 locations and validate whether route design, roadside activity or operational behaviour is driving repeated exceptions.	High
02	**Review high-risk vehicles**	Conduct vehicle/operator review for the five highest-risk synthetic vehicle profiles and check for recurring behaviour.	High
03	**Strengthen night-journey controls**	Review journeys between 22:00–05:00 where deviations or abnormal halts cluster.	Medium
04	**Monitor e-lock anomalies with journey context**	Correlate tamper/unusual unlock events with route deviation, halt duration and geofence position before escalation.	High
05	**Track monthly improvement**	Repeat the same analysis each month to verify whether corrective actions reduce event frequency.	Medium

8. Monthly Improvement Scorecard

The same metrics should be repeated each month so management can determine whether interventions are working.

KPI	Baseline	Current	Target direction	Status
Route deviations / 100 journeys	12.4	**7.8**	↓	Improving
Abnormal halts / 100 journeys	8.9	**5.5**	↓	Improving
Overspeed events / 100 journeys	63	**45**	↓	Improving
High-risk journeys	31	**16**	↓	Improving
E-lock anomalies / 1,000 journeys	7.1	**4.3**	↓	Improving

What success looks like

A strong DeviationIQ engagement should show not only fewer events, but also **fewer repeat hotspots**, **fewer repeat-risk vehicles** and clear evidence that agreed corrective actions are reducing recurrence.

9. Data Required for a Real Analysis

This sample uses fictional data. For a real client, DeviationIQ can work from reports/exports already available in the client's VTS and E-Lock systems, subject to permission and data-sharing terms.

Data category	Useful fields
Vehicle master	Vehicle ID, transporter, route, plant/depot, vehicle type
Trip/journey	Start, destination, start/end time, journey status, distance
Route deviation	Vehicle, location, timestamp, deviation duration/severity
Halt	Location, start/end time, duration, journey stage
Overspeed	Vehicle, timestamp, speed, threshold, location
E-lock	Lock/unlock/tamper event, timestamp, location, event type
Geofence	Geofence name, type, coordinates/rule
Historical data	Prior months for MoM/YoY and recurrence analysis

Data privacy principle

Customer data should only be analysed with appropriate authorisation. DeviationIQ's marketing/sample materials should use synthetic or anonymised information unless a customer has explicitly permitted use of its data.

10. Suggested Client Deliverable

A production monthly report can be structured as follows:

Section	Purpose
Executive Summary	Management-level view of what changed and where attention is required
Fleet KPI Dashboard	Core metrics and current risk status
Route Deviation	Hotspots, recurrence, severity and vehicle/route ranking
Halt Analysis	Abnormal halt locations, duration and time-window patterns
Overspeed Analysis	Vehicle, route, location and trend analysis
Journey Risk	Risk scoring and high-risk journey list
E-Lock Integrity	Tamper/unlock patterns correlated with journey context
Cargo Security Risk	Potential risk hotspots and patterns for operational validation
YoY / MoM Comparison	Measure whether interventions are working
Action Plan	Prioritised recommendations with owners and review dates

Sample report conclusion: the synthetic fleet shows a positive overall trend, but recurring hotspots and a small group of high-risk vehicle profiles remain. The recommended next step is focused investigation of the top locations and vehicles, followed by monthly measurement of whether corrective actions reduce recurrence.

Want to see this for your own fleet?

Send one month of authorised sample data and we'll show you what it reveals — no new hardware, no new portal.

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This document is a fictional demonstration created for DeviationIQ. All vehicle IDs, locations, event counts, risk scores and observations are synthetic and should not be interpreted as real customer or industry incident data.