

Hexagon CAS Insights

From CAS events to fleet-wide analytics



THE CHALLENGE

You can’t act on risk you can’t see

Every shift, Hexagon CAS generates a wealth of information: interaction events, overspeed events, and device readings. Most of this data stays in the truck, leaving sites data-rich and insight-poor. The gap between the two conceals risk.

Patterns across locations, shifts, and time periods can be difficult to identify when events are reviewed vehicle by vehicle. Near-misses and alerts can also depend on operator reporting, limiting visibility into broader safety trends. Across large fleets, tracking device connectivity and firmware status adds another layer of complexity, making proactive maintenance more difficult. Safety teams need a clearer, consolidated view of what is happening across the fleet so they can identify trends, prioritise issues, and act on reliable information.

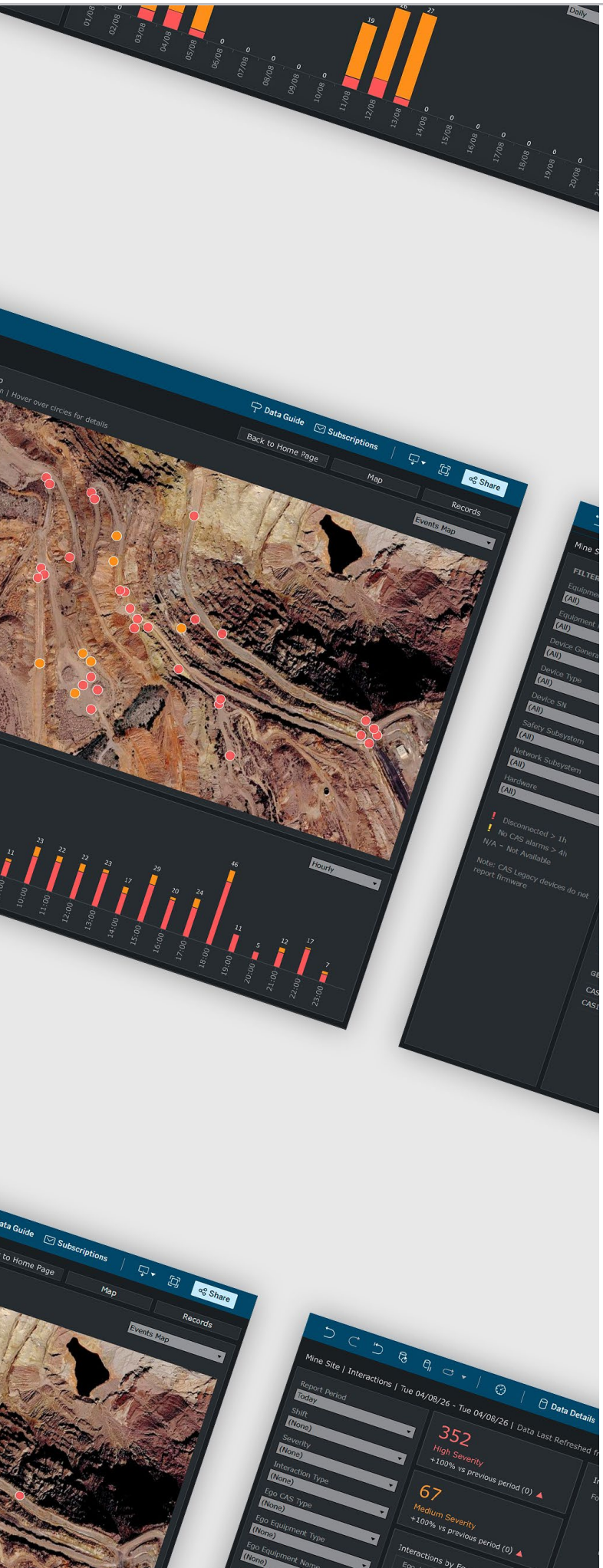
THE SOLUTION

The analytics layer for Hexagon Collision Avoidance System (CAS)

Hexagon CAS Insights brings together the what, when, and where of every CAS event, creating a single view across CAS units. Accessible from anywhere, it is a secure, Hexagon-managed, ISO-compliant web application with SSO authentication. It’s built to work with CAS data without requiring customers to develop a separate data integration for analysis.

In short, it closes the gap between data-rich CAS fleets and the answers safety teams need to make informed decisions.





WHY IT MATTERS

Fleet-wide visibility that safety teams can act on

CAS Insights connects the data your CAS fleet already generates with the fleet-wide visibility safety teams need to take informed action, moving teams from reacting to individual events to understanding patterns, assessing control performance and monitoring change over time.

- **Reveal sitewide safety patterns:** Dashboards show when and where events are happening across the fleet, so teams can identify hotspots and make evidence-based safety decisions.
- **Identify improvements for safety outcomes:** Event data supports targeted interventions such as speed restrictions, signage or route changes to improve alignment to safety controls.
- **Enhance CAS configuration decisions with data:** Filtering and up-to-date event data help teams review configurations to meet safety controls in a dynamic environment.
- **Keep CAS coverage reliable:** Device and firmware visibility helps teams confirm devices are connected and current across the fleet, without device-by-device inspection.

HOW IT WORKS

From data to decision, fleet-wide

Each capability is built around one job: turning the data generated by a CAS-equipped fleet into a fleet-wide view teams can act on.



Safety performance dashboards

Visualise and filter interaction and overspeed events across the fleet to support configuration reviews, interaction event analysis, and safety performance tracking.



Fleet and device visibility

Monitor CAS device connectivity, firmware status, and system health across the entire fleet from one place.



Mixed fleet, native to CAS

Brings CAS 10 and earlier generation legacy CAS events into one view. Built to work with Hexagon CAS data with no separate data mapping.



Secure, managed access

A Hexagon-managed, ISO-compliant web application with SSO authentication, accessible anywhere.

Easy filtering of light vehicle to light vehicle interactions under 20 km/h shows a potential for up to 20% reduction in fleet-wide alarms while still maintaining adherence to safety controls.

FLEET COVERAGE

Analytics across your CAS-equipped fleet

CAS Insights provides fleet-wide analytics across all machine categories covered by a site's CAS deployment, including both heavy and light vehicles. It enables operators, supervisors, and executives to understand safety performance and interaction trends across the entire fleet, delivering a comprehensive view of the operational experience.

Complementary Hexagon solutions



Hexagon Collision Avoidance System (CAS)

The source system. CAS Insights is the analytics layer for the interaction, overspeed, and device data CAS generates.



Hexagon Vehicle Intervention System (VIS)

Extends CAS Level 8 advisory controls to Level 9 intervention; its event data can be reviewed alongside CAS.



Hexagon 4D Radar

Adds slope and hazard detection data that complements fleet-wide collision-risk visibility.



Hexagon Personal Alert

Extends interaction visibility to personnel through proximity detection.

About Hexagon:

Hexagon is the global leader in measurement technologies. We provide the confidence that vital industries rely on to build, navigate, and innovate. From microns to Mars, our solutions ensure productivity, quality, and sustainability in everything from manufacturing and construction to mining and autonomous systems. Hexagon's Mining Division connects measurement and autonomy across surface and underground operations, pushing the boundaries of autonomous technology and data insights to help customers optimise resources and move material safely.

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