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Remote Sensor Management

G-Cloud 15 Service Definition

Lot 1a: Infrastructure as a Service (IaaS) and Platform as a Service (PaaS)

Remote Sensor Management

Service Description

Rowden's secure, resilient cloud service manages distributed sensors and edge devices for emergency response. It enables rapid onboarding, continuous telemetry ingestion, automated alerting, and map-based situational awareness. Supports multi-network connectivity, remote configuration, encrypted data transport, and seamless integration with TAK, CAD, and control-room platforms.

Features

- Continuous telemetry ingestion with configurable refresh for control room monitoring.
- Live asset inventory tracking sensors, gateways, devices through full lifecycle.
- Operational dashboards map sensor locations, values, and refresh in real-time.
- Configurable thresholds trigger multi-channel alerts with escalation and composite logic.
- Incident-centric dashboards integrate sensors, mapping, video, tracking, staff, and C2.
- Historical sensor data supports playback, trend analysis, investigation, and export.
- Rule-based automation provides early warnings, recommendations, and modelling integration support.
- Standards-based APIs integrate TAK, CAD, third-party data, and national systems.
- Role-based access secures users, devices, data, with auditing and encryption.