

Asset Monitoring and Analytics

- Points / Switches
- Track Circuits
- Grade Crossings
- Signalling Systems
- Interlockings
- Axle Counters

Condition and Event Logging

Enabling predictive and reactive maintenance to create a safer and more efficient rail network

Email info@railcomm.com or phone +1 585-377-3360



RAILCOMM
Automated Rail Solutions

Condition and Event Logging by Tracsis

- Over 20,000 loggers installed in the UK, USA, Australia, Hong Kong and Singapore
- 30,000 Assets monitored
- 5 Million events recorded
- 19,000 Alarms raised
- Network Rail approved hardware
- Cloud based analytics software including predictive capability and graphical replay
- User editable alarms ensure engineers gain the maximum value
- Realize financial savings by catching issues early



Asset Monitoring and Analytics

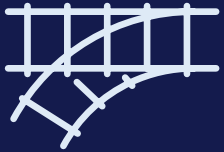


RAILCOMM
Automated Rail Solutions

SA380 Logger Series – Proven technology

Developed by rail signalling experts, RailComm provide global coverage including the USA, Australia, Hong Kong and Singapore

Points/ Switches



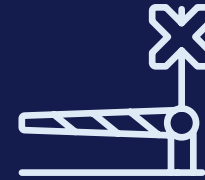
- Remote monitoring of point and switch condition using non-intrusive transducers connected to data loggers
- RailComm provide a turn-key solution for remote condition monitoring with the SA380TX series of data loggers and associated Centrix data platform. Automated alerts are fed from AI derived algorithms to provide real-time feedback and alarms to maintenance engineers
- Enables the prediction and prevention of faults within points and switches by monitoring critical components including motors, locking mechanisms and detection relays. Supports input from other data sources if they are required/available

Train Detection Systems



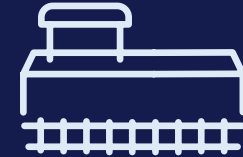
- Remote condition monitoring of Track Circuits and Axle Counters using transducers and sensors connected to data loggers
- Enables the prediction, detection and prevention of faults including damaged or degraded track circuits (including leaf fall contamination) by monitoring current feeds and other data sources
- RailComm provide a turn-key solution for remote condition monitoring with the SA380TX series of data loggers and Centrix data platform. Automated alerts are fed from AI derived algorithms to provide real-time feedback and alerts to maintenance engineers

Grade Crossings



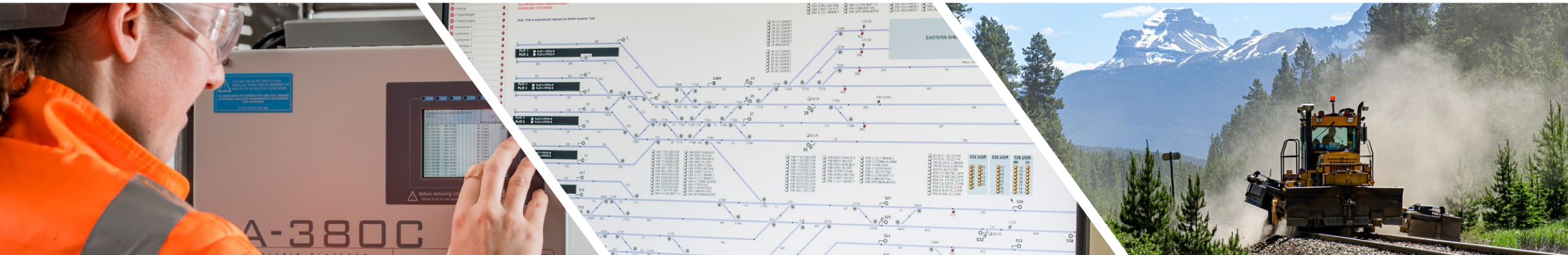
- RailComm have unrivaled experience in monitoring Grade Crossings in the UK and abroad using SA380 series data loggers connected to our Centrix database system
- RailComm loggers are capable of monitoring modern digital grade crossings including EbiGate and VHLCs
- Facilitates remote monitoring and investigation of incidents at grade crossings by the replay of data sequences (including graphics). Data can be used for judicial purposes as well as providing performance data

Interlockings



- Remote monitoring of signal interlockings provides granular data for real-world, real-time network behaviour at the most complicated junctions, stations and network locations
- Enables the prediction and prevention of faults as well as the graphical replay of events via the Centrix system. Facilitates investigations of repeat failures, allegations and incidents relating to the signaling system and also to the Driver/Signal Interface and Road User/Rail interfaces

How We Work



Hardware

Our team of engineers and embedded software developers design and build hardware to satisfy the stringent standards of Network Rail, and other infrastructure owners. Updates to firmware are provided as standard to ensure maximum value is realized from our equipment. Working with the leading providers of signaling systems ensures that RailComm are continually expanding the base of assets we can monitor to keep engineers up to date with their remote monitoring requirements.

Software

RailComm employs an Agile approach to software development to ensure that our Centrix data analytics platform is constantly evolving to meet the real-world requirements of rail professionals. In-built algorithms monitor data feeds in real-time and identify changes in behaviour and performance of assets to provide intelligent alarms to engineers. Graphical replay solutions for inter-lockings and grade crossings mean that incidents can be investigated remotely and replayed to assist in locating the root cause.

Interventions

As alarms are triggered users are able to undertake preventative maintenance before an issue escalates and causes delays on the network. Identifying and alerting users to intermittent failures means that the capabilities of the system add significant value when compared to undertaking in-person scheduled maintenance. Reduced delays and fewer significant maintenance problems ensure that costs are reduced and resources can be intelligently deployed to where they are needed most.

Asset Monitoring and Analytics

Software-based rail automation solutions

Talk to our team to discuss your project or for a demonstration of our capabilities



+1 585-377-3360



info@railcomm.com



1387 Fairport Rd Building 900,
Fairport, NY 14450 USA

Asset Monitoring and Analytics



RAILCOMM
Automated Rail Solutions