

# RAILCOMM INSIGHT™

## How much does a train delay cost your business?

*What if you could identify and prevent failures leading to delays before they occurred?*

Remote condition monitoring improves the performance and availability of your wayside assets by enabling you to proactively discover and resolve issues *before they occur*. Benefits include lower maintenance costs, fewer unplanned delays, and greater customer satisfaction. RailComm's smart monitoring and analytics platform – Insight – uses a combination of hardware and cloud-based analytics software to monitor your wayside assets and alerts you to potential failures before they happen.

### RailComm Insight for mainline switches

Insight for mainline switches is RailComm's premier application on our new analytics platform. Insight for mainline switches uses non-intrusive sensors that are easy to install. When the switch is thrown, the sensors report the current draw to the Insight analytics platform. The current draw waveform provides a fingerprint indicating the condition of both the switch machine and the turnout. RailComm Insight for mainline switches will decrease delays and maintenance costs – positively impacting your bottom line.



### Why RailComm?

RailComm is committed to helping freight and passenger railroads improve safety and reduce operating costs due to delays incurred by unexpected equipment malfunctions. From single mainline switches to full interlocking equipment, our platform roadmap supports critical assets that are key to keeping your trains moving safely and on time.

## REAL BENEFITS THAT WILL POSITIVELY IMPACT YOUR BOTTOM LINE



**Reduce operational costs** that result from unplanned train delays.

Malfunction of mainline switches and other wayside infrastructure affects the entire rail system, costing millions of dollars annually on unplanned delays and repairs.



**Improve customer satisfaction** by meeting delivery times and on-time arrivals.

Keep your trains moving and reduce the social and economic impact of train delays.



**Optimize maintenance** and know when maintenance should be performed.

Predictive analytics and remote monitoring allow for maintenance based on condition, saving untimely and costly visits to the site.

Maintenance teams can be proactive rather than reactive, which improves labor utilization and reduces overtime costs.



Perform **post-maintenance checks** and evaluate the impact of construction.

Routine maintenance and track construction often introduce the next switch failure that goes undetected until failure occurs for no apparent reason.

After work is performed, crews can review the pre- and post-maintenance waveform to compare and assess performance.



**Insure reliability of assets** and understand root-cause of switch malfunction.

Switches are susceptible to failure from many different causes: obstructions, mechanical component wear, motor or battery failure, failure of the machine itself, and more.

Understand what and how these affect the reliability of your switches.

**railcomminsight™**

# RailComm Insight Dashboard

RailComm Insight is a comprehensive platform that transforms traditional remote condition monitoring to a smart decision support tool for effective preventive and proactive condition-based maintenance.

Data collected from the switch machine is transmitted to the RailComm Cloud where it is augmented with weather and other information, and automatically analyzed in near real-time.

Insight's intuitive user interface provides high-level and detailed views that are simultaneously updated to highlight developing problems.

## About RailComm

RailComm is an industry leader of software-based rail automation solutions. With a wide base of global installations, we offer innovative software centric solutions that monitor, analyze, and control key assets of the rail infrastructure for both freight and passenger/transit railroads, including rail-served industrials, intermodal terminals, and ports. Our solutions include: yard automation, computer-aided dispatching, and predictive analytics for condition based maintenance.

As other industries have done in the past, the railroad industry is rapidly moving to automation and data/information as core competitive differentiators. RailComm, with our cloud-based (SaaS) and internet-of-things (IoT) solutions, is uniquely positioned to lead this trend.

Our customers have a proven record of achieving both increased efficiency and safety, two of the primary drivers of the industry. With the ability to monitor, analyze, and automate rail assets, our customers can optimize their resources more effectively and achieve both significant increases in revenue and reduction in costs.



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Contact us to request a demo.