

Tracking Wheelsets through the Supply Chain

The Challenge

Lucchini Unipart Rail (LUR) undertakes the overhaul and refurbishment of all types of bogies and wheelsets for the rail industry. With a capacity to overhaul 8500 wheelsets per year, customers include train manufacturers, passenger operators and freight operators. New wheels and axles are also produced from in house production providing a complete service.

The traceability of high value and safety critical assets was a problem for LUR and crucially their customers, with some wheelsets going missing for months.

Instrumentel were asked to help track the wheelset locations throughout their life with added detail during the overhaul process. Knowing where the wheelsets are at any given time will help to reduce both time and costs within the maintenance teams schedule.

The solution needed to be both cost effective and add real value to LUR.

The Solution

Instrumentel developed an Asset Tracking solution that was fine-tuned to LUR's customers' requirements. Wheelsets are tagged at the LUR facility to capture key data on their health, stage in the overhaul process geographical location. The solution was founded on a number of key principles:

- Geolocation of wheelsets captured
- Equipment supplied to tag and trace wheelsets for a ruggedised environment
- All activity monitored via Instrumentel's Paradigm Insight web portal
- Capturing key data during overhaul, shipping and stock management and providing automated reports
- Improved material availability increasing rolling stock availability.



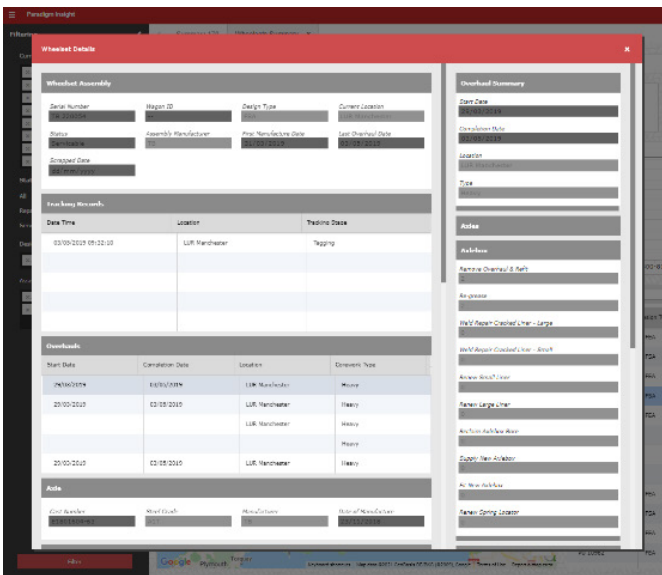
Why choose Instrumentel?

Instrumentel are experts in RFID, using the technology in patented and innovative ways to improve the management of assets.

Our team of experts can tailor our technology to meet your requirements.

Our solutions can be used to:

- Automate manual activity
- Reduce errors in processes
- Full visibility of supply chain operations
- Audit trail for compliance to railway standards



The LUR Paradigm Insight interface

The Result

LUR use Instrumentel's RFID asset management solution to capture data throughout the overhaul and supply of wheelsets.

LUR have access to location, condition, status and associated overhaul information via the Paradigm Insight portal. Information is displayed in an easy to read and understandable format, ensuring availability of assets 7 days a week. Reports will be generated, and alerts sent when abnormal activity is identified.

Benefits delivered include:

- Reduction in lost wheelsets
- Improved productivity of overhaul team
- Increased availability and visibility of stock throughout supply chain
- All data stored in an easy to interpret and understand web portal