

PROJECT

# Intelligent Asset Management (iAM)

CLIENT

Various

## Overview

Railway assets can be defined at multiple levels from whole fleets or contracts down to specific pieces of equipment installed on a vehicle or as infrastructure. Each of these assets has a configuration that must be managed to ensure effective inventory tracking, safety and legal compliance and effective maintenance as well as many other benefits, but manual management of this configuration is a labour intensive and error prone endeavour.

Typical configuration parameters might include:

- Modification status
- Software/Firmware versions
- Customer/contract information
- Warranty information
- Location (including dynamic location for moving assets such as vehicles and equipment)
- Maintenance/overhaul status

## Deliverables

Automatic reporting of configuration parameters for RCM connected equipment where devices support it

- Serial Numbers
- Location (GPS coordinates)
- Discovery and reporting of connections to other equipment including parent and child assets e.g. a HVAC module may report the vehicle it is currently installed in

- Software/Firmware versions
- Semi-automated reporting of parameters where automatic reporting is not available
- Maintenance/overhaul status
- Warranty information
- Modification status



# Solutions

Wabtec Faiveley UK have developed a system that automates much of this process for railway assets and allows seamless integration with their RCM solutions and other WabtecONE products to provide users with the information that they need to effectively support operations.

**User friendly interfaces are provided on both mobile and web application platforms to deliver the following functionality;**

- Administration
- Dashboards and visualisation for current and historical data

- Input forms for collecting asset related information that is not reported automatically
- Data exporting functionality for offline analysis if required
- Collection of data from operatives in the field
- Supports reading asset data from RFID and NFC tags
- Look up metadata and history for a given asset, e.g. is this asset still in warranty?
- Notifications and alerts (email available).

# Benefits

**Web application provides:**

- Integration with a wide array of external systems and data sources:
- ERP systems
- Work Tracking Solutions

- CSV files
- Customer bespoke applications that provide API access
- Network Rail Data feeds and other streaming data feeds

# iAM Application Architecture

