



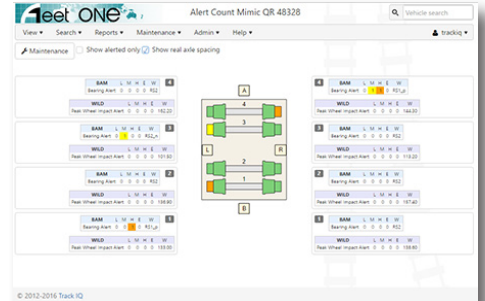
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OnePASS

The entry level to an integrated wayside monitoring site

Automated vehicle condition reporting sets the standard for ensuring minimal downtime of vehicles – Trackside Intelligence provides technically advanced instrumentation for the dynamic checking of rolling wheel parameters with OnePASS.

During vehicle pass-by data is collected and analysed and then forwarded to the user in alert, tabular, graphical and historical formats. Key parameters are checked including bearing condition, wheel rolling surface, load imbalance and gross vehicle weight with fore/aft and left/right measurements.

This advanced integrated monitor utilises the field proven RailBAM – bearing acoustic monitor and the

second generation WCM – wheel condition monitor. These systems installed in parallel provide a high level of accuracy in detecting and monitoring wheel surface condition and bearing defects.

Monitoring wheel and bearing condition in a dynamic environment ensures that early defects are detected and that maintenance is able to be systematically planned – providing maximum asset performance and security.

Using advanced technologies OnePASS delivers the optimum in vehicle monitoring solutions. Additional sensor systems (wheel profile, angle of attack, etc.) can be added.

OnePASS system benefits include:

Bearing fault alerts

Rolling wheel surface condition reporting

Weight measurement - fore/aft, left/right and gross

Wheel diameter measurement

Axle count

Automated system health checks

Mixed traffic environment

Minimal traffic interruption for installation

Ability to issue alerts to system stakeholders

Early and consistent fault detection

Provides fleet-wide statistical data



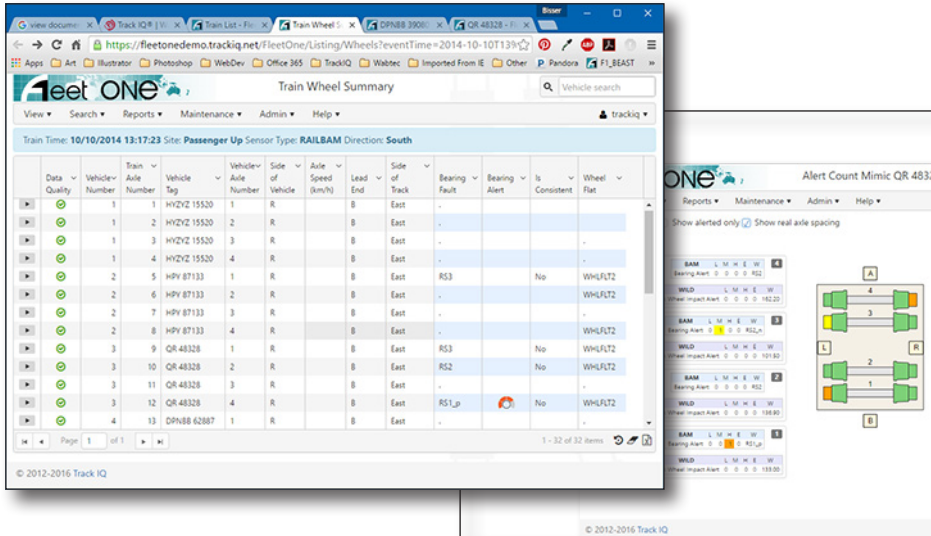
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The OnePASS data is presented in the wayside monitoring system web interface FleetONE, enabling users throughout your enterprise to seamlessly receive vehicle details in “real time” at their fixed or mobile workstations.

User configured alerts allows the system administrator to adapt reports to the specific needs of stakeholders.

OnePASS General Specifications

Capacity	Train length – unlimited
RF Tags	Suitable for RF tagged vehicles (and visual imaging or virtual tagging reports)
Alarms	User configurable, delivered via SMS, email or message to Central Train Control
Track Environment	Suitable for single/bi-directional track and dual track
Fleet	Mixed fleet – heavy haul, inter-modal and passenger
Bearing Type	Package, and Axle Box and Passenger
Environmental	Rail hardware equipment suitable for arctic, tropical and desert environment
	Rail hardware IP67 rated
Data Base	Supports multiple users/different user privileges able to be applied
General	DC/AC power compatible, TCP/IP data transfer, Suitable for electrified environment, all hardware isolated from the rail
Compliance	Outputs in compliance with AAR rules, ARTC standards and CE compliant – EN 50125