

SmartWash

by Unipart Rail

An intelligent Train Wash Management System



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RAIL

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MEASURING SUCCESS

SERVING THE WORLD'S RAILWAYS

SmartWash by Unipart Rail is an intelligent Train Wash System. Designed using Instrumentel's transformational remote monitoring technology, this unique solution will reduce costs and environmental impact when installed within a train depot.

Trains are very frequently washed when they do not need to be, which wastes water, energy and money.

Our SmartWash solution will eliminate this waste through the implementation of an RFID based system which will recognise when a train does not need to be washed. The system will provide real time access to cleaning frequency data at each depot, across the fleet and against any vehicle. It will also allow customers to remotely configure the washing schedules of trains.



Benefits include:

- Remote monitoring of train or tram wash frequency against each vehicle and at any depot
- Automated activation of the depot's wash facilities in accordance with customer-derived cleaning frequencies
- Pan-fleet basis or against specific vehicles - to mitigate excess cleaning and assess trial performance against differing cleaning periodicities
- Real time internet-based access to cleaning frequency data at each depot



1. RFID TAG fitted to the end of each vehicle.
2. RFID TAG on each vehicle activated at RFID READER
3. Captured in Instrumentel Diagnostic Hub and transmitted to TWMS Portal
4. Cloud-based TWMS PORTAL recognises last wash cycle and determines whether TRAIN WASH operates based on customer defined cleaning periodicity (by vehicle or fleet)
5. TREADLE switch overridden when tram should not be washed, otherwise TREADLE sends signal to enable TRAIN WASH to operate as normal.



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