

# CMMS

## Complete Wayside Detector Data Solution



Data generated by wayside detection and monitoring systems is highly beneficial for prioritizing train maintenance and derailment prevention. As more systems are deployed, the management and effective use of gathered detector data becomes more challenging. Also, the correlation between data generated by different detectors provides additional opportunities to analyze and understand the condition of any individual rolling stock or the whole fleet.

Trimble® CMMS™ (Condition Monitoring Management System) software is a condition monitoring data management platform. It provides a comprehensive unified web-based interface to all wayside data that has been produced. Data from all types of wayside detectors including systems provided by Trimble and systems from other suppliers can be seamlessly integrated within CMMS. Current system data streams that can be integrated include wheel profile and brake shoe measurements, wheel impact detectors, hot bearing detectors, and acoustic bearing detectors.

CMMS is a single point of access to all condition monitoring data with the advantage of a customizable search

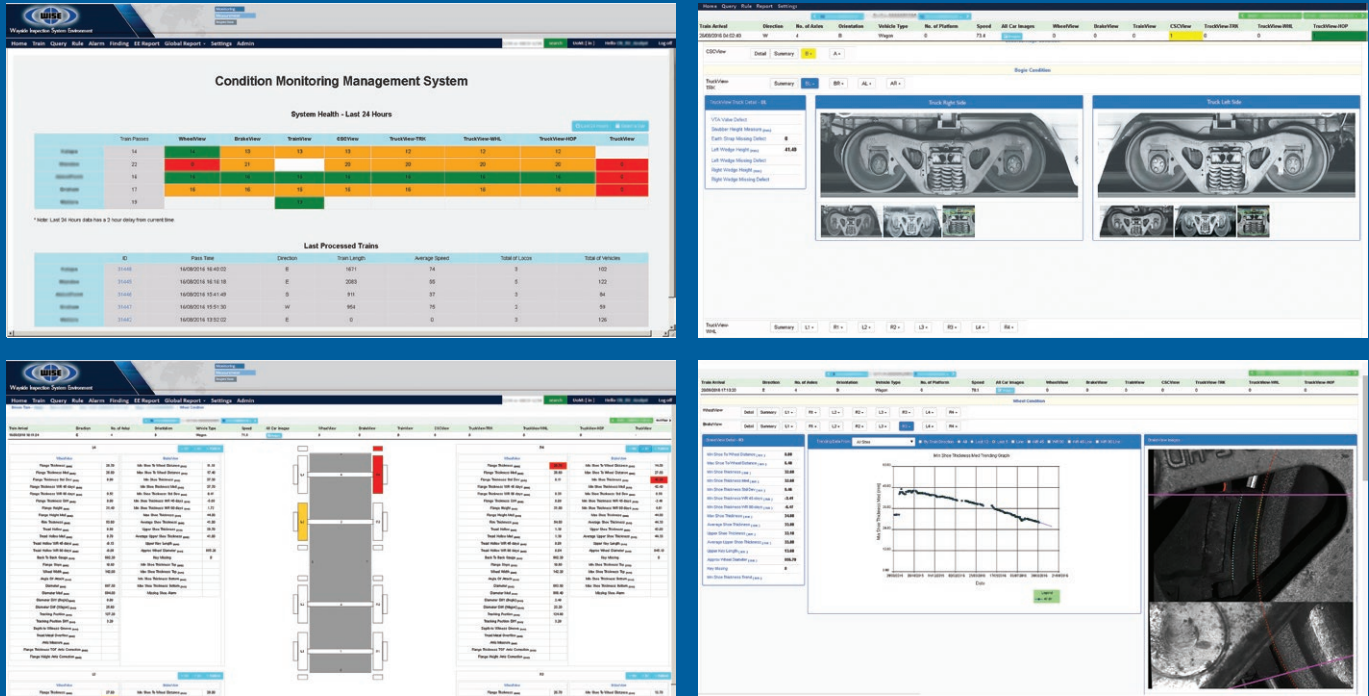
functionality across the entire database. CMMS consolidates all vehicle exceptions across installed monitoring systems to facilitate the analysis and efficient planning of required maintenance activities for a train.

CMMS also integrates to SAP and other enterprise resource planning systems to create maintenance notifications. It is based on a SQL backend that houses all the data from all detector systems.



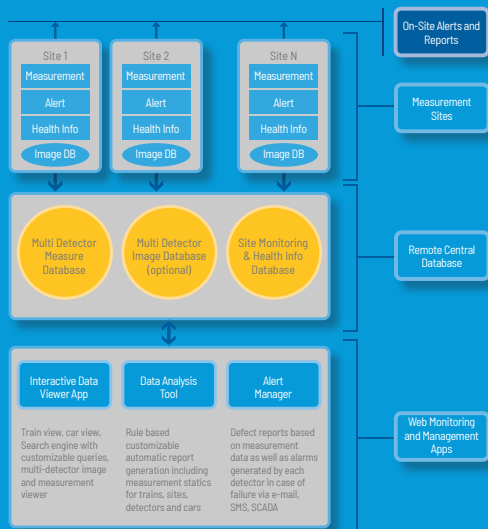
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### Support for Complicated Composite Queries

Immediate defect reporting using e-mail, SMS, etc.



Specifications subject to change without notice.

### Software Features

- ▶ **Detector status:** Status display for real time indication of wayside detector health.
- ▶ **Train listing:** Trains listed by detector site and number of alarms.
- ▶ **Wagon history:** Historical data and images for all wagon history.
- ▶ **Query generator:** Generic query generation tool capable of simple through to complex composite queries.
- ▶ **Alert generator:** User customizable alarming tool based on predefined conditions such as trended or absolute measurements.
- ▶ **Reporting functionality:** Customizable reports for consist alarm notifications.

### General Features

- ▶ Capable of importing all wayside detector data.
- ▶ Can be hosted either within a customer IT infrastructure or in the cloud.
- ▶ Integration with Windows Active Directory to manage user access control.
- ▶ Can be integrated with enterprise resource planning software (e.g. SAP, Maximo etc.).
- ▶ Automated defect reporting via email, SMS, SNMP etc.

**NORTH AMERICA**  
10368 Westmoor Dr  
Westminster, CO 80021  
USA  
+1-716-9895-981 Phone

**NORTH AMERICA**  
600 Pinnacle Court  
Norcross, GA 30071  
USA  
+1-678-597-3156 Phone

**EUROPE**  
Fenward House, Arkle Road  
Sandyford, Dublin 18  
**IRELAND**  
+353-1-539-8700 Phone  
+44-203-290-9350 Phone

**AUSTRALASIA**  
Level 1, 23 Peel St  
Adelaide, SA 5000  
**AUSTRALIA**  
+61-435-844-409 Phone

**EMAIL & WEBSITE**  
rail@trimble.com  
rail.trimble.com

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