



We make
highways
talk™

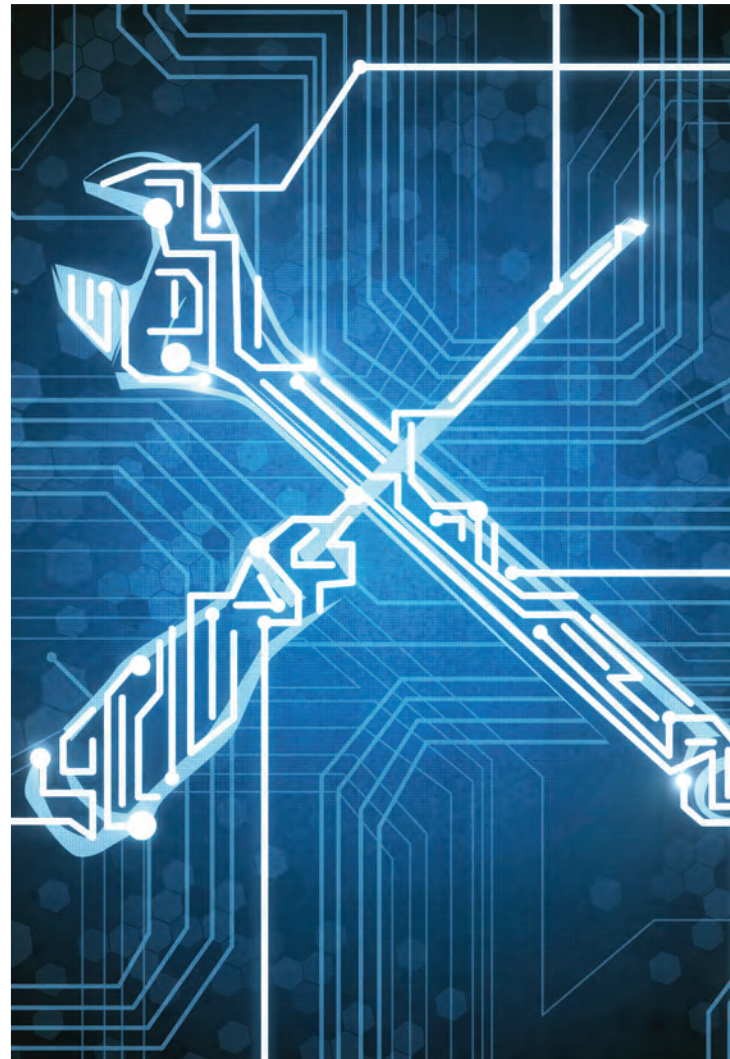
iMMS™

Intelligent Maintenance Management Service

IRD's Intelligent Maintenance Management Service (iMMS) provides a web-based interface for monitoring maintenance service and equipment status.

iMMS is made up of the following components:

- **User Interface:** The web-based UI presents geographical maps, site layouts and tabular representations to allow the operator to view the complete system in overview, and 'drill down' as necessary to investigate issues or problems. System components can be grouped in a variety of ways, so for example an operator can create a page that shows all of the cameras in the system. A separate administration interface supports modifying the system configuration. User actions are controlled by role-based access controls.
- **Monitoring:** The monitoring subsystem provides several ways to monitor the variety of hardware and software elements that make up the ITS: server hardware and software, desktop hardware and application software, roadside electronics, embedded firmware, cameras, sensors and network elements. System components are grouped hierarchically to support operator navigation.
- **Workforce Management:** This subsystem provides trouble ticket creation and management, workforce notification, job scheduling and tracking, and maintenance scheduling and tracking for scheduled and preventive maintenance.
- **Inventory:** The inventory subsystem provides equipment tracking by location, serial number and type; repair history, sparing and maintenance scheduling.
- **History and Reporting:** This subsystem provides archiving of event and log information, as well as real-time and historical reports across a range of system performance parameters.



iMMS is powerful tool enabling IRD and its partners to collaborate in the delivery of high quality, high value maintenance services to the end customer. iMMS enables the maintenance partner to enhance service offerings at the same time as it reduces wasted effort and cost by providing up-to-date equipment status and remote diagnostic capabilities.

iMMS provides three views of each system:

1. System-wide

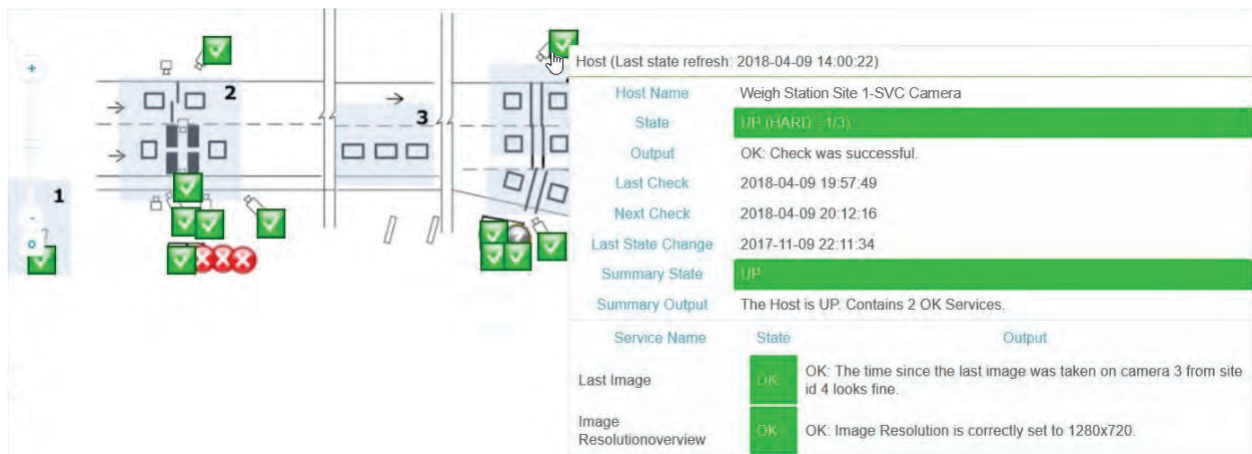
- Shows all sites in the system (map view)
- Basic site status indicated with green/yellow/red
- Supports navigation to individual sites

2. Site-wide

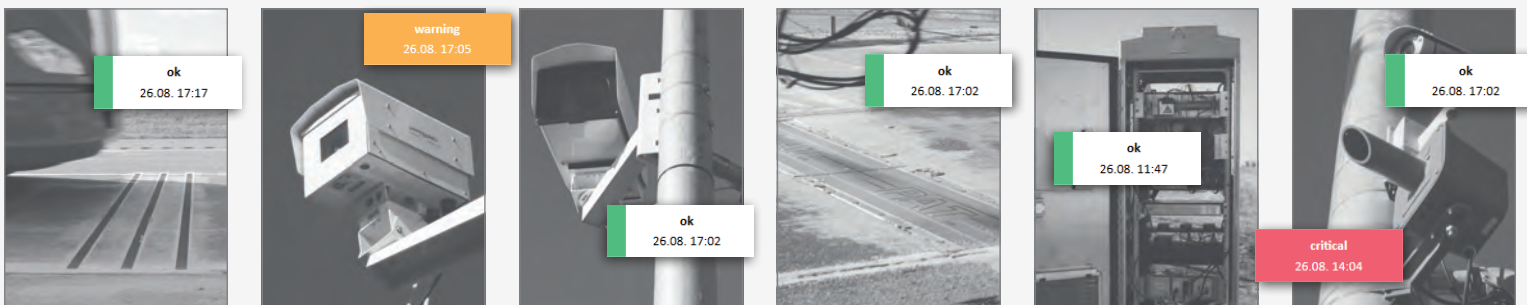
- Provides a tabular and graphical view of an individual site (e.g. data collection, weigh station, etc.). These displays provide 'mouse over' displays of equipment summary status information
- Supports navigation to all supported equipment at the site.

3. Equipment/Sensor Level

- Displays the status of each monitored system or sensor
- Provides access to the operating history of the system or sensor
- Provides the ability to control equipment or sensor monitoring – e.g. scheduling downtime when a camera is being taken out of service for repair or replacement.



Site-wide view with 'mouse over' host information displayed for a side-view camera



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