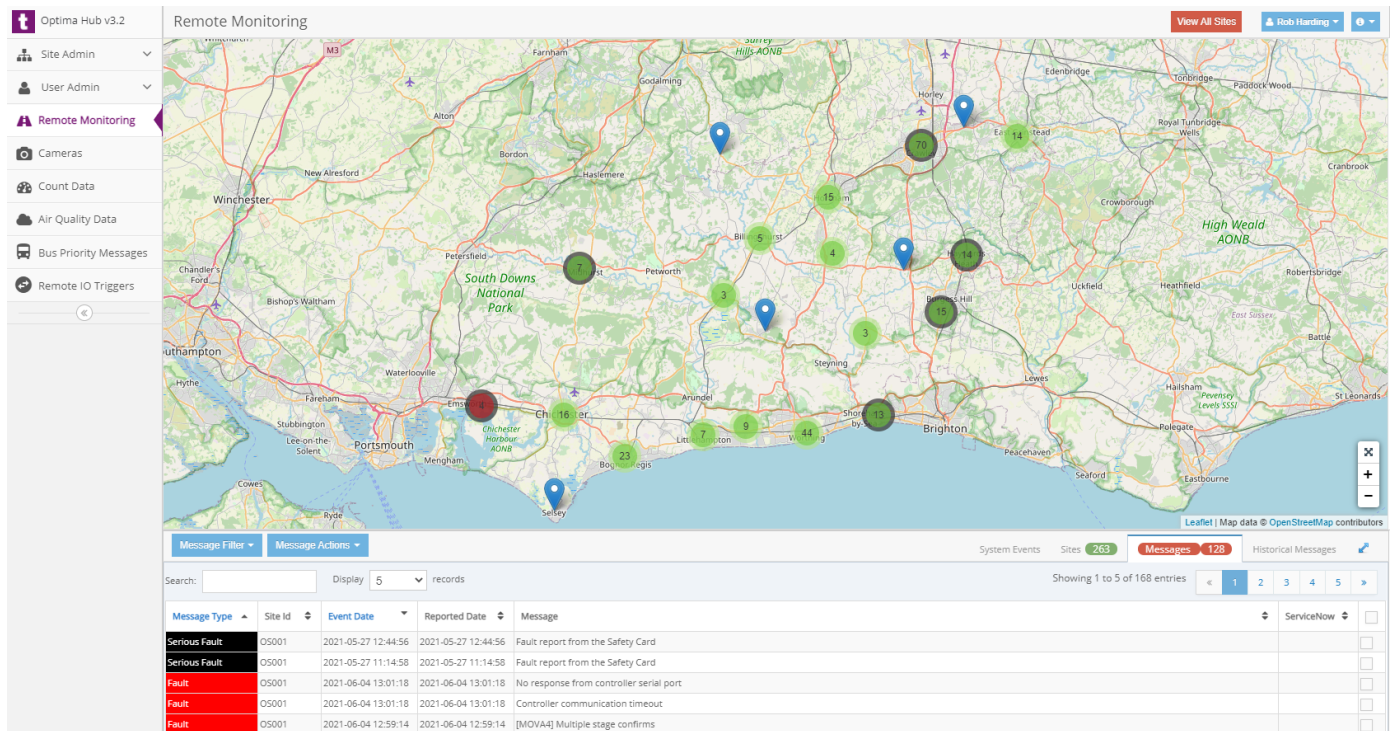


Data Sheet: Telent—Optima Hub—Remote Monitoring



Message Type	Site Id	Event Date	Reported Date	Message	ServiceNow
Serious Fault	OS001	2021-05-27 12:44:56	2021-05-27 12:44:56	Fault report from the Safety Card	<input type="checkbox"/>
Serious Fault	OS001	2021-05-27 11:14:58	2021-05-27 11:14:58	Fault report from the Safety Card	<input type="checkbox"/>
Fault	OS001	2021-06-04 13:01:18	2021-06-04 13:01:18	No response from controller serial port	<input type="checkbox"/>
Fault	OS001	2021-06-04 13:01:18	2021-06-04 13:01:18	Controller communication timeout	<input type="checkbox"/>
Fault	OS001	2021-06-04 12:59:14	2021-06-04 12:59:14	[MOVA4] Multiple stage confirms	<input type="checkbox"/>

Optima Hub - Remote Monitoring

The Telent Optima Hub is managed and hosted by Telent. The Remote Monitoring module is capable of monitoring controllers from any manufacturer and along with the other modules within the Optima Hub (including CCTV and Air Quality) provides the insights that traffic professionals can rely on.

Overview

The Telent Optima Hub, Remote Monitoring module has evolved from a locally installed application to a widely supported web based architecture which is managed and hosted by Telent.

This architecture allows for mobile working and operational portability with access from any modern web browser on desktop, laptop or tablet devices.

The Remote Monitoring module has been designed by engineers experienced in managing and maintaining traffic control equipment, monitoring on street controllers using IP communications, via 3G/4G or ADSL, utilising the optional embedded RM software within the Optima Controller or the Optima Outstation which is capable of monitoring controllers supplied by any manufacturer.

Site Safety/Resilience

Telent understand the need for operational staff to have a clear understanding of the status of a site and most importantly the requirement to be informed should a site lose power or suffer an all out.

To support this requirement, both the Optima Traffic Signal Controller and the Optima Outstation are supplied with battery back-up. This allows a last gasp message to be received on the Optima Hub in the event of a site losing power, therefore informing the operator of this safety critical event.

Serious faults (including power failure) are reported by email and/or text message to facilitate a timely response, particularly when control rooms are unmanned.

Remote Handset Access

The RM Application enables the operator to invoke/ configure/instruct the monitored controller using handset commands (Level 2 – Non Safety Critical Commands) via an integrated GUI. This allows a remote operator to interrogate a controller and provide an initial diagnosis without the need for a site visit.

Live Data View

A near real-time view of signal and detector states along with controller mode is available for Optima controllers, giving a live indication of how a junction is performing. This can be displayed on the standard mapping or on a site drawing uploaded by the user.

Controller Web Page Access

Access to a controller’s web page interface is provided allowing a level of remote monitoring unheard of in previous generations of equipment.

For Optima controllers running v2.16 or later software and MOVA8, remote access to TRL’s MOVA web page interface is provided.

Optima Outstation

The Optima Outstation has been developed to allow controllers supplied by 3rd party manufacturers to be remotely monitored by the Optima Hub.

- Battery back-up
- 3g/GPRS/ADSL communications
- Remote access to handset port
- Re-use of existing IP comms if available

Optima Integral Remote Monitoring

Integral remote monitoring is an option available on Optima controllers consisting of an embedded software process along with a battery back-up unit.

- Battery back-up
- 3g/GPRS/ADSL communications
- Remote access to handset port
- Re-use of existing IP comms if available
- View live signal and detector data

Summary:

The Telent Optima Hub, Remote Monitoring module utilises interactive maps and a simple interface, providing users with the required level of detail needed to assess and manage the condition of their roadside assets.

Benefits:

- Hosted system—no additional IT to manage
- Works with any controller
- Last gasp message on power fail
- Text./email alerts for serious faults
- Remote handset connection
- Access to MOVA8 web interface (where available)

