

***Signalling
Products & Services***

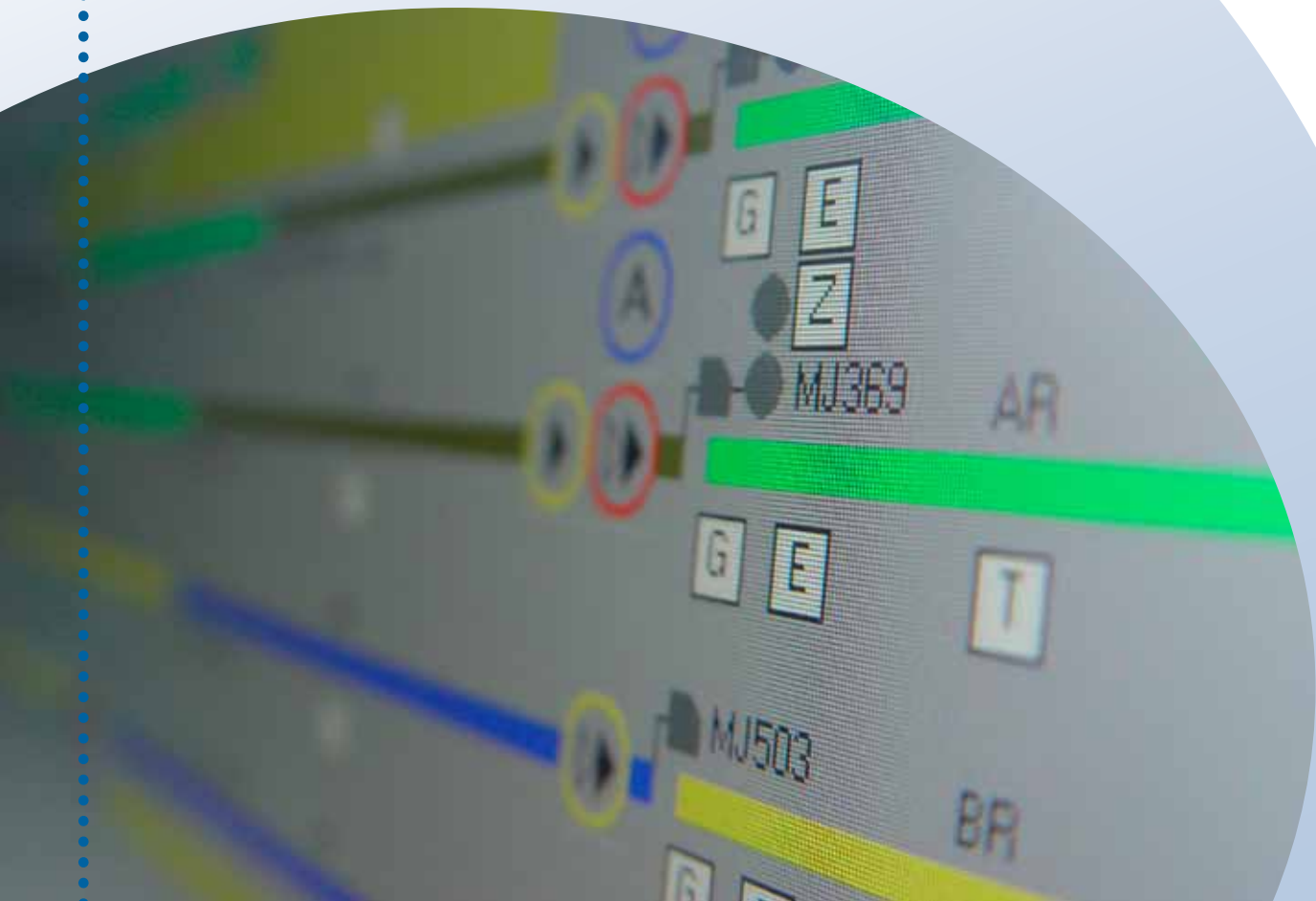
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Signalling Products & Services

The Systems & Technology division of Balfour Beatty Rail is a market leader in the provision of signalling products and services to the rail industry. Specialising in the supply of event monitoring products, systems and services, our in house design and development capabilities also enable us to offer bespoke turnkey solutions and full project management.

With many years of expertise, Balfour Beatty Rail can offer approved, cost effective solutions to monitor the performance of a variety of railway assets resulting in significant performance benefits including:

- Improved safety through helping to predict and prevent asset failures
- Reduction of renewal costs through extending asset life
- Reduction of maintenance costs
- Reduction of train delays and associated costs
- Reduction of costs associated with incident investigations



The **ALERT** Range of Data Loggers

A dedicated range of data loggers is available, each one specifically designed for the relevant application with an XML data output compatible with the UK intelligent infrastructure initiative.

- **Relay** **ALERT™**
For monitoring relay based interlockings and level crossings
- **SSI** **ALERT™**
For monitoring SSI based interlockings and level crossings
- **PCM** **ALERT™**
For monitoring point machines
- **ELD** **ALERT™**
For monitoring earth leakage on supply cables
- **TC** **ALERT™**
For monitoring AC and DC track circuits

The **ALERT** range of data loggers has been designed to be cost effective, compact, easily configured and installed on site with a user friendly interface and a choice of communication links.



Asset^{VIEW™}

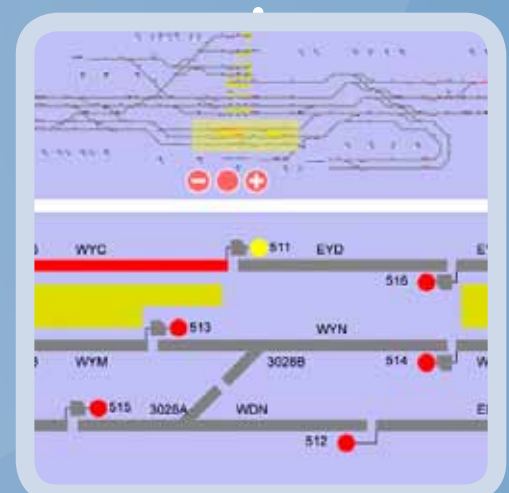
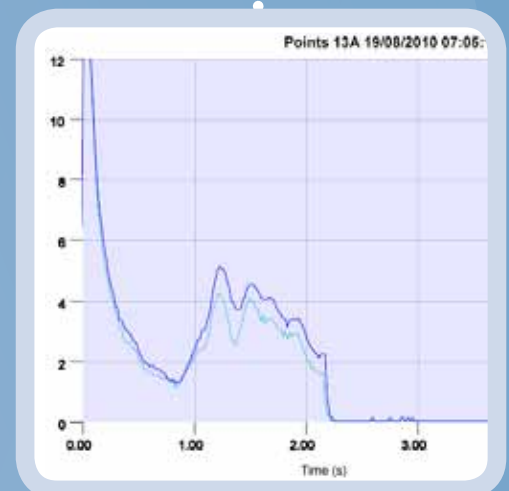
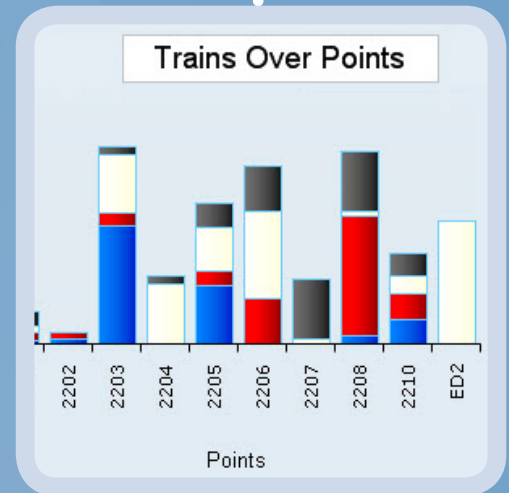
Balfour Beatty Rail also provides a password protected, web based, asset management system called **Asset^{VIEW™}**. It is compatible with most data loggers and enables the user to remotely identify trends in the recorded data to enable improvements in asset performance.

Asset^{VIEW™} analyses and processes data obtained from data loggers and event recorders and presents the real time information in a user friendly format.

From the displayed alert table, data can be analysed in tabular and graphical forms to assist in trend analysis to help improve safety and asset utilisation.

Asset^{VIEW™} is widely used to predict and prevent asset failures, reduce maintenance and also reduce costs associated with train delays and by using the track map replay facility, significant reductions can be made in the costs incurred for fault investigations.

- Web-based system with no additional software required
- Tabular and graphical displays
- Configurable alert table
- Full track map replay option available
- Ability to save and export data, graphs and track maps
- Ability to send scheduled reports by SMS, text and e-mail
- Full system support from Balfour Beatty Rail



Signalling Testing Services

By utilising its Computer Aided Testing System (CATS), Balfour Beatty Rail offers a wide range of signalling testing services to assist the signalling tester. The benefits include improved safety and labour efficiency and reduced risk of overrunning whilst offering an improved method of recording the testing for audit purposes.

Balfour Beatty Rail also has experienced signalling testers (modules 3B, 4 & 5) available to assist and strengthen the testing resource when required.

CATS has been successfully used for the following:

- External equipment simulation including test desks
- Panel and lever frame simulation
- Geographical routiner testing for all versions of Westpac and GEC/AEI



Signalling Consultancy & Services

As a leader in the UK rail market, Balfour Beatty Rail offers a wide range of specialist consultancy and on-site services to support the range of products and systems available and to meet the complex demands of modern signalling systems. These include:

- Signalling monitoring services including correlation, design and on-site installation and commissioning of signalling monitoring systems
- Change management relating to the introduction of new systems, training and support
- Performance analysis for renewal planning and junction re-design
- Bespoke product or system design and development through utilisation of experienced and innovative in house signalling, electronic, mechanical and software engineers
- Bespoke signalling training and support is offered to maximise the benefit of using Balfour Beatty Rail's technically advanced products and systems

Signalling Products & Services

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