TREsim for Signaller Training and Assessment

Simulation has become increasingly important as the complexity of signal systems increases. Hitachi has a suite of simulation tools that can be used in a wide variety of scenarios to include training and design validation to ensure that planned new and/or improved engineering works will deliver the desired system performance improvements.

TREsim for Training

TREsim is designed for simulating various signalling systems controlled from both NX panels and a number of VDU systems (WESTcad, MCS, IECC and others). It provides a realistic training environment including telephone, alarm and CCTV crossing systems.

An Assessor’s workstation allows a large range of scenarios to be developed ranging from a gentle introduction to a new system to a challenging incident for the most experienced signaller.

TREsim provides an accurate infrastructure model which uses train performance data to generate “virtual trains”. The actual interlocking data is used wherever possible to enhance fidelity and create realistic behaviours.

In addition to providing an extremely powerful and flexible training tool, TREsim can also be used to investigate and validate signalling systems and timetables. The timetables are processed from the CIF, these can be run prior to their “go live” date to ensure that they are conflict free.

TREsim Core Features

- Full fidelity simulation of any UK railway network area including full simulation of SSI, Westlock and Smartlock (and soon to be relay), type interlockings for testing/training/demoing/modelling etc purposes.
- Creation of immersive training environment simulating actual signaller workstations.
- Enables a new/revised Scheme to be created and quickly tested with a vanilla interlocking for optioneering when the design is at early GRIP stage.
- Accurate modelling of the train tables from full CIF import that allows validation of Timetable changes.
- Automatic recording of all simulation sessions.

Comprehensive Support Service

Hitachi offers a comprehensive support service for all of its products. This support is customisable to the client’s requirements but can include:

- System support management
- Performance monitoring
- Telephone support
- On-site support
- Remote access and repairs
- Spares and returns handling
- Technical investigation
- Software and data management
- Maintenance of product approval status
- Provision of training specific to requirements
- Service and recalibration of test equipment
- Obsolescence management
- Monitoring and evaluation of changes to interlocking regulations.

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Hitachi Information Control Systems Europe

Hitachi Information Control Systems Europe is a provider of software products for railway Command and Control, including simulators and automatic route setting systems. We are also the integrator of Hitachi traffic management systems for the UK and European market, working closely with Hitachi Rail Europe.

Maintaining Safety Standards
Our railway signalling and operations simulation system (TREsim) has a strong record in operator training and is used by Network Rail at signalling centres throughout the UK to train and continuously assess signallers.

Network Modelling
Simulation enables major project schemes to be evaluated before detailed design and implementation. This reduces technical, programme and operational risk. Automated data verification tools provide added assurance that safety integrity levels are consistently maintained.

Traffic Management
In addition to our role as UK systems integrator for Hitachi’s Tranista Traffic Management System, our training simulator has been developed specifically for use with multi-vendors’ products and solutions. This ensures that the current levels of high fidelity offline training facilities for railway operations are maintained during the introduction of new technology and business change does not compromise safety or performance.