

Rail. Right through



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ETCS/ERTMS CAPABILITY



ETCS/ERTMS Experience

Interfleet Technology has extensive knowledge of advanced signal and train control systems through involvement in many state of the art projects around the world. Much of this work has involved System Evaluation/Trial, System Integration, System Assurance, System Operational Planning and Project Management of ETCS/ERTMS fitment. A sample of the projects that Interfleet has been involved in includes the following:

UK Experience

- Support to Network Rail to ensure full compatibility for the introduction of the European Railway Traffic Management System (ERTMS) with the vehicles and operational requirements and constraints of the UK railway network
- Production of specifications and interface documents for the introduction of ERTMS
- Vehicle installation designs and turnkey fitment for Ansaldo STS for the first trial of ERTMS on the mainline network
- Vehicle interface designs for the UK's Docklands Light Rail, a moving block train control system
- Vehicle installation design of Automatic Train Protection (ATP) systems for Great Western and Heathrow Express train operations in the UK
- Automatic Train Operation (ATO) systems management, maintenance, assessment and reliability improvement on specific London Underground trains
- Feasibility study for the integration of the French automatic train protection system (TVM430) onto the channel tunnel shuttle locomotives
- Various investigations and feasibility studies undertaken with respect to mobile communication technologies including telecommunications support for ERTMS bearer facilities, data connectivity for train support, support for the implementation of the Global System for Mobile Communications for Railways (GSM-R) on-train voice and data equipment

European Experience

- Development of strategic implementation and interoperability requirements and roll-out strategies for ERTMS for the Danish state railways
- Planning and execution of integration tests for the introduction of the universal ERTMS interface module, known as the Specific Transmission Module (STM) for Sweden, Norway and Finland

North American Experience

- North American train control systems for New Jersey Transit, Maryland Rail Commuter and Amtrak train services
- Various North American train control projects and feasibility studies during the 1990's

South American Experience

- Support with the implementation, testing and commissioning of ERTMS Level 3 for one of the world's largest copper mines in Chile

Singapore Experience

- Development of the vehicle interface requirements for the transmission based train control systems for the Circle and North East lines in Singapore

How can we assist you?

Interfleet has 24 offices located in 10 countries on 4 continents. This enables us to harness and utilise our worldwide expertise and knowledge of advanced signal and train control systems.

Our international presence enables us to draw on our experience from involvement in many successfully established systems worldwide and apply it to current projects.

Interfleet can offer a range of services that vary from the provision of engineers to augment clients existing technical/project teams, to the provision of turnkey services that cover all aspects of the project lifecycle.

The following is a non-exhaustive list of the services that Interfleet can provide:

System evaluations

- feasibility studies
- implementation strategies
- human factors and drivers cab design concept modelling
- operational strategies
- technical assessments
- safety integrity analysis
- system concept and specification development
- train/infrastructure interface specifications
- location technology and mobile communications

Systems trials

- systems integration assessments
- design and prototyping for retro fitment
- interface to braking systems
- commissioning and testing
- user manual production
- rule book and safety case development
- train crew training
- trial management
- trial fleet fitment
- maintenance documentation
- approval management
- electro magnetic compatibility (EMC) compliance

Fleet implementation

- systems integration
- installation designs and application of human factors requirements
- training
- maintenance and operational documentation production
- project management
- procurement specifications
- supply and fitment of materials and equipment
- approvals and standards compliance management

System integration

- management of system interfaces
- system requirement capture
- testing/validation
- commissioning
- system assurance