# Consulting





# Shrewsbury – Crewe Modular Re-signalling Pilot

### **Project**

Shrewsbury – Crewe Modular Re-signalling Pilot

### Client

UK Department for Transport

### Location

London, UK

# Start Date

2008

# **End Date**

2013

#### **Duration**

60 months

### Contract Value

£29m

### Services Provided

Signalling, train control & telecoms, systems integration, programme management

### **Background**

This is a research and development scheme for the pilot of modular signalling technology on the Shrewsbury – Crewe route section.

The scheme will be delivered as a type 'B' scheme. It will demonstrate compliance with signalling engineering principles and standards or seek derogations against those standards.

Modular signalling is to provide a cost-effective means of attaining Office of Rail Regulator (ORR) efficiency targets and will achieve significant cost savings for the delivery of type B signalling renewals.

It enables simplified scheme development processes, standardised delivery methods, reduced track access requirements and fewer staging works.

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### Scope of Works

The key outputs of this project were:

- re-signalling the Shrewsbury Crewe Route
- transferring control from seven mechanical signal boxes on the route to a new control desk at the South Wales Control Centre (SWCC) in Cardiff
- renewing of five level crossings on the route to Manual Control Barrier Obstacle Detectors (MCB OD), including new barrier machines
- utilising the Fixed
   Telecommunications Network
   (FTN) as the main backbone for the signalling transmission between site locations and the control in Cardiff

- installing a new 240v power supply system
- introducing a range of new products onto railway infrastructure, including a new signalling interlocking system, train detection axle counters, Automatic Warning System (AWS) equipment, light weight signals, equipment housings all of which are designed to simplify installation processes and reduce future maintainability.

# Key Project Outputs

The main objective of the project was to provide a new cost-effective signalling renewal system for use on secondary routes.

The pilot paved the way for future schemes to use a completed Modular Signalling Handbook.

This handbook will contain the methodology of how to plan, design, install and commission future schemes to a suite of standards built up from the two pilot schemes.