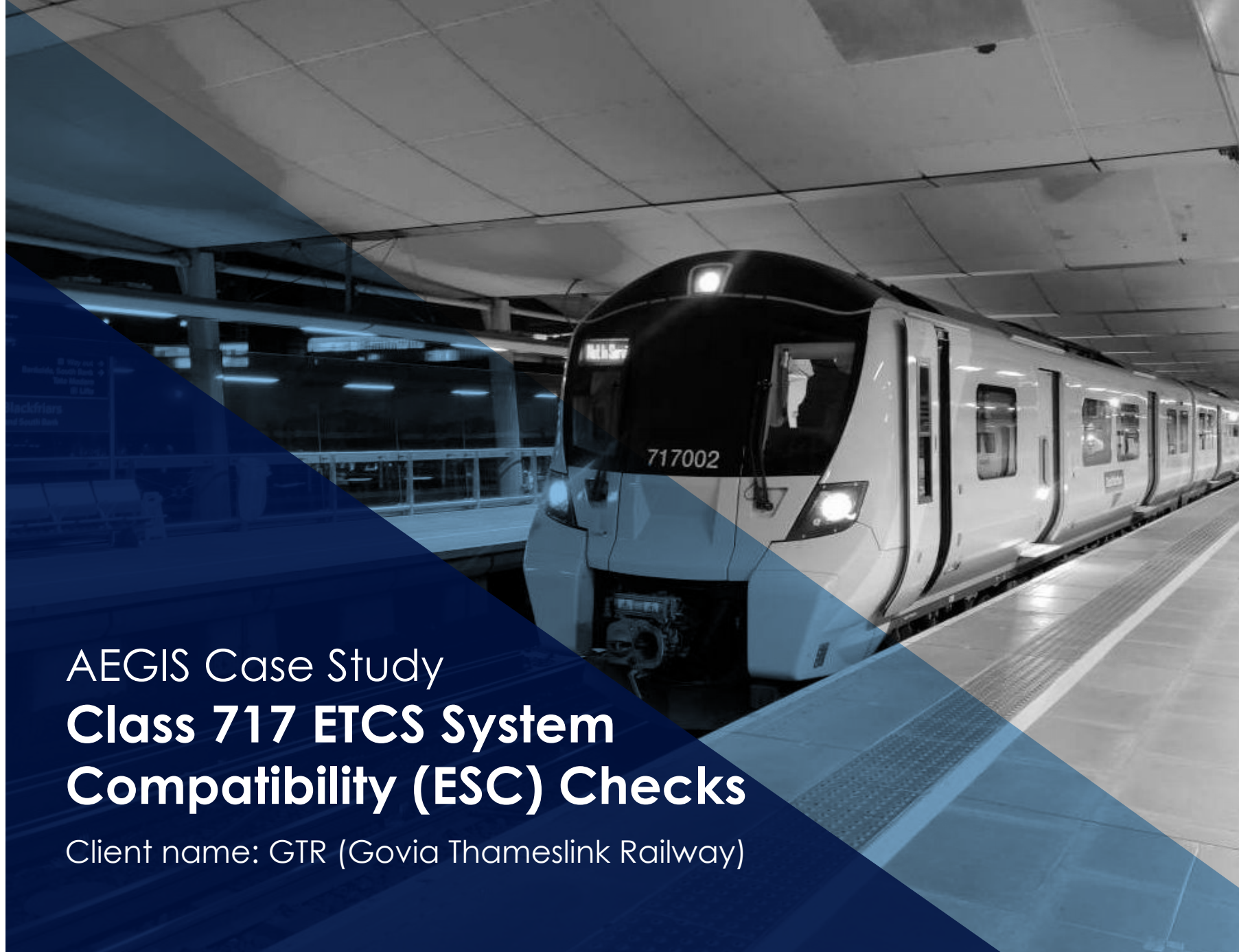




The Positive Choice



# AEGIS Case Study Class 717 ETCS System Compatibility (ESC) Checks

Client name: GTR (Govia Thameslink Railway)

## **AEGIS Certification Services**

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## SCOPE/OBJECTIVE

The system under scope is the Class 717 Desiro City (unit numbers 717001 to 717025 inclusive), which is a fleet of 25 six-car dual-voltage EMUs based on the Siemens Desiro City platform, designed and manufactured by Siemens.

The units are currently authorised for use and are in service operation, being operated by Govia Thameslink Railway (GTR) on Great Northern Services serving Moorgate.

The existing authorisation covers the use of the rolling stock subsystem and parts of the CCS subsystem including voice communication, ETCS Level NTC AWS/TPWS train protection, and data radio communication.

Network Rail is progressing a project on the East Coast Main Line (ECML) to progressively roll out ETCS between Peterborough and Kings Cross.



To align with Network Rail's roll out of ERTMS on the ECML, the scope authorisation for the Class 717 units authorisation needs to be increased to include ETCS Levels 0, 1 and 2. This requires authorisation of the Class 717 CCS subsystem to enable the additional.

ETCS functionality to be used in service operation. GTR will manage the authorisation application associated with this.

GTR, as applicant, has been responsible for completing the Class 717 ETCS System Compatibility checks required by basic parameter 4.2.17 of the CCS NTSN for the relevant technical compatibility between the on-board and trackside according to the Network Rail specifications. These checks have been completed for the Thameslink ETCS infrastructure.

## HOW WE HELPED

AAEGIS supported GTR by providing its services as ApBo of Class 717 ESC Checks against CCS NTSN following the requirements of module SB, Type Test Verification and SD Quality Management System Verification.

AEGIS also assisted the client in defining the assessment scope and delivered the Certification Plan.

The ApBo activities involved the evaluation of compliance with each requirement, and the results were communicated to the

client through the conformity checklist and regular meetings. Furthermore, a QMS audit was conducted to assess the GTR QMS.

All issues identified during the audit were appropriately resolved, demonstrating that the project was developed in accordance with the relevant standards.

## OUTCOME

Our strong relationship with GTR and our system expertise have allowed us to effectively manage the certification of the project. The collaborative effort with GTR has resulted in the issuance of SB and SD certificates, confirming that the Class 717 ESC checks are compliant with the requirements of the CCS NTSN.

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