

ERTMS: EMC Compliance

Good systems integration engineering is essential when installing new control systems and equipment into rolling stock, including ERTMS. For maximum system reliability and availability, ERTMS must be compatible with the relevant rolling stock electrical environment i.e. Electromagnetic Compatibility (EMC).

Our engineers understand the EMC environments of different rolling stock types and can provide the essential data to enable the correct design of electrical interfaces between ERTMS and other rolling stock control circuits.

Our team has the knowledge, experience and capabilities to address the EMC requirements of your ERTMS project and ensure that the installation achieves the highest performance. The services we can provide include:

- In-depth knowledge of EMC legislation/Directives
- In-depth knowledge of relevant railway industry standards
- Specification of electrical interface requirements, including where necessary undertaking on-vehicle measurements to support installation design.
- Guidance on good EMC design practices i.e. enclosure design, shielding, cable selection, filtering etc.
- Preparation of EMC technical documentation including management plans, test procedures, hazard ID and close-out.
- Management of EMC testing of either equipment or whole train.
- Management of EMC conformity requirements including preparation of EMC technical documentation.
- Undertaking safety assessment of the compatibility of the modified train with the network infrastructure i.e. longitudinal voltage calculations etc.

Contact us to discuss your ERTMS requirements in relation to EMC issues.

