



Rail

**Choose certainty.
Add value.**

European Train Control System (ETCS)

For Manufacturers, Operators, Notified bodies and Railway authorities

The European Train control system (ETCS) is the new uniform European train protection system, with which numerous European railroad lines are currently being equipped. The goal of the introduction of ETCS is to install an interoperable system and to make easy access to the European railway networks possible.

The basis for this equipment are the EC directives covering the interoperability of the Trans-European railway system. The requirements imposed for ETCS are described in the technical specification for interoperability of the structural subsystem: control-command and signalling (TSI CCS).

We understand the challenges imposed by the introduction ETCS from the viewpoint of the manufacturer and operator. Our experts have gathered many years of experience in ETCS projects over the duration of numerous national and international projects.

Additional to the ETCS scope, TÜV SÜD Rail offers founded knowledge within the scope of all structural subsystem and in relation to technical specifications for interoperability (e.g. rolling stock-freight waggons, operation, rolling stock-noise, safety in railway tunnels). We are thus in the position to offer full single-handed assessment coverage.



Rail



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We examine, assess, certify and provide support via our experts in the following disciplines:

- Safety assessment in accordance with EN 50126, EN 50128, EN 50129, etc.
- Assessment of trackside and onboard, ETCS interoperability constituents
- Assessment of specific ETCS applications

Conformity assessment:

Activities within the conformity evaluation scope are implemented in co-operation with the notified body: RAILCERT (subsidiary) or as associated partners with EISENBAHN-CERT:

- Evaluation of the conformity of interoperability constituents of the sub system CCS, e.g. RBC, JRU
- EC verification of the subsystem CCS (trackside and onboard)

Technical support:

- Support of the manufacturers and operators during planning and implementation in the context of certification and acceptance processes
- Support for requirements management and the verification for conformity and safety of the ETCS constituents and applications
- Training in relation to ETCS

Contact persons:

TÜV SÜD Rail GmbH
Sven Nowak
Tel.: +49 531 3802 324
Fax: +49 531 3802 396
E-Mail: sven.nowak@tuev-sued.de

TÜV SÜD Rail GmbH
Hendrik Harms
Tel.: +49 531 3802 391
Fax: +49 531 3802 396
E-Mail: hendrik.harms@tuev-sued.de

TÜV SÜD Rail GmbH
Richard-Wagner-Str. 1 • 38106 Braunschweig • Germany