



Certification, track-train integration systems and optimization of transport systems

Within just a few decades, ERTMS will be operational on much of the infrastructure and rolling stock in many European countries. Various routes and fleets in a number of countries have already been fitted with ERTMS, and work is currently being done to roll out the system in many other countries. Since 2006, DEKRA Rail has built up a wealth of experience in various ERTMS projects. We help companies with certification and track-train integration tests and in optimizing their transport systems.

Certification

DEKRA Rail has invaluable experience in the certification of ERTMS assets. We have detailed knowledge of the legislation and regulations which apply nationally and internationally and we are well versed in the requirements relating to type approval tests. We possess all necessary accreditations and the Dutch National Safety Authority (ILT) has designated DEKRA as a Notified Body for all TSIs.



Track-train integration tests

The use of ERTMS/ETCS components that have been certified and released is not a 100% guarantee that the interaction between the rail vehicle and the infrastructure will actually result in an effective rail transport system. To this end, DEKRA Rail performs track-train integration tests and carries out additional investigations for rail infrastructure managers, railway undertakings and suppliers. To be able to do this, DEKRA Rail has tried and trusted testing programs at its disposal which are based on national and international legislation and regulations.

Track-train integration tests are mandatory for new ERTMS systems and ERTMS components in rail vehicles and infrastructure. Integration tests are also essential when existing systems are modernized or upgraded.

Tests carried out by DEKRA Rail consist of laboratory tests as well as field work. Our ERTMS testing specialists draw up the testing program and carry it out in close collaboration with the client and infrastructure manager. DEKRA Rail also arranges the planning, the track possessions and the safety organization. We are familiar with various different scenarios and our approach is effective.



Optimization of transport systems through analysis of user processes

In complex rail transport systems, the underlying technical systems work in close conjunction with each other. Users should be aware of how the systems are used and the influence they have on one another.

Failing technology, an incorrectly described procedure or non-compliance with user processes can lead to structural problems, resulting in damage, delays and inconvenience for passengers. The interaction between systems and users must therefore be defined with a high degree of accuracy. This makes it possible to implement efficient user processes that are acceptable to all parties.

DEKRA Rail has amassed a great deal of experience and expertise in assessing user processes on ERTMS lines. We are only too glad to help clients optimize their user processes, reduce operational inconvenience and improve the transport system. To this end, we employ experienced software engineers, data analysts and ETCS experts. We use this expertise to:

- > Design a system to monitor user processes (automatically)
- > Define KPIs for these processes and the implementation of performance reporting
- > Incident Analysis & Issue Management
- > Support in the evaluation and optimization of processes

Other services provided by DEKRA Rail

- > Railway Certification and Assessment Services
- > Wheel-Rail optimization
- > Product Testing
- > Remaining useful life assessment
- > NDT services
- > Rotating equipment condition monitoring

Contact

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