

Your Support for all Railway Assessment and Evaluation Services

WALENBERG

Rail Assessment



Services

WALENBERG Rail Assessment started in 2010.

The purpose of the company is to act as an independent evaluator and assessor for railway applications. This takes place in the framework of the European Railway Regulations: Technical Specifications for Interoperability and Common Safety Methods.

A specific service – developed by **WALENBERG Rail Assessment** is the risk based Authorisation Management for railway vehicles and infrastructural subsystems. The experience of **WALENBERG Rail Assessment** guarantees the high quality and effectiveness of the assessments performed. **WALENBERG Rail Assessment** offers you flexibility and efficiency in your projects combined with the highest level of professional expertise.


















The processes and procedures applied by

WALENBERG Rail Assessment fully support the independency and impartiality of the evaluations and assessments.








References

WALENBERG Rail Assessment staff has been involved in many evaluation, assessment and certification projects in the past and also in a number of important European Studies. Some examples:

-  Authorisation Management for Railway Undertakings and Infrastructure Managers to reduce the risk in certification and authorisation processes for vehicles and infrastructural subsystems
-  Development of the “Authorisation Toolbox”, which collects all experiences and best practices in the risk management of certification and authorisation processes
-  Development of a plan for the re-authorization of several series of vehicles after upgrade and retrofitting with ERTMS/ETCS Baseline 3 OBU's.
-  Development of plans for the re-authorization of the Dutch high speed line HSL South after placing wind screens on the bridge over the Hollands Diep and replacement of noise barriers on parts of the line
-  Specific studies in support of the management and operation of the Dutch high speed line HSL South
-  Technical support in legal procedures for Railway Undertakings and Infrastructure Managers
-  Audits for Belgian and German accreditation bodies
-  Co-ordination of assessment, certification and authorisation of the Dutch high speed line HSL South
-  Assessments of specific applications of ETCS on board assemblies for the Dutch Betuwe Route locomotives
-  Assessment of Track-Train Integration for different ETCS applications
-  Assessments of components (interoperability constituents) for ERTMS/ETCS track side and on board equipment
-  Evaluation of the first set of high speed TSIs for the European Commission
-  Study into the progress of interoperability in Europe for the European Commission
-  Study into the progress of ERTMS/ETCS and the safety assessment methods applied in a number of European ERTMS/ETCS projects for the European Railway Agency
-  Study into the national safety rules of Member States for the European Railway Agency
-  Support to the Latvian and Estonian Governments for the introduction of European legislation, European railway standards and conformity assessment
-  Audits and peer reviews in Croatia, Serbia and Macedonia to check the progress in the application of European railway legislation

Customers

Customers of **WALENBERG Rail Assessment** are typically:

-  Manufacturers of railway equipment for track side and on board applications, users and owners of heavy rail, light rail, metro and tramway systems, like infrastructure managers, railway and transport operators and leasing companies
-  Maintenance workshops
-  National and international railway authorities, Member States, Ministries, National Safety Authorities, European Commission and European Railway Agency
-  **Walenberg Rail Assessment** is recognised co-ordinator/evaluator for the French Notified Body CERTIFER in the AREA of railway signalling track side and on-board systems.
-  **Walenberg Rail Assessment** supports Belgian and German accreditation bodies in accreditation audits

Railway Assessment

Rules and procedures

Over the last 25 years, railway transport in Europe has gone through tremendous changes. In the past, the responsibilities for all aspects of the railway were in most cases and in most countries with the state. The liberalisation of the European railways started with the European Directive 91/440, which first required a formal separation of activities of railway operation and management of infrastructure through separate accounts. Today, a structure exists in which some basic processes have to be organised completely independent of each other. This structure includes the assessment of railway products, systems and operations.

Legal structure

Two important European Directives form the basis for the technical specification of the railway and its parts. These are the Railway Safety Directive (EU) 2016/798 (successor of 2004/49/





EC) and the Railway Interoperability Directive (EU) 2016/797 (successor of 2008/57/EC).

These two are fundamental and other documents in the legal structure originate from them: the Technical Specifications for Interoperability (TSI) and the Common Safety Methods (CSM).

TSIs contain all the elements which are necessary to design build, evaluate, assess and finally certify the conformity of railway products (interoperability constituents) and subsystems with the requirements. The Railway Interoperability Directive specifies the authorisation processes and – together with the Railway Safety Directive – the safe integration and putting into operation of railway subsystems. **WALENBERG Rail Assessment** is very familiar with the different Directives, TSIs and CSMs and can assist you in applying them.

WALENBERG Rail Assessment possesses all the expertise and experience to help you

apply the requirements and the legal structure.

By making this specific expertise available the services provided by **WALENBERG Rail Assessment** will improve your processes to develop, design, produce, test, assess and certify your railway products and systems in complete compliance with the legal requirements.

Technical Specifications for Interoperability

The Interoperability Directive (EU) 2016/797 determines that the technical requirements for the interoperability of the high speed and conventional rail system are defined in further documents, which are called the TSI: Technical Specifications for Interoperability. These key documents are arranged either by structural subsystem (like Energy, Infrastructure, Rolling Stock and Control, Command and Signalling) or by common areas of application, which include more than one subsystem (like Persons of


Reduced Mobility, Safety in Railway Tunnels or Noise).


TSIs also contain all the elements which are necessary to evaluate, assess and finally certify the conformity of railway products (interoperability constituents) and subsystems with the requirements.

WALENBERG Rail Assessment is very familiar with the different TSIs and can assist you in applying them.

Common Safety Methods

The Railway Safety Directive (EU) 2016/798 introduces the notion of Common Safety Method. These are further described in

 The Commission Implementing Regulation (EU) 402/2013 (amended by (EU) 2015/1136), which specifies the details of the Common Safety Method for Risk Evaluation and Assessment (CSM-RA).

 The Commission Decision 2009/460/EC, containing the requirements for the assessment of the achievement of Common Safety Targets.

All parties in the railway sector in the European Member State have to apply these rules on all safety related issues.

WALENBERG Rail Assessment is fully prepared to assist all involved parties: manufacturers, railway undertakings, infrastructure managers and also national and international authorities in the process of applying, evaluating and improving the

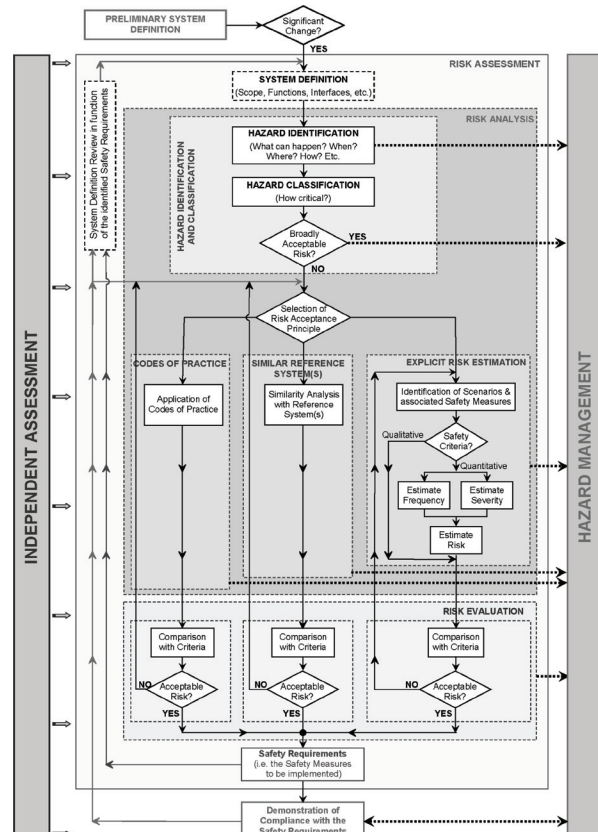
applications.

European Railway Standards

The third level of requirements in the railway field are the Railway Standards. Many technical subjects are covered by standardisation documents. A special feature is, that the formal application of Railway Standards is normally not required. The application of standards is voluntary in the normal situation. However, exceptions exist where standards can be mandatory.

Some standards request that independent assessment takes place, like the RAMS standards EN 50126, EN 50129 and also the EMC standard EN 50238.

As an independent assessor **WALENBERG Rail Assessment** is well positioned to perform assessment activities under the European railway standards.



Railway System Integration

Rules outside Europe

The European (EU) system of regulations and rules has developed as described above. Outside the European Union other sets of rules apply, however the EU structure is also being used. For example in the modernization of the COTIF.

Frank Walenberg, the director of **WALENBERG Rail Assessment** is arbitrator for the **Netherlands** in OTIF.

The separation of railways has led to a structure of the railway sector in which responsibilities for the safe and reliable operation of the complete railway system depend highly on the co-operation between the different players. No single party carries the responsibility for the integrated system.

The founder of **WALENBERG Rail Assessment** has already in the past pointed out in several studies that special arrangements were needed to come to a safe and reliable functioning of the integrated railway system. Under the Railway Safety Directive and in particular in the way in which the Common Safety Methods have been specified, this problem will be solved. The Common Safety Methods bridge the gap between the Railway Interoperability Directive and the Railway Safety Directive.



Contact

Assessments required by the CSM and focused on the safe and reliable integration of the railway will help to maintain the high level of safety and reliability of the railways.

WALENBERG Rail Assessment can provide you with the support and services you need for the safe and reliable integration of your products and subsystems.

Interested?

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