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AEbt Angewandte Eisenbahntechnik (Applied Railway Technology)

International Requirement List

AEbt Angewandte Eisenbahntechnik GmbH

Laufertorgraben 4 90489 Nuremberg, Germany

www.aebt.eu

- ISO 9001 Certified -



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TFI Group and the source from the Safety Specifications

The ministries of the 5 countries

Austria, Italy, Switzerland, Netherlands and Germany

are represented by the TFI-Group

- BAV (Swiss Federal Office of Transport)
- BMVIT (Austrian Federal Ministry of Transport, Innovation and Technology)
- DB Netz AG network operator
- EBA (German Federal Railway Authority)
- IVW (Dutch Transport and Water Management Inspectorate)
- ÖBB Infrastruktur Betrieb AG, Operational Standards certification authority
- RFI DT Cesifer (Rete Ferroviaria Italiana S.p.A., Direzione tecnica Certificazione Sicurezza Imprese Ferroviarie, Italian Rail Network)
- SBB CFF FFS (Schweizerische Bundesbahnen)



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Project Aims and Objectives

The International Requirement List

- > simplify the national certification process for the safety authorities and the applicants
- reduce the amount of work for all involved organisations
- contains all the requirements from the **n**ational **s**afety **a**uthorities

AEbt's function

- Development of the IRL catalog
- Professional compilation of all national requirements

Safety Requirements for the IRL

- No requirements may be omitted (no requirements forget!)
- No requirements may be added
- No requirements may be changed, either in terms of content or context



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What does IRL Stand For?

International Requirement List



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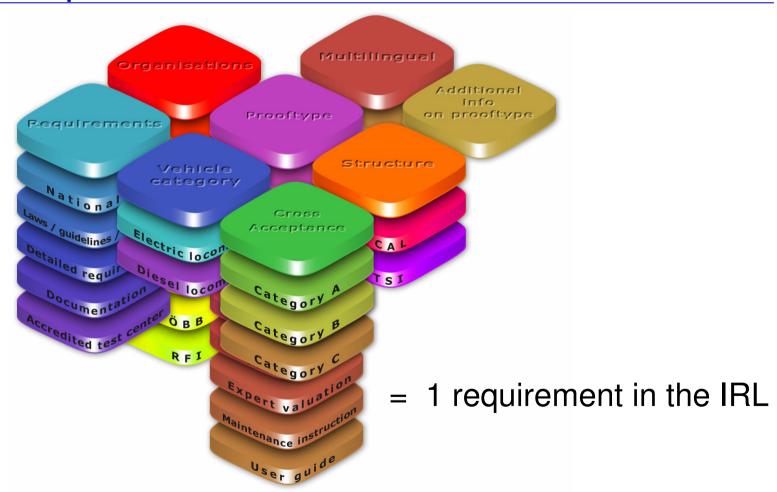
International Requirement List





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International Requirement List

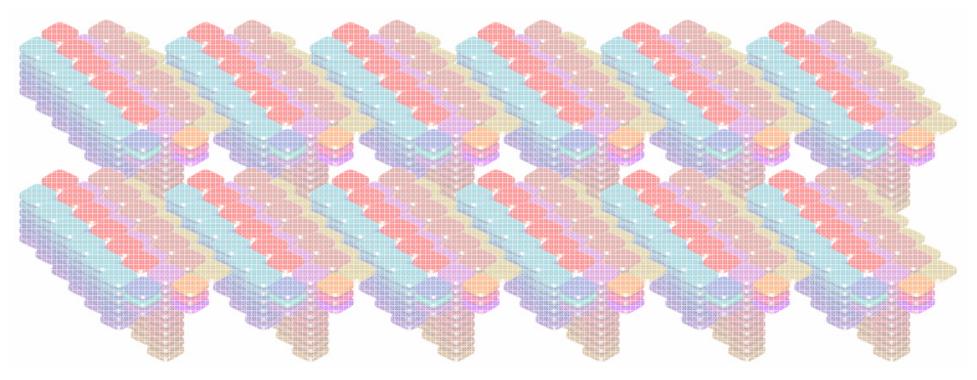




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International Requirement List

But the IRL contains 976 national requirements with translations 2928 data records





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International Requirement List

Practical demonstration:

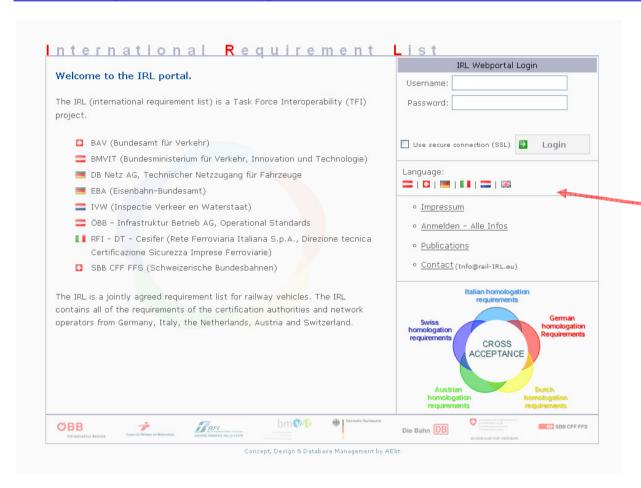
www.rail-irl.eu

Working since March 2008!



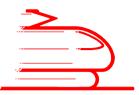
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IRL web portal with login



http://rail-irl.eu

3 languages



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General information

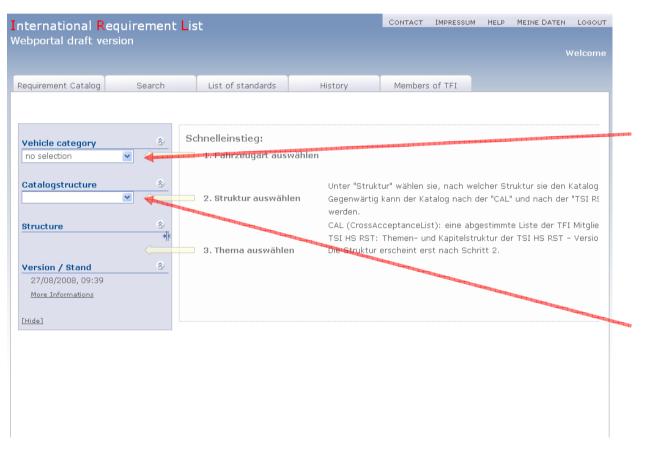


detailed informations about the content of the IRL

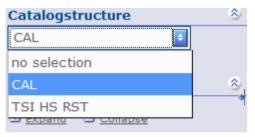


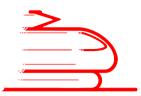
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Railcars categories



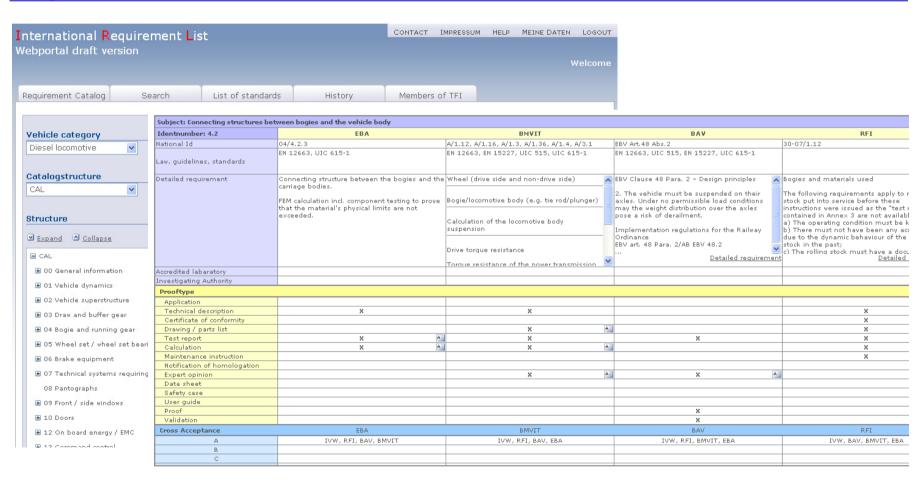






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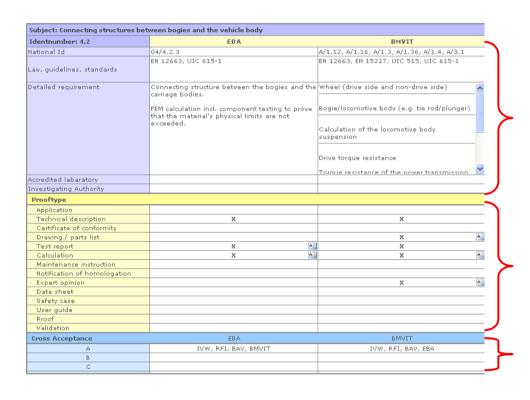
Requirements





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Requirements



Detailed requirement Implementation of requirements Legislation, guidelines, standards

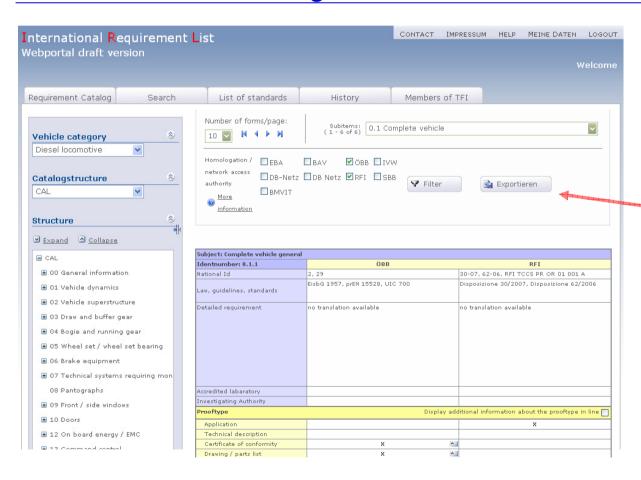
Documents with information that must be submitted to the organisation

Cross Acceptance concerning the mutual acceptance for the homologation process

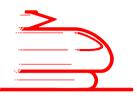


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Choose of the different organizations

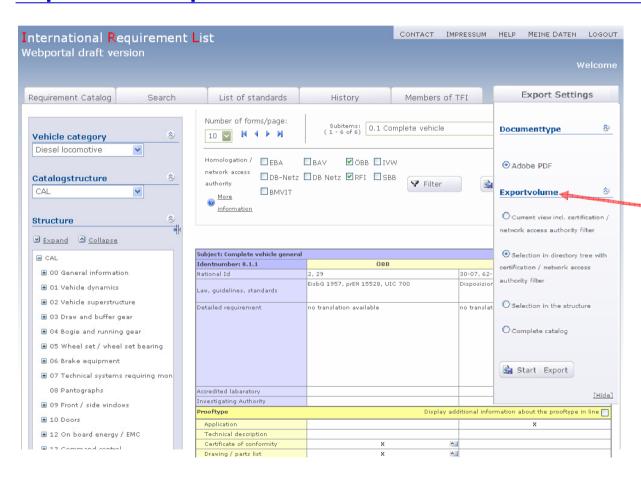


The output of the requirement catalogue can also be filtered



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Export from requirements into a file

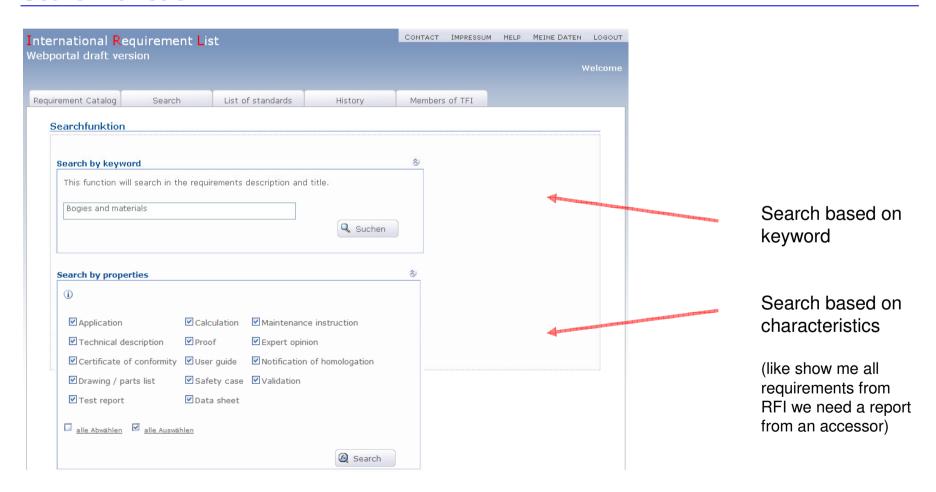


The requirement catalogue can be exported as a PDF file



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Search function





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List of Standards



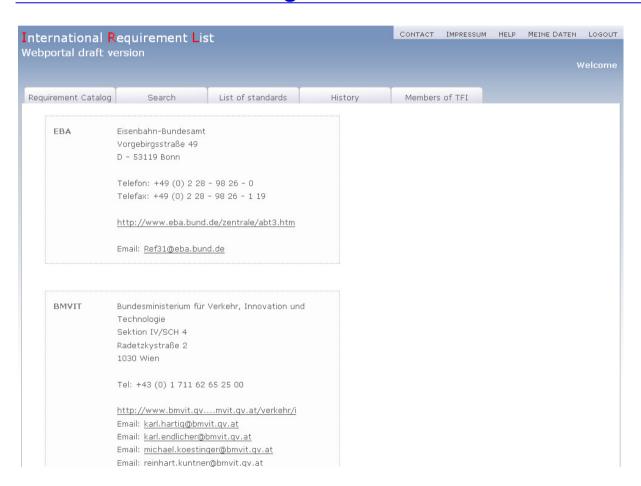
contains standards, guidelines, regulations and laws contained in the IRL

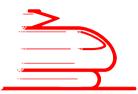
This list also states the current revision level valid for the whole IRL



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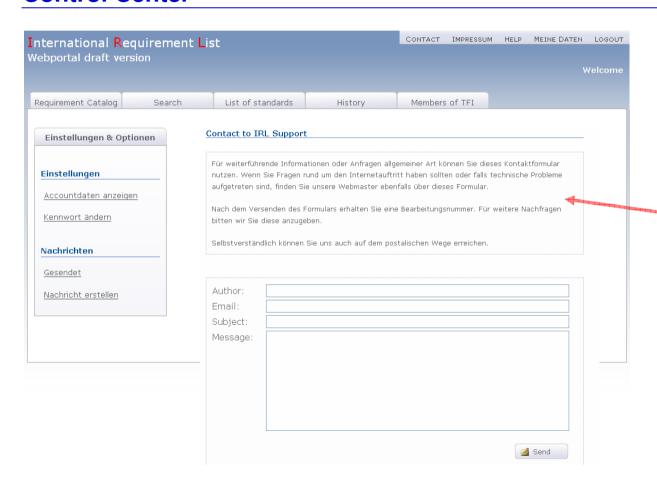
Addresses from the Organizations





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Control Center



Contact the IRL Support Team or the TFI Group

Change user details & password



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International Requirement List

IRL Database:

Practical demonstration

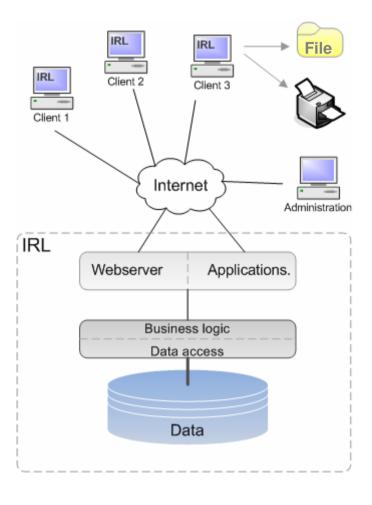


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Design of the IRL

How was the IRL created?

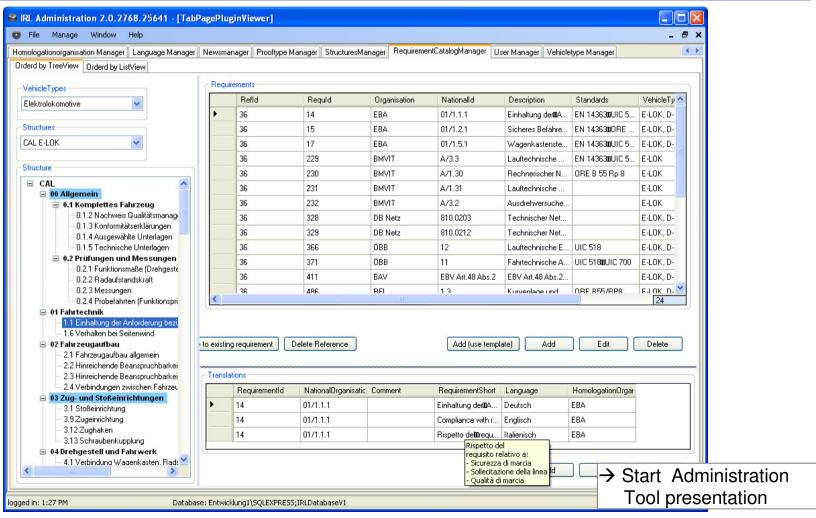
- The IRL is based on a database
- The administration and maintenance will be done using a content management system (CMS)
- Access to the IRL is provided via a web portal





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IRL Administration





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More Features of the IRL Web Portal

List of Standards

- Parallel to the requirement catalogue there is a list of all standards, guidelines and laws referenced in the IRL

Export

- Export of the requirement list in PDF or Word format
- Export of the current view (with all selected filters) or of the complete catalogue

Filters

- By organisation
- By vehicle type



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More Features of the IRL Web Portal

Search

- Full-text search for terms contained in the requirements
- By standards and guidelines
- By property

Localisation

- All of the data in the IRL can be used in any of the available languages
- Only the relevant parts of the requirements need to be translated,
 - i.e. the field standards do not need to be translated
- If a translation is not complete, the contents can still be displayed.

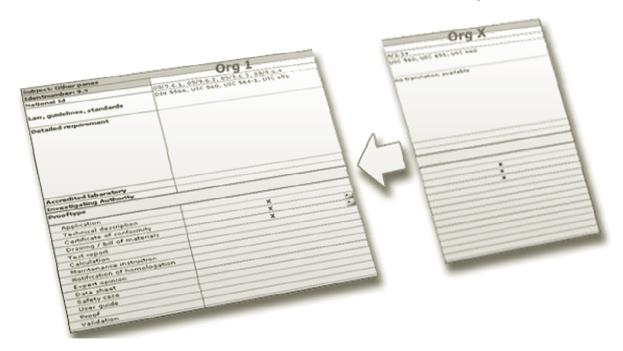
These parts of the form are then marked as 'not translated'



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Looking to the Future

Addition of new organisations, e.g. additional countries additional requirements

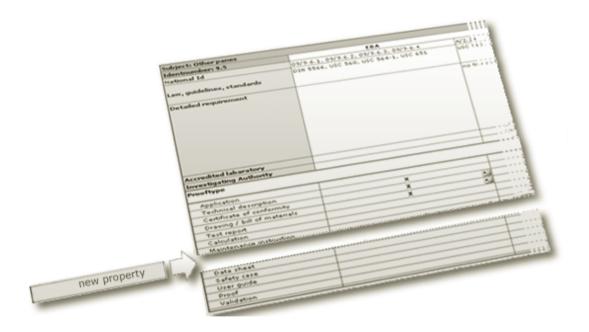




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Looking to the Future

Addition of new properties or new types of certifications for a requirement

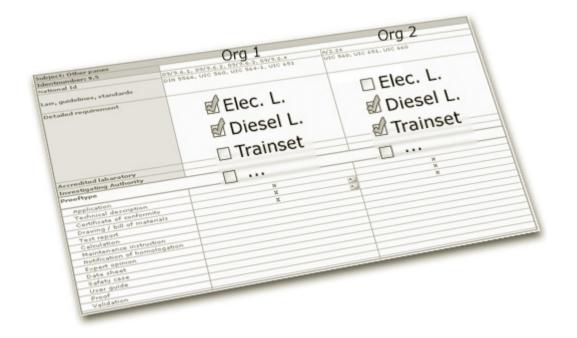




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Looking to the Future

Addition of new vehicle types or categories



When adding new vehicle types the existing requirements can transferred to the new category



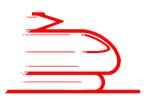
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The IRL as a Web Portal

Features of the IRL

- All national requirements are instantly accessible
- New requirements can be added easily
- > New vehicle types or categories can be added quickly and easily
- New structures, e.g. new TSI structures, can be added easily
- The verification process is quick and secure
- The language is selectable
- > The **search function** allows you to find technical details
- The information is accessible from anywhere
- Requirements of the national authorities for vehicle design changes are accessible systematically
- Add on TSI requirements.





Thank you for your attention

AEbt Angewandte Eisenbahntechnik GmbH

Nuremberg, Kassel, Fischamend, Olten

Norbert Schäfer independent safety assessor for rail vehicles

- Control and Communication Systems

- Functional Test

Tel: +49 911 520 992 - 11

Mobil: +49 175 327 44 27

Email: <u>norbert.schaefer@aebt.de</u>

www.aebt.eu