

**EuroSpec**



## More alignment railway operator's needs

Update on the position and added value of the EuroSpec initiative of European railway operators

September 2020

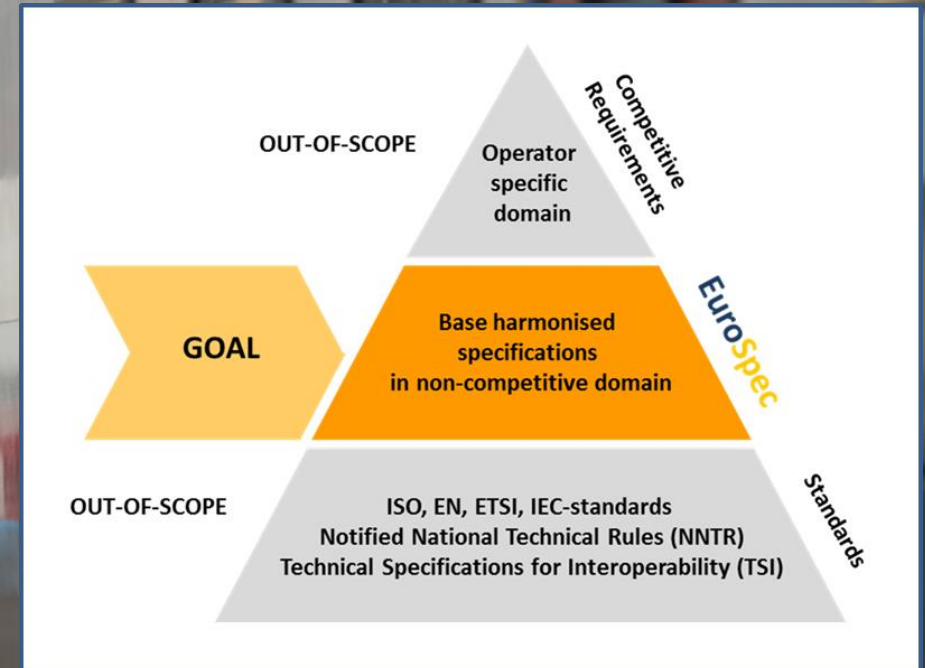


**EuroSpec**

# Starting point *EuroSpec*

This initiative is fulfilling the next step in harmonisation

- Started in 2011
- Lean approach and organisation
- Initiative at member level
- Focus on passenger trains and loco's
- In addition to the regulatory framework and without overlap with other initiatives. No duplication
- From user-perspective
- Deliverables are free for everyone
- Manufacturers and suppliers part of reviewing process



# Starting point *EuroSpec*

An added value from everyones perspective



## Rolling stock manufacturers

- Suffering from a variety of procurement processes, structures and requirements from the market.
- Heading for standard adaptable platforms.

## Railway operators

- All tendering their procurement, do not design trains;
- Dissatisfied about duration of procurement process for trains;
- Cost, quality and reliability still needs improvement;
- Need for better controlled uptake of innovations.

## Passengers

- Cost, quality and reliability still needs improvement;
- Expect a competitive level of comfort and quality.



# Vision *EuroSpec*

Added value for the sector, now and in the future

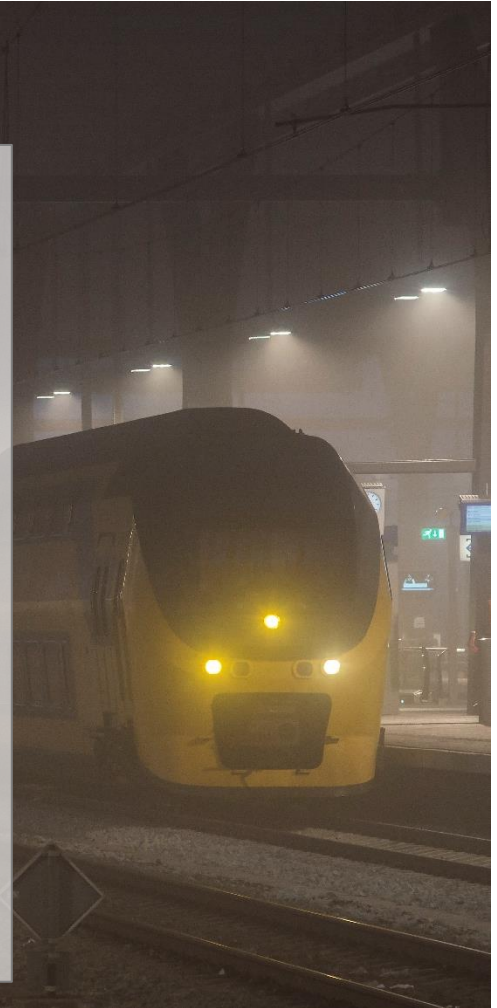
To align operator's needs in order to reduce the whole life cycle cost of rolling stock, shorten the delivery time and speed up the innovation cycle and the deployment of innovations.



# Objectives *EuroSpec*

An updated view on its added value for the sector

- To reduce diversity in our request to the industry for more competitive and mature products by writing common specifications.
- To provide to the industry free “Customer needs” for their future R&D program, through requirements that are not yet fulfilled by existing product nor solution.
- To promote through our common requirements to the industry the availability of information required for improving operation performance and ensuring long term sustainability of our assets, supporting open interfaces.
- To reduce the overall need of resources from operators in the harmonization and standardization processes: Do the same work smarter with less people in a shorter time.
- To contribute to the development of a network of European Railway experts: share views, develop competencies.





# Approach *EuroSpec*

Adapated to what is needed and expected



- To fill in gaps, not yet covered in any harmonization/standardization work.
- To focus on the areas where the diversity and the costs are large, or innovation is needed on the short term.
- To support and speed up the 'regular' international standardization processes by aligning the operators' needs in advance. And deliver input for EN-standards.
- To exchange our needs to the industry from the initiation stage (project brief) to the final document (EuroSpec). EuroSpec can be a sparring partner for industries for their developments.

# Values *EuroSpec*

Its way of working is aligned with the expectations of its members

- We are a lean organization: EuroSpec is based on networking and the willingness of members to work together based on an effective process.
- We are open, transparent and available for exchange with the industry and other operators.
- We share our point of view and look for convergence. But we also accept differences, and the fact that we do not always reach consensus on each requirement.



**EuroSpec**



# Organisation of *EuroSpec*

Lean organisation starting point for achieving the defined goals

Flat organisation

6 European train operating companies and the association of train operating companies in the UK represented by the RDG.



Advisory Group

Steering Group

Support

Working Groups

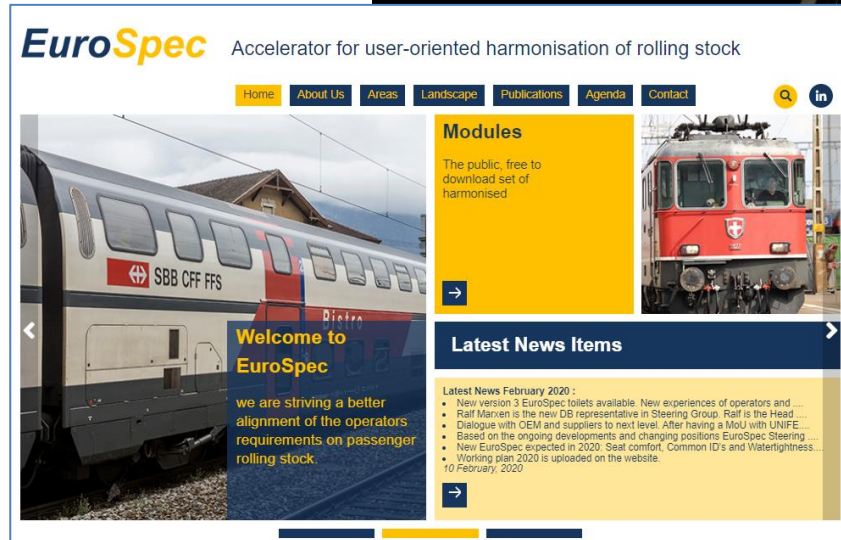


*EuroSpec*



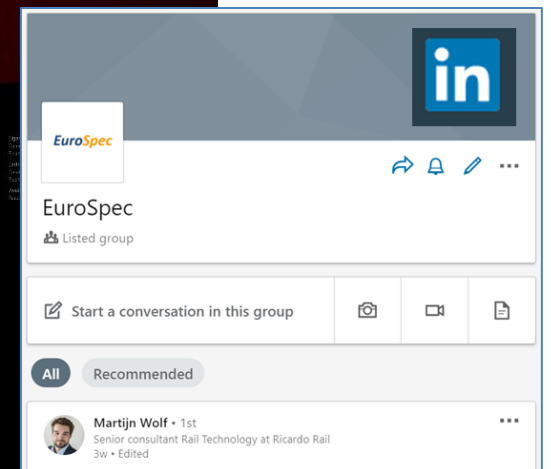
# Achievements *EuroSpec*

## What has been achieved so far?



[www.eurospec.eu](http://www.eurospec.eu)

Linkedin Group



**EuroSpec**

# Achievements *EuroSpec*

## What has been achieved so far?

<b>Pantograph strip</b> All versions, pdf and xls documents.	<b>Wheel Brake Disc</b> All versions, pdf and xls documents.	<b>Parking Noise</b> All versions, pdf and xls documents.	<b>Automatic coupler</b> All versions, pdf and xls documents.
<b>Sliding Steps</b> All versions, pdf and xls documents.	<b>TCMS Data Transfer</b> All versions, pdf and xls documents.	<b>Requirement Management</b> All versions, pdf and xls documents.	<b>Documentation</b> All versions, pdf and xls documents.
<b>HVAC systems</b> All versions, pdf and xls documents.	<b>Toilet systems</b> All versions, pdf and xls documents.		

**EuroSpec** Accelerator for user-oriented harmonisation of rolling stock

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# Achievements *EuroSpec*

## What has been achieved so far?

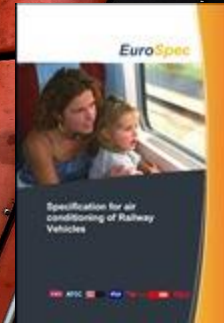
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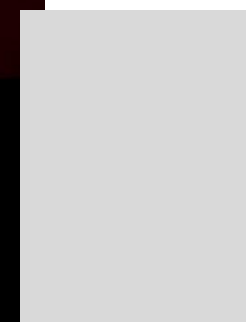
Sliding Step



Automatic Coupler



In different versions



# Achievements *EuroSpec*

## What has been achieved so far?

### Application and dissemination of EuroSpec documents:

- Discussion with individual manufacturers;
- Exchange and discussion with UNIFE-members;
- Already used in tenders by all EuroSpec members;
- Recognized, understood and included in new (standard) designs of manufacturers;
- Used as starting point for new EN-standardisation work
- Elements used as input for Shift2Rail-projects

### Networks:

- 'Experts' and 'design managers' meeting each other sharing experience and the same long term ideas.

Starting point for ..





# Achievements *EuroSpec*

## What has been achieved so far?

Application  
for  
procurement,  
policy and  
regulation.

Case *EuroSpec*  
Parking Noise

High speed train project (2020-23)

Reference in White paper on Acoustics and  
State of the art (2020)

Use in next tender (2020-24)

Reference in Key Train Requirements V6 (2020)

Potential Use in next tender

Use in discussion with OEM (2020)

Input TSI revision (2022)

Next procurement (2020-23)



*EuroSpec*

# Results *EuroSpec*

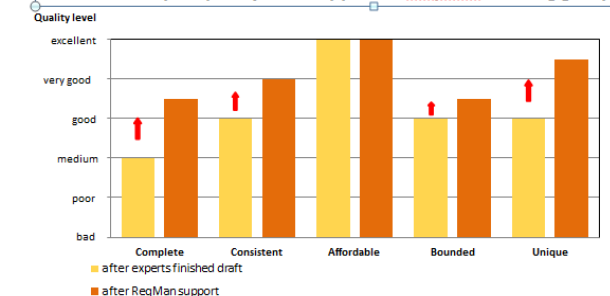
## Requirement Management important base for work

- EuroSpec “requirements management” has defined a common reference and method for the other working groups, to improve standardisation between all working groups;
- EuroSpec Working Group “Requirements Management” trains and coaches the specialists in writing requirements;
- EuroSpec Working Group “Requirements Management” reviews and improves the Eurospecs using several quality aspects.

The document **Requirements Management** provides a common focus on “requirements management” for use by companies in the rail sector. The document refers to existing standards and best practices and has the following chapters as content:

- Requirements Characteristics;
- Requirements Syntax;
- Requirements Attributes;
- Requirements Traceability;
- Requirements Validation and Verification;
- Requirements Interchange Format;
- Do we mean standards?

Evolution of spec quality with support of ReqMan working group





# Results *EuroSpec*

## Sliding Step – example of harmonized requirements

ID	Requirement classification	Requirement text	Rationale	Verification				
				Offer of Tenderer(s)	Design Review	FAI <sup>1</sup>	FII <sup>2</sup>	Take-over
		1) Introduction						
SLST.1	INFO	This specification is an addition to EN 14752 and TSI PRM and contains specific items which operators encounter during the operation.	Scope of EuroSpec Sliding Steps.					
		2) Definitions and standards						
SLST.2	INFO	A sliding step is a bridge plate as defined in EN14752:2015, with the addition that the sliding step only moves in y-direction, and performs no rotation- or folding move.	EuroSpec has to be consistent with other existing norms.					
SLST.3	INFO	The coordinate system used to indicate directions throughout this specification is shown in figure 2.	Easy readability.					
SLST.4	RE	The sliding step shall comply with EN 14752.	Consistent with SLST.1.	X	X	X	X	
SLST.5	RE	The sliding step shall comply with EN 16584-1.	Norm is not yet mandatory in TSI PRM.	X	X	X	X	
SLST.6	RE	The sliding step shall comply with EN 16584-3.	Norm is not yet mandatory in TSI PRM.	X	X	X	X	

Indication of methods and/or documentation to verify a requirement

Importance and legal status of the requirement to the project

Equal quality level of individual requirements

Reason to state the requirement:

# Activities *EuroSpec*

## Overview of on going and potential work of EuroSpec in the coming period

### New set of harmonized specifications:

Seat comfort, Exterior doors, Common ID's, water tightness, Upgradeability, Global comfort, alternative energy supply, on-board data, LCC, upgrading software.

### Update of existing EuroSpecs:

Requirement Management, HVAC, Automatic coupler,

### Investigation of new areas:

Recyclable Trains, exterior Hatches, train diagnostics,

Investigation and alignment of user requirements as input for updates of TSI's and or standards.

### Work plan 2020





# More information about or for *EuroSpec*

[www.linkedin.com/groups/13547202/](https://www.linkedin.com/groups/13547202/)

Direct contact: [info@eurospec.eu](mailto:info@eurospec.eu)

Our website [www.eurospec.eu](http://www.eurospec.eu)

Download area



Latest News

**Latest News Item**

**Latest News February 2020 :**

- New version 3 EuroSpec toilets available
- Ralf Marxen is the new DB representative
- Dialogue with OEM and suppliers to be initiated
- Based on the ongoing development
- New EuroSpec expected in 2020: S
- Working plan 2020 is uploaded on

→

**Agenda :**

- 2020 :
- 2 and 3 June 2nd Steering group m

Contact form

**EuroSpec** Accelerator for user-oriented harmonisation of rolling stock

**Contact**

We invite you to use the EuroSpec specifications in order to make the rail sector more competitive. You can always contact us, the EuroSpec team, in order to provide us feedback on the specifications, the website or else. And we like to receive proposals for new topics of interest.

To contact EuroSpec, please complete the form below:

Your Name (required)

Company Name (required)

Your Email (required)

Subject

Your Message

or contact us at: [info@eurospec.eu](mailto:info@eurospec.eu)

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All Recommended

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Senior consultant Rail Technology at Ricardo Rail  
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