

PUBLICATION OF A WHITE PAPER ON CYBERSECURITY IN RAILWAYS

VALENCIENNES, France, 22 March 2021

The European Union Agency for Railways (ERA) is publishing the result of a dedicated think tank on railway cybersecurity in France.

During the ENISA-ERA online conference on Cybersecurity in Railways, Laurent Cebulski, Managing Director of EPSF, the French National Safety Authority, announced a White Paper on how cybersecurity is considered by the railway sector in France.

A Working Group composed of EPSF, ANSSI, the French Cybersecurity Agency, SNCF Réseaux, SNCF Voyageurs and the EU Agency for Railways has developed this White Paper to investigate how both the French/EU railway regulatory framework and the French/EU cybersecurity framework influence the measures to be taken to tackle cybersecurity in railways.

The objective of this White Paper is to:

- remind the reader of the respective scopes of the railway and of the cybersecurity regulatory frameworks;
- draw up an inventory of the ongoing works aiming to build a shared framework between safety and cybersecurity, and to strengthen the way the cybersecurity dimension is taken into account in the railway sector and in the other means of transport;
- highlight the subjects (notably of an operational nature) that have already been identified and **that justify the need for a clear operating framework in the area of “overall” safety;**
- make recommendations, at this stage of the reflections, stemming from the discussions and exchanges between the authors of this note.

ERA is very grateful to the co-authors of this note for the valuable input provided, and is keen on promoting this shared approach in other Member States; with such feedback ERA could adequately adapt the Common Safety Methods and the Technical Specifications for Interoperability to improve the resilience of the railway system against cyber threats.

About the EU Agency for Railways

The European Union Agency for Railways was established in Valenciennes (offices) and Lille (meeting facilities) in 2004. Its approx. 200 staff represent more than 22 European Member States and speak

multiple languages. ERA has been providing EU Member States and the European Commission with technical assistance in the development and implementation of the Single European Railway Area. This comprises enhancing technical interoperability and harmonising rules, promoting simplified access for customers, developing a common approach to safety and safety culture, advising on telematics applications and ERTMS (European Rail Traffic Management System), monitoring National Safety Authorities and Notified Bodies and facilitating the exchange of information between the railway actors in Europe. Since 16th June 2019 the EU Agency for Railways is mandated to issue single safety certificates and vehicle (type) authorisations valid in multiple European countries and to ensure an interoperable European Rail Traffic Management System. The purpose of these activities is expressed by the slogan **“Making the railway system work better for society.”**

Downloads:

[ENR135 -V1 Taking cybersecurity challenges into account in railway safety FINAL](#)

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