UIC SECURITY DEPARTMENT

Railway Security at UIC

December 2024

INTERNATIONAL UNION
OF RAILWAYS

978-2-7461-3461-4

Warning

No part of this publication may be copied, reproduced or distributed by any means whatsoever, including electronic, except for private and individual use, without the express permission of the International Union of Railways (UIC). The same applies for translation, adaptation or transformation, arrangement or reproduction by any method or procedure whatsoever. The sole exceptions - noting the author's name and the source - are "analyses and brief quotations justified by the critical, argumentative, educational, scientific or informative nature of the publication into which they are incorporated" (Articles L 122-4 and L122-5 of the French Intellectual Property Code).

© International Union of Railways (UIC) - Paris, 2024

CONTENTS

UIC SECURITY PLATFORM **4**

Governance **4**

UIC World Security Congress **5**

Working Groups and Special Group **6**

New Technologies 6

Human Factors 6

Strategy, Procedures and Regulations 6

Sabotage, Intrusion and Attacks 6

Crisis Management 6

UIC Special Group – COLPOFER 6

Tools **7**

Network of Quick Responders 7

UIC Rail Security Hub 7

Publications 7

RESEARCH AND INNOVATION PROJECTS **8**

PARTNERS **9**

UIC SECURITY DEPARTMENT **10**

UIC SECURITY PLATFORM

> **It is a global platform open to all UIC members.**

Due to their importance to the economy and communities, railways have often been targeted by malicious actors. Alongside national, European and international public authorities, the rail sector has a specific and complementary role to play in protecting and securing people, information, goods, and infrastructure.

Faced with a myriad of threats and a complex regulatory landscape, the UIC Security Platform is a trusted space where UIC members come together to share best practices, engage in peer-to-peer learning and work towards a shared, cohesive security strategy, ensuring the resilience of the railways.

GOVERNANCE

The Security Platform is governed by the Steering Committee, which defines the strategy.

Chair

Xavier Roche
Security Director
SNCF

Vice Chair

Sarvapriya Mayank
Inspector General
RPF

Secretary

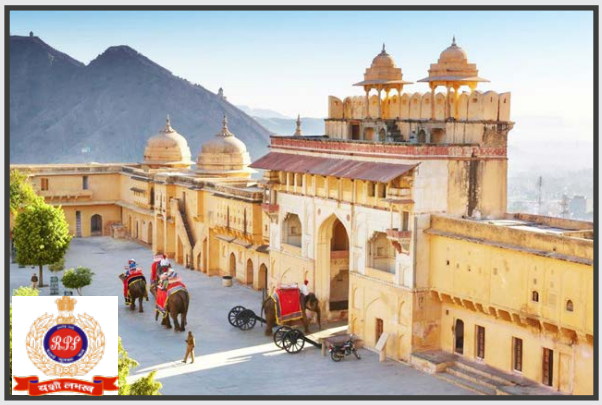
UIC Security Department

The Security Platform activities are carried out in collaboration with our partners (authorities, international organisations, security associations) through:

- **Five working groups**, which operate via regular meetings, discussions, and collaboration, utilising their collective expertise to develop recommendations, guidelines, or solutions in their respective domains,
- **Expert Networks for UIC Regions** (Africa, Asia-Pacific, Latin America, Middle East), for which workshops and webinars are organised on requested topics,
- **Transversal activities with all of the UIC Departments**, Passenger, Freight, Rail System (including Safety) and Sustainable Development, to ensure the integration of security within the development of these activities.

UIC WORLD SECURITY CONGRESS

Every year the Security Platform, together with a UIC member, organises the UIC World Security Congress to address a given theme. The goal of the congress is to take stock of the work carried out over the past year and set future priorities.



18th UIC World Security Congress
20-23 February 2023
Jaipur, INDIA

19th UIC World Security Congress
2-4 December 2024
Paris, FRANCE

WORKING GROUPS AND SPECIAL GROUP

New Technologies

Chair: Mr Armand Raudin, SNCF, France

Aim:
to address new security technologies implemented by railways and how to overcome their malicious use.

Current topics: video analytics, drones, AI

Key outputs:
New Technology - Protection Measures for Railway Assets (2013)
Guidance and potential use cases for AI in the rail security domain (2024)

Human Factors

Chair: VIA Rail, Canada

Aim:
to address the human element in railway security, focusing on behavioural elements.

Current topics: security culture, training, de-escalation of aggressive behaviours

Key outputs:
Organisation of security during major events Guidance (2021)
Best practices to increase the feeling of security (2025)

Strategy, Procedures and Regulations

Chair: SNCB, Belgium

Aim:
to address security strategies as well as partnerships with national authorities.

Current topics: security in cross border trains, legal framework for technologies

Key outputs:
Trends for Rail Security (2024)

Sabotage, Intrusion and Attacks

Chair: Mr Benjamin Burghard, DB AG, Germany

Aim:
to increase the resilience of railways towards acts of sabotage, intrusion and attacks.

Current topics: metal theft, station security, critical infrastructure resilience

Key outputs:
Graffitti Action Point (2024)
Metal Theft Brochure (2024)

Crisis Management

Chair: Ms Ewa Wójick, PKP S.A., Poland, Vice Chair: Mr Munawar Khursheed, RPF, India

Aim:
to foster cooperation on the management of security incidents.

Current topics: business continuity, crisis management plans and procedures

Key outputs:
Recommendations for Crisis Management (2017)
Business Continuity (2025)

UIC Special Group – COLPOFER

Chair: Mr. Salvatore Iannicelli, FS Group, Italy

COLPOFER

Aim: Railway Police and Security Services Cooperative Association (COLPOFER) operates as a Group of Experts in the European region, led by FS (Italy).

Current topics: Security on Major Events, Security Control Rooms, Terrorist and Extremist Activities, Graffiti and Fraud/Ticket Forgery.

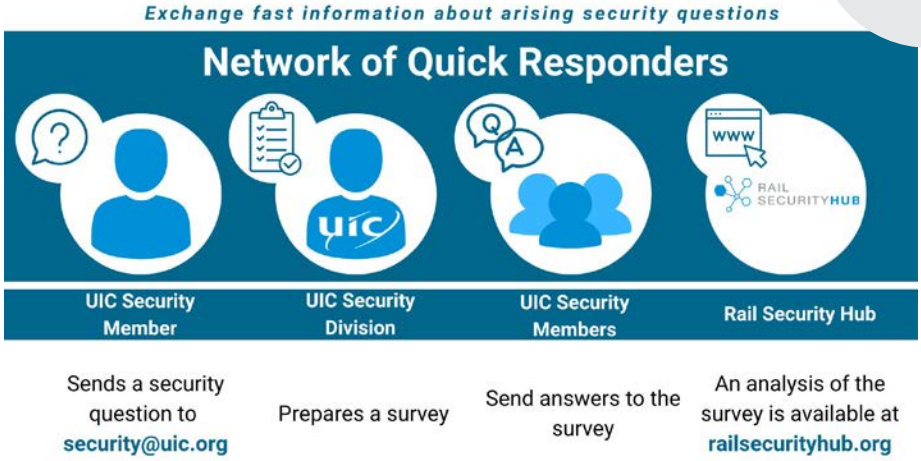
TOOLS

Network of Quick Responders

This tool provides UIC members with answers regarding arising security questions from fellow UIC members.

How does it work?

OVER 50 questions addressed since 2017

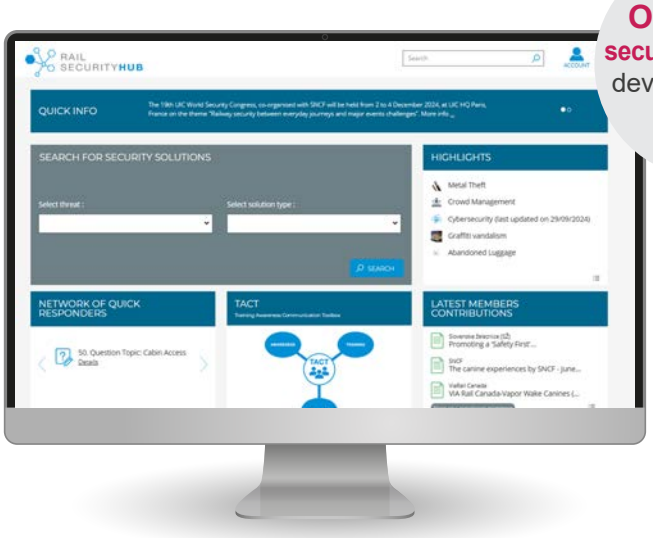


Examples:

- Use of Intelligent Video Surveillance Systems
- Drones
- Graffiti
- Measures to increase subjective security
- Active shooter/armed aggressor procedure

UIC Rail Security Hub

This tool provides UIC members with easily accessible information on security solutions on a secure, comprehensive and interactive platform.



OVER 100 security solutions developed since 2017

railsecurityhub.org

Examples:

- Detection solutions based on AI
- Protection against misuse of drones
- AI-based crowd monitoring and analysis
- Intrusion detection sensors (vibration, passive infrared)
- Explosive detection dogs

Publications

Contributions to **40+ publications** available on shop.uic.org

RESEARCH AND INNOVATION PROJECTS

To provide UIC Security Platform members with the latest in security research and innovation, including easy and accessible solutions for various threats and challenges, the UIC Security Department is actively involved in EU-funded projects on key topics of interest to the members.

The projects aim to develop and implement advanced security measures to protect railways from various threats and involve the development and deployment of cutting-edge technologies and methodologies.

The UIC Security Department has been a part of 17 projects since 2010, taking on the role of project coordinator for 5 of them, resulting in several toolkits, brochures, handbooks and guidance for rail end-users.

Terrorism	IMPRESS, SHERPA, PROTECTRAIL, TETRIS project
CBRN Threats	proactive
Daily Threats	SAFER-LC, RESTRAIL, GRAFFOLUTION Understand . Collaborate . Improve
Cybersecurity	CYRUS enhanced cybersecurity skills, CYRAIL, SECRET PROJECT SECURITY OF RAILWAYS AGAINST ELECTROMAGNETIC ATTACKS
Border Security	SAFE TRAVELLERS, ODYSSEUS, BODEGA
Critical Infrastructure Resilience	SAFETY4RAILS, CIPR Net, PREDICT PREparing for the Domino effect in Crisis siTuations.

PARTNERS

We collaborate with international institutions, law enforcement associations, and international transportation organisations.

UNECE

European Commission

OSCE

INTERPOL

enisa EUROPEAN UNION AGENCY FOR CYBERSECURITY

IWGLTS

European Rail Infrastructure Managers EIM

EUROPEAN UNION AGENCY FOR RAILWAYS

WORLD CUSTOMS ORGANIZATION

UEFA

FRONTEX

The Security Platform Steering Committee welcomes as members:

RAILPOL

CER The Voice of European Railways

And as a permanent guest:

UITP ADVANCING PUBLIC TRANSPORT

UIC SECURITY DEPARTMENT

The Security Department supports the Security Platform activities, coordinating the working groups, organising events (workshops, webinars), issuing guidelines and recommendations and also ensures the institutional representation of UIC on bodies active in the security field. The Security Department also participates and/or coordinates EU-funded security research projects.

From bottom right to top left:

Marie-Hélène Bonneau (Director of the Security Department),
Bruno De Rosa (Senior Security Advisor – seconded from FS Group),
Paula Fernández Díaz (Junior Security Advisor),
Grigore Havârneanu (Senior Security Research Advisor),
Laura Petersen (Senior Security Research Advisor),
Kacper Kubrak (Senior Security Advisor – seconded from PKP S.A.)

Contact us

security@uic.org

uic.org/security

www.afnor.org

L'UIC est une association professionnelle certifiée pour engagement de qualité de services par AFNOR.

UIC is a professional association certified by AFNOR for its commitment to service quality.

INTERNATIONAL UNION OF RAILWAYS
16, rue Jean Rey - 75015 Paris - France
Tel. +33 (0)1 44 49 20 20
Fax +33 (0)1 44 49 20 29
E-mail: info@uic.org

Published by: UIC Commuications Department
Director of publication: Laura Petersen
Design & layout: Coralie Filippini
Photo credit: Adobe Stock

ISBN: 978-2-7461-3461-4
Copyright deposit: December 2024

www.uic.org

#UICrail