UIC SECURITY PLATFORM

Railway Security at UIC

September 2020

INTERNATIONAL UNION
OF RAILWAYS

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RAILWAY SECURITY AT UIC

One of the fundamental values supporting UIC activities:

⊙ Passenger

⊙ Freight

⊙ Rail system / infrastructure

Develop and disseminate worldwide analysis and recommendations for the protection of persons, information, goods and infrastructure from all forms of threat, spanning daily delinquency to terrorist attacks, in order to improve service quality and transport efficiency.

OUR MISSION

To support UIC members by:

Developing synergies and cooperation

Providing a permanent collaborative knowledge platform

Preparing recommendations on arising security issues

Looking to the future through involvement in research and innovation projects

OUR PARTNERS

INTERNATIONAL PUBLIC BODIES

DG MOVE (LANDSEC/RAILSEC)
DG HOME
JRC: Joint Research Centre
CoU: Community of Users for Safe, Secure and Resilient Societies
ENISA: European Union Agency for Cybersecurity
FRONTEX: European Border and Cost Guard Agency
ERA: European Union Agency for Railways

UNECE: United Nations Economic Commission for Europe, Working Party on Rail Transport

WCO: World Customs Organisation

IWGLTS

International Working Group on Land Transport Security (created within the G8) to share experience on a worldwide scale

EUROPEAN LAW ENFORCEMENT ASSOCIATION

RAILPOL
EUROPEAN ASSOCIATION OF RAILWAY POLICE FORCES

INTERNATIONAL TRANSPORT ORGANISATIONS

UITP ADVANCING PUBLIC TRANSPORT

CER

КСТП ССТТ
Coordinating Council on Trans-Siberian Transportation

OUR ORGANISATION

THE SECURITY PLATFORM

Chaired by PKP S.A. (Poland)
Vice-chaired by IR-RPF (Indian Railways Protection Force)

Open to all UIC members

Two annual events

- ⊙ The Security Week in June
- ⊙ The World Security Congress at the end of year

A Steering Committee

- ⊙ Meeting quarterly involving the UIC regions (COLPOFER in Europe), the UIC department activities and our professional and international partners (UITP, RAILPOL, CER, EIM, etc.)

Three Permanent working groups

- ⊙ Human Factors, chaired by RZD (Russia)
- ⊙ Security technologies, chaired by SZDC (Czech Republic)
- ⊙ Strategy and regulations, chaired by SNCB (Belgium)

Two Ad-hoc working groups

- ⊙ BIRC - Border crossing, International Railway Corridors, chaired by PKP PLK (Poland) composed of 3 sub-groups:
  - • "Security-International Freight Corridor" coordinated by CCTT (Coordination Council for Trans-Siberian Transportation)
  - • "Security-International Passenger Corridor" coordinated by FPC (Federal Passenger Company in Russia)
  - • "Security-Borders Crossing" Coordinated by SOK (Railway Security Guard in Poland)
- ⊙ SIA - Sabotage, Intrusion, Attacks, chaired by DB AG (Germany) and vice-chaired by Trafikverket (Sweden)

UIC SPECIAL GROUP

COLPOFER led by FS (Italy) (Railway Police and Security Services Cooperative Association)

The main purpose is the promotion of measures to improve rail security at European level by ensuring cooperation between Railway Police and Security Services. The activities are conducted through an operational collaboration based on direct communication between the members on security issues.

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THE SECURITY DIVISION

⊙ Acts as permanent point of contact.

⊙ Leads the platform together with the Chairperson.

⊙ Coordinates the platform activities (working groups, events, publications, dissemination etc.).

⊙ Organises workshops based on members' demand at regional or international level.

⊙ Issues guidelines and recommendations.

⊙ Ensures institutional representation of UIC on bodies active in the security field.

⊙ Participates/Coordinates EU funded Security related projects.
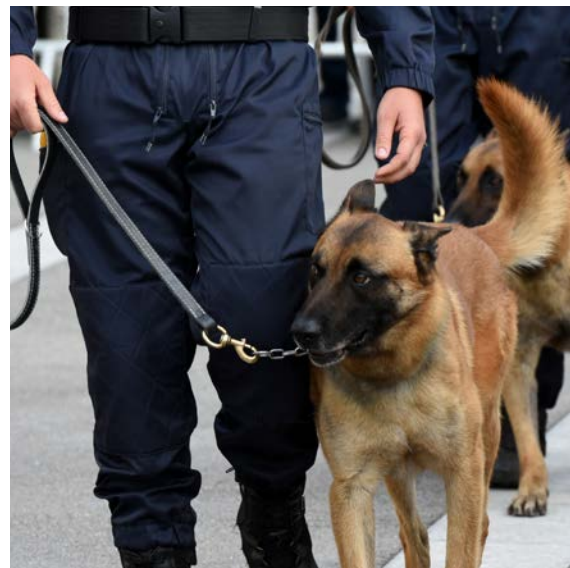
SECURITY PLATFORM TOOLS

UIC NETWORK OF QUICK RESPONDERS

Gives UIC Security platform members an easy way to address arising security topics amongst themselves. Some recent topics include: Use of Air Drones, CBRNe threats, subjective feeling of security.

The process is easy: a UIC member asks the UIC team a security related question. A short survey is created by the UIC team which is sent to the whole Security Platform. Answers from the Security Platform are analysed and synthesized in a report which is then shared with all responders. The final report can also be found on the Security Hub.
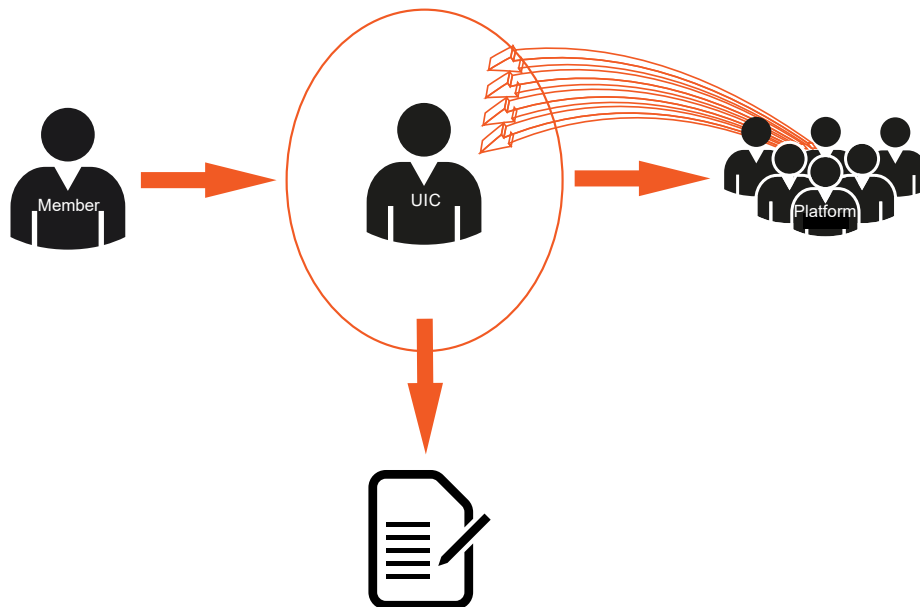
UIC SECURITY HUB

⊙ Easily find, access and share solutions to railway security issues via our comprehensive catalogue (with more than 50 Security Solutions already available),

⊙ Interact with UIC members and other eligible stakeholders (e.g. authorities, academia, industry) through comments, ratings and information sharing,

⊙ Stay informed with permanent updates by UIC Security Division.

https://railsecurityhub.org/

TACT - TRAINING, AWARENESS, COMMUNICATION TOOLBOX

The TACT Toolbox is gathering good practices and concrete examples of training, security awareness and communication used by the members to improve their security and raise the awareness of the staff and public on different security topics.

The goals of the TACT toolbox are to:

⊙ Support UIC members in facilitating exchange of experience on existing training principles, awareness tools and communication campaigns,

⊙ Help the UIC members in gathering all the best training principles and awareness and communication tools in a single, easy-to-use toolbox,

⊙ In the longer term, the toolbox will enable the identification of topics, issues, events, interests that could become common actions regarding training, communication and awareness for improving the security of each member.

The TACT is available at the Security Hub.

SECURITY EVENTS
ORGANISED, CO-ORGANISED OR HOSTED BY THE UIC SECURITY PLATFORM

UIC WORLD SECURITY CONGRESS

In partnership with a UIC member, the Security Division organises a yearly congress to promote the sharing of best security practices among members. Recent congress themes include: "Crisis management and resilience", "Railway freight security door-to-door", "Security policy: which strategies, regulations and partnerships for railway companies," and "Safety and security of stations".

UIC SECURITY WEEK

The Security Division organises a Security Week annually at the UIC Headquarters in Paris to promote synergies and cooperation on various security topics. This includes:

⊙ a series of thematic days decided by our members,

⊙ a UIC Security Awareness Day which consists of a joint dissemination action of very creative, modern and appealing awareness campaigns of UIC members from all regions.

AD HOC SECURITY EVENTS HOSTED AT UIC

Workshops and conferences organised according to the members' needs and ever changing security landscape.

SECURITY WORKSHOPS AT REGIONAL LEVEL

Workshops co-organised within UIC regions (Asia, Africa) dedicated to security or including security sessions.

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# BROCHURES, HANDBOOKS AND ONLINE GUIDANCE

TERRORISM TARGETING RAILWAYS

Thanks to the EU funded project PROTECTRAIL (The Railway-Industry Partnership for Integrated Security of Rail Transport), UIC members have a set of recommendations about technological solutions to protect the railway system against external threats.
http://protectrail.eu

Following the EU funded project TETRIS (Terrorists in Europe Targeting Railway InfrastructureS), UIC members have consolidated information about a database of terrorist attack scenarios in the railway sector.

http://tetris-project.eu/

METAL THEFT

The UIC Metal Theft working group (2011-2019) published the position paper "Metal theft on the Railways". This includes recommendations based on the collaborative work between the railway community and national and international authorities.
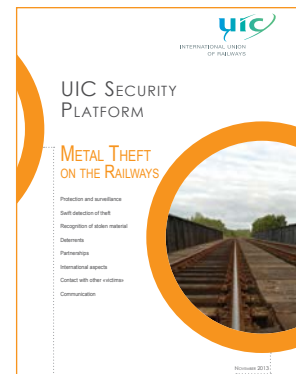
TRESPASSING AND SUICIDES

Thanks to the EU funded project RESTRAIL (Reduction of suicides and trespasses on railway property), railways worldwide have free access to a continuously updated toolbox of innovative solutions to prevent rail suicide and trespassing.
http://www.restrail.eu/toolbox

LEVEL CROSSINGS

Thanks to the EU funded project SAFER-LC (Safer level crossing by integrating and optimizing road-rail infrastructure management and design) railways worldwide have access to a free online toobox to help road and rail stakeholders improving safety at level crossings.
https://toolbox.safer-lc.eu

GRAFFITI VANDALISM

The EU funded project Graffolution provides (Awareness and Prevention Solutions against Graffiti Vandalism in Public Areas and Transport) UIC members with a free online collaborative platform which includes valuable resources for the prevention of graffiti in public spaces, including the transport sector.

http://graffolution.eu

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## CRITICAL INFRASTRUCTURE PROTECTION AND RESILIENCE

EU funded Project CIPRNet (Critical Infrastructure Preparedness and Resilience Research Network) established a Network of Excellence in Critical Infrastructure (CI) Protection R&D and the UIC Security Platform represented end-user perspectives from the railway transport domain.
http://www.ciprnet.eu

The UIC Security Division also:

⊙ coordinated the publication of the CRITIS2016 (http://www.critis2016.org/) proceedings.

⊙ contributed a Chapter about the comprehensive railway protection in the handbook on Railway Infrastructure Security.

CRISIS MANAGEMENT
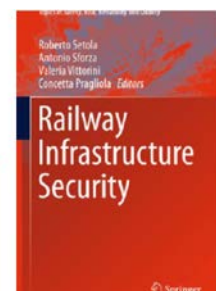
The EU funded project PREDICT (PREparing for the Domino effect in Crisis siTuations) delivered software tools which consist of two core components: a Foresight and Prediction Tool and a Decision-Support Tool. http://www.predict-project.eu/

In 2016 the Security Platform conducted a benchmark study about the Crisis Management efforts within the railway community.

Research involved questionnaires, interviews and a review of available best practice in order to provide UIC members with a Crisis Management Guide. https://uic.org/security

Recommendations
for Crisis Management

April 2017
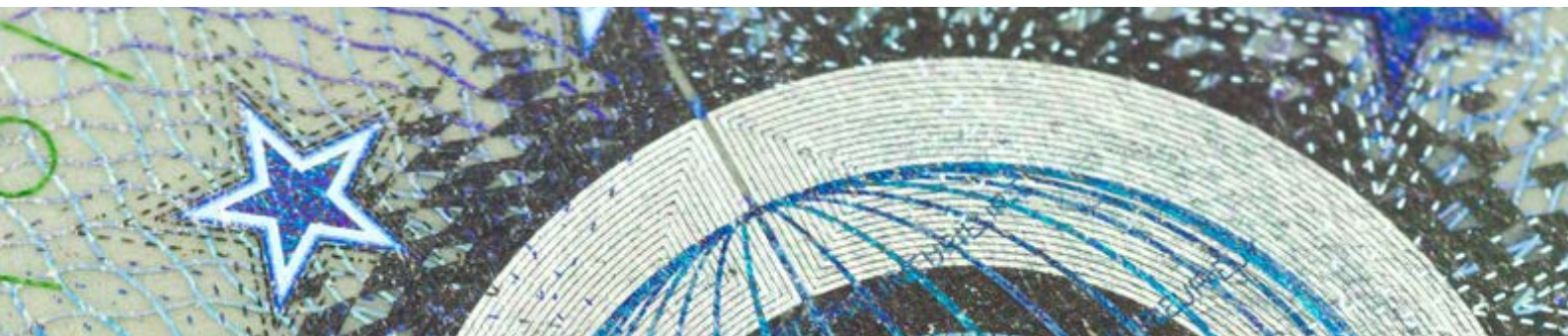
RAIL CYBERSECURITY

The EU funded Project SECRET (SECurity of Railways against Electromagnetic aTtacks) provided UIC members with resilient architecture to adequately react in case of an electromagnetic attack.

http://www.secret-project.eu/

 The EU funded Project CY-RAIL (Cybersecurity in the RAILway sector) has provided UIC members with recommendations on cybersecurity of rail signal-ling and communication systems. http://cyrail.eu/
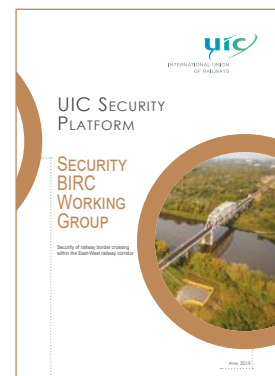
BORDER SECURITY

 The EU funded Project BODEGA (Proactive Enhancement of Human Performance in Border Control) focused on improving the performance of security checks in Schengen border control points in all transport modes. The project resulted in a Toolbox of Resources to support decision-making, enhance the engineering of user-friendly systems and equipment for professional use, improve the working conditions of employees in border man-agement, design next-generation border guard training and educate travellers on border procedures. https://bodega-project.eu/

UIC BIRC Working group

Three leaflets have been produced:

⊙ Security of Border Crossings

⊙ Security of International passenger transport within the East-West Corridor

⊙ Security of International freight transport within the East-West Corridor

PASSENGER SECURITY

◉ **Station security for station business - Handbook on effective solutions**

Target: station managers.

Objective: guidance on effective solutions for station security, taking into account the station design and management, and the solutions' impact on the station business elements and customer perception.

Content: 20 security measures, a cross-analysis of security tools impact on station management, and check lists for practical use.

◉ **Rail High Speed Network Security Handbook**

Target: rail security managers, technical project teams or any security experts.

Objective: guidance on designing, assessing or choosing appropriate prevention or mitigation security measures for High Speed Rail infrastructure, rolling stock, and service planning and development.

Content: practical assessment and planning framework, a list of threat scenarios, as well as a concept of Security Management System.
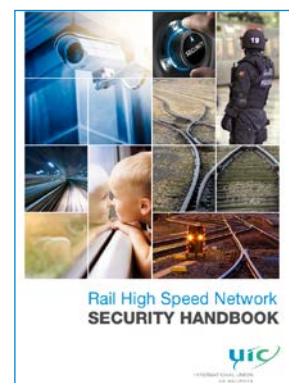
Recommendations issued by UIC Human Factors Working group

Several guidelines have already been published on recommendations for passenger and staff in case of emergency situation. The latest publications are the following ones:

◉ **Guidelines for managing suspicious items in railway premises for Passengers and visitors**

◉ **Guidelines for managing suspicious items in railway premises for Railway Staff**
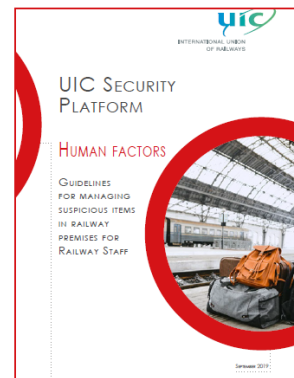
MANAGEMENT OF COVID-19: GUIDANCE FOR RAILWAYS

Objective

Amid the coronavirus disease outbreak, UIC set up a task force combining UIC member companies, experts and other relevant stakeholders to work together to find ways to respond to this crisis that were adapted to the railway sector. The security division has been very much involved in the UIC team led the UIC Passenger department for managing the task force.

The UIC Covid-19 taskforce's main purpose is to provide a trusted space for our members and fellow transport associations to share information with one another regarding this crisis. As this is an unprecedented, global crisis, being able to come together and benefit from each other's experiences has been key in the fight to protect lives while still providing a minimum of our essential service: transport.

Main Outputs

⊙ **UIC Covid-19 dedicated workspace on UIC Extranet**

- Entire documentation made available by Task Force members
- dedicated forum to raise/answer specific questions

⊙ **Guidance documents on "Building RAILsilience together"**

- A series of potential measures
- Potential measures to restore confidence in rail travel following the Covid-19 pandemic
- How the rail sector fought Covid-19 during lockdown
- Back on the track
- First estimation of the economic impact of Covid-19 on rail

⊙ **State of the art**

- Masks, ventilation and social distancing
- Thermal cameras

⊙ **Videos from all around the world (more than 120 videos) available at UIC Media Center**

⊙ **Dedicated UIC LinkedIn group**

All documents are available in different languages at https://uic.org/covid-19/

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ONGOING EU FUNDED PROJECTS

The PROACTIVE (PReparedness against CBRNE threats through cOmmon Approaches between security praCTItioners and the VulnerablE civil society) project will enhance preparedness against and response to a CBRNe incident through a better harmonisation of procedures between various categories of practitioners, including rail, and a better understanding of the needs of vulnerable citizen groups. The project will carry out three field exercises, each in a different country, with at least one exercise taking place in a railway setting. https://proactive-h2020.eu.

The SAFETY4RAILS (Data-based analysis for safety and security protection for detection, prevention, mitigation and response in trans-modal metro and railway networks) project delivers methods and systems to increase the safety and recovery of track-based inter-city railway and intra-city metro transportation. It addresses both cyberonly attacks (such as impact from WannaCry infections), physical-only attacks (such as the Madrid commuter trains bombing in 2014) and combined cyber-physical attacks, which an important emerging scenarios are given increasing IoT infrastructure integration. https://safety4rails.eu

The SHERPA (Shared and coHerent European Railway Protection Approach) project aims to improve the overall protection level for stations and trains in Europe against terrorist attacks by filling the current knowledge gaps about the phenomenon and implementing multiple synergistic actions towards the relevant stakeholders. https://sherpa-rail-project.eu/

For further information

UIC security website: www.uic.org/security

UIC security private workspace: extranet.uic.org

UIC security hub: railsecurityhub.org

UIC Security Platform

Chair: **Piotr KURCZ (PKP S.A.)**

Vice-Chair: **Arun KUMAR (Indian Railways Protection Force)**

UIC Security Division

From left to right:

Julika Ramlow
seconded from DB AG
ramlow@uic.org

Magdalena KUJACINSKA
seconded from PKP S.A.
kujacinska@uic.org

Virginie Papillault
papillault@uic.org

Marie-Hélène Bonneau
bonneau@uic.org

Grigore Havarneanu
havarneanu@uic.org

Laura Petersen
petersen@uic.org

CONTACT:
security@uic.org