
Bruno De Rosa
UIC Security Division
Why developing a new tool

- Steep increase of threats towards railways, both in number and severity.
- There is an already large quantity of security measures and data publicly available, but these are often lacking one or more fundamental characteristics:
  
  - UNIQUE ENTRY POINT.
  - EASE OF ACCESS AND CONSULTATION.
  - TRUSTWORTHINESS.
  - TIMELY UPDATES.
  - HANDY AND FUNCTIONAL LAYOUT.
  - COMPATIBILITY WITH RAIL SPECIFICITIES.
  - DETAILED SPECIFICATIONS.
  - ASSESSMENT FROM THE EXPERTS’ COMMUNITY.
  - COMMUNITY-BASED IMPROVEMENTS.
Why developing a new tool

According to the conclusions of the 2016/2017 Additional Program, UIC Security Division is currently developing the Security Hub Project, an online tool allowing users to quickly and intuitively find and consult relevant measures and data for addressing actual or potential security concerns in the railway domain.
UIC Extranet – Security Hub: Differences and Complementarity

**UIC EXTRANET**

- Private workspace for Platform Members and Working Groups;
- Historical archive/repository containing every kind of Security-related material (e.g. presentations, publications);
- 1000+ documents;

**SECURITY HUB**

- A Private Web Platform accessible to UIC Members and other eligible stakeholders*
  - containing
- a database featuring a large number of consistently compiled and arranged security measures and data,
  - searchable through
- a structured search function allowing easy and intuitive searches and different possible approaches,
  - also featuring
- potential community-based inputs. End-users can submit comments, share data, statistics or operational experiences about each measure
  - and more additional options, like
- the possibility to submit questions to the UIC Network of Quick Responders directly from the Security Hub interface.

**PRODUCTION-ORIENTED**

**CONSULTATION-ORIENTED**
Sharing knowledge and experience: UIC Network of Quick Responders

1) A question is submitted by a Member

2) The question is forwarded to the Members’ Community

3) Answers are returned to UIC Security Division (approx. 15 days)

4) The delivered answers are structured and shared with ALL Members (1st Technical position paper expected within approx. 2 months)

Security Hub’s main features

❖ Single entry point, one-stop solution for Railway security professionals.

❖ Reserved Access.

❖ Diversified User Profiles/Access Levels.

❖ Comprehensive measures database covering all the railway sub-domains.

❖ Scalable, quick and intuitive search function.

❖ Permanent content updates by UIC Security Division.
Security Hub’s main features

❖ Community-based improvements and comments.

❖ **Multilingual function**: measures will be available in English, the Security Hub interface will be fully accessible in 3 languages (at least):
  - ✓ English
  - ✓ French
  - ✓ German

❖ **Online Help Function/User guide.**

❖ **High security standards.**
Within the **My Personal Profile** section, the end-user will have access to various functions:

- **EDIT ACCOUNT DATA**
  - Personal data
  - Organization data
  - Contact data

- **MY INTERESTS**
  Editable custom list of favorite topics. The elements hereby listed can serve as filters for sorting interest-based news, updates and events in the related tabs in the homepage.
Security Hub Homepage

GENERAL OPTIONS
(Back, Language, Help, Personal Profile, Disconnect).

LATEST UPDATES ON THE SECURITY HUB
Shows a list of the last 9 updated or newly uploaded measures. The list can also be sorted using the My Interests filter, allowing the user to display interest-based updates only.

E-MAIL and PHONE CONTACTS of Security Hub administrators / UIC Security Division.

**MY BOOKMARKS**

- Shows a list of previously bookmarked measures or searches.
- The list can also be sorted using the My Interests filter, allowing the user to display interest-based updates only.

**SUBMIT A QUESTION TO THE UIC NETWORK OF QUICK RESPONDERS**

Opens an online dedicated form, to be filled in order to directly submit a question to the NoQR.

- Answers returned to UIC in approx. 15 days.
- 1st technical position paper expected in approx. 2 months.
EVENTS CALENDAR

- A quick view of the next 5 railway security-related events will be listed.
- The list can also be sorted using the My Interests filter, allowing the user to display interest-based events only.
- An archive with all the upcoming and past events will also be accessible from this tab.

LIST OF ALL MEASURES

- All the security measures featured on the Security Hub will be listed in a new page. There will be several options to choose the sorting order.

QUICK SEARCH BOX

- Performs a standard search for a keyword across all the Security Hub content.
Security Hub’s features: News page

- In this section, a quick view of the last 5 railway-security-related news is displayed.
- The list can also be sorted using the My Interests filter, allowing the user to display interest-based news only.
- A comprehensive archive of past news will also be accessible from this tab.
Security Hub’s features: EU Security Projects page

ONGOING RESEARCH PROJECTS

• In this section, a quick view of 5 European Projects which UIC Security Division is participating in is displayed.

• A comprehensive archive, listing and describing all the current and past projects will be accessible from this tab.
Security Hub’s features: the Structured Search

❖ The Structured Search is the core function of the Security Hub:

❖ Users can choose among 2 different approaches for their search:
  ▪ Threat-based search
  ▪ Asset-based search

❖ Once a search approach is selected, 5 groups of thematically-clustered keywords (each containing sub-groups for more detailed searches) will allow the user to select one or more keywords simply ticking the corresponding boxes.

❖ Groups are labeled in a simple way, encouraging pragmatic and intuitive approaches to search.

❖ Each time one or more keywords are selected by the user, only the pertinent remaining keywords will be available for further selection.

❖ Each search will lead to a Results Page containing the list of all the pertinent results found in the Security Hub database.
Security Hub’s features: the Structured Search

As the user chooses to perform a Structured Search, he’s invited to select the desired approach:

• Asset-based approach.
• Threat-based approach.
Security Hub’s features: search example

STRUCTURED SEARCH
PLEASE SELECT ONE OR MORE FROM THE BOXES BELOW TO EXPAND ALL THE RELATED SEARCH KEYWORDS

MEASURES TO COPE WITH A SPECIFIC THREAT

SELECT A THREAT

SELECT THE APPLICATION SCOPE

SELECT MEASURE TYPOLOGY

SEARCH PARAMETERS

• THREAT KIND: ON BOARD PICK-POCKETING

• APPLICATION SCOPE
  UPSTREAM (SYSTEM DESIGN)

• MEASURE TYPOLOGY:
  TECHNICAL

• GEOGRAPHICAL SCOPE:
  EUROPE

• RELEASE YEAR:
  BETWEEN 2014 AND 2016
Security Hub’s features: Results page/Security Measures example

CURRENT SEARCH

The current search can be labeled and saved by the user. It will be listed in the My Bookmarks tab in the Homepage.

RESULTS TAB

(Links to the listed Measures)

MEASURE CONTENT

(part)

The current search can be labeled and saved by the user. It will be listed in the My Bookmarks tab in the Homepage.

CURRENT SEARCH

- UPSTREAM (SYSTEM DESIGN)
- TECHNICAL
- PICKPOCKETING ON BOARD
- EUROPE
- YEARS FROM 2014 TO 2016

RESULTS FOUND

- ON-BOARD CCTV WITH EMBEDDED DISPLAY
- RECONNAISSANCE SOFTWARE APPLICATIONS
- ON BOARD SECURITY STAFF PATROLS
- COLLABORATION WITH PUBLIC AUTHORITIES
- SECURITY CHECKS IN THE STATIONS
- AWARENESS CAMPAIGNS TOWARD CUSTOMERS

ON-BOARD CCTV WITH EMBEDDED DISPLAY

MEASURE DESCRIPTION

Security camera systems with embedded displays can be installed inside the passenger compartments. These systems can record surveillance footage (only images with no sound, usually) and stream it in real time on the embedded display along with further information (e.g., privacy notice about the ongoing recording, information about the itinerary...). The system can be used both as a passive (recording is always active) or active (recording starts only when specific events happen, e.g., when emergency button is pressed) measure.
Security Hub’s features: Security Measures example

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Security Hub’s features: media and interactivity

- **MEDIA GALLERY**
- **ATTACHED DOCUMENTS**
- **EXTERNAL LINKS**

**SUBMIT OPERATIONAL EXPERIENCE /DATA**
To be reviewed and validated from UIC staff before publication in the Operational Experience or Data sections.

**ADD TO MY BOOKMARKS**
A shortcut to the current measure will be accessible from the My Bookmarks tab in Homepage.

**PRINT**
The Measure can be printed or downloaded in PDF format.

**LEAVE A FEEDBACK**
Send a textual comment to the Security Hub Administrators.
Project roadmap


❖ 13 September 2017, Steering Committee: presentation of the project specifications and gathering of inputs and feedbacks.


❖ Late 2018, 14th UIC World Security Congress: gathering of feedbacks among users and planning of needed/appropriate adjustments.
Thanks for your attention

FOR ANY FURTHER INFORMATION:

Visit UIC Website: uic.org/security
Contact us at: security@uic.org