

Action for Critical Infrastructure Protection

European Reference Network for Critical Infrastructure Protection

Our mission is to foster the emergence of innovative, qualified, efficient and competitive security solutions, through the networking of European experimental capabilities.

erncip newsletter no. 17

Joint ERNCIP-IMPROVER Operators Workshop on Resilience of CI

The H2020 IMPROVER project, in collaboration with ERNCIP has planned a series of annual workshops for CI operators with a CI resilience focus. The first two-day workshop of the series was organised in Ispra, on April 27-28, 2016 and it aimed “to strengthen the collaboration with CI operators and to receive feedback on their requirements and practises with respect to resilience”. The main theme of the workshop was “Resilience of Critical Infrastructures”. To this end, the following aspects of resilience were examined:

- Organisational resilience of CI operators;
- Resilience indicators of CI operators;
- Community resilience.

Dedicated working sessions were designed to explore further these themes, two of which were group-based and one was on the plenary. For the first working session, the participants were assigned to three different groups. For the last theme, a plenary open discussion was titled “Resilience for smart societies: the link between critical infrastructure resilience and community resilience”. A moderator with civil protection experience was selected to drive the conversation. Finally, the workshop concluded with a special session on the experiences gained by the ERNCIP Thematic Groups with respect to pre-normative research. This was considered beneficial for the IMPROVER project in order to see how its activities could lead to standardisation.

The agenda, and presentations of the workshop can be found in the ERNCIP website.

Two more workshops are planned by ERNCIP and IMPROVER. Initial thoughts for the next workshop (Spring 2017) include collaborating with other relevant H2020 projects that work on the same theme, in order to further strengthen the continued collaboration among H2020 DRS-07-2014 projects and ERNCIP. The aim would be to allow CI operators to learn about more research results, while at the same time, identify future strategic input to the pre-normative work of ERNCIP and to the policy-making cycle (DG HOME).

For news and results from the IMPROVER project, visit the IMPROVER website. at <http://improverproject.eu>



Training for Professionals in CI Protection & Resilience

The ERNCIP Pilot Course in Critical Infrastructure Protection and Resilience for mid-career security managers took place in Brussels from the 21st to the 23rd of June 2016. Preparation for this course started in early 2015, gathering the requirements of operators and identifying subject matter experts available to lecture to the course. The course started with a day of theory before moving on to more practical discussion around real cases in the sectors of Energy and Transport, with a strong focus on transboundary externalities and cooperation. A roundtable on Operator Security Plans and lesson learned from neighbouring-Member States exercises was organised. The final day of the Course, an exercise based on a cyber scenario took place involving all the 22 participants, the lecturers and the panel of Observers (composed of experts from Member States' governments, from academia and from the European Commission's DG Migration and Home Affairs and DG Connect). This resulted in an intense discussion on the importance of training related to transboundary cooperation between governments and operators, in order to raise awareness on specific incidents and accidents that require a coordinated and multi-national intervention. On the successful conclusion of the course, participation was recognised by the award of a training certificate. A final report about this course including the entire training package, will be released around mid-september 2016.



ERNCIP Group of EU CIP Experts 29 June 2016, JRC Ispra

Experts from thirteen Member States attended this meeting, and received updates on all of the eight ERNCIP thematic groups (TG) currently underway. Detailed presentations were provided to the Group by the Coordinators of three TGs: the Detection of Explosives and weapons in Secure locations, Applied Biometrics for the security of CI, and the Detection of Indoor Airborne CB agents. The opportunity was taken to visit the European Laboratory for Structural Assessment, during which a full update was provided on the Resistance of Structures to Explosive Effects TG. The experts were updated on the outcome of the ERNCIP “Training for Professionals in Critical Infrastructure Protection and Resilience”, which had completed the previous week. The meeting finished with a lively discussion about the possible themes that should be considered for future ERNCIP TG activity in 2017 onwards.

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JRC102554



Detection of Indoor Airborne Chemical and Biological Agents

1 April 2016, JRC Ispra
30 June 2016, JRC Ispra

During the second meeting of the group, the members discussed the status of each work item. The group has successfully completed the first report: "Definition of relevant scenarios of indoor airborne threats (chemical and biological) in critical infrastructures". The group formed two sub groups, focusing on chemical and biological agents and discussed the progress on the three upcoming reports:

- Report on the critical review of existing sensors available in the EU and used for indoor Detection, Identification and Monitoring (DIM) for chemical agents
- Report on the critical review of existing sensors available in the EU and used for indoor DIM for biological agents
- Report on computational simulations of indicative scenarios related to release of (a) chemical agents and (b) biological agents in CI.

During the third meeting the group split in two sub groups and discussed the progress on the two reports on "critical review of existing sensors available in the EU and used for indoor DIM" for chemical and biological agents. Each sub group presented their current results and draft versions of the deliverables and planned the next steps for their completion. The two experts working on the "Report on computational simulations of indicative scenarios related to release of (a) chemical agents and (b) biological agents in critical infrastructures" presented their current progress and discussed how this report will link to the other two reports. Since there will no other meeting in the upcoming months, the group discussed the content of the "Report on the identification of gaps and requirements definition for next generation detectors in the EU", which is the last planned output of this group for this year and will draw on the conclusions by all the other reports. Moreover, the group discussed briefly future topics and directions, as well as research topics that emerged during this work, but require a different funding scheme. The biological agents sub group had previously met in Ispra on 20-21 June to discuss their contribution to the report.



Chemical and Biological Risks to Drinking Water

11 - 12 May 2016, WRc Premises, Swindon UK

Primary purpose of this meeting was to progress the planned 2016 tasks for the following activities:

- Water Security Plan: the synthesis of the three 2015 reports focusing on online monitoring systems, as one part of a water security plan has been acknowledged. The experts have discussed the consultation of the relevant stakeholders in Member States and national drinking water associations (via EUREAU). The first draft of a survey was delivered.
- Technical questionnaire: planning has been presented and agreed. The aim is to investigate the availability and suitability of online monitoring techniques to detect variations in water quality caused by intentional and unintentional contamination of drinking water distribution networks.

The Validation Workshop is planned to be in Brussels on the 12th and 13th of December, 2016. It will be included in a event on Water Safety and Security jointly organised by DG HOME, DG ENV and JRC.



Resistance of Structures to Explosion Effects

18 May 2016, The Netherlands

The main purpose of this meeting was to streamline our contribution to CEN TC33 concerning standardization of blast testing of windows. Feedback was collected from the first presentation to a national mirror of CEN TC 33 of our proposals, with the presentation updated for further use. Next CEN TC33 WG1 meeting will be in November in Germany where members of the ERNCIP group will participate. Ideas for further work in 2017 were discussed.



Detection of Explosives and Weapons Threats at Secure Locations

24 May 2016, Brussels

It was agreed that the current activity will run until the end December 2016, and will focus on high-throughput secure locations and public places / mass transportation locations (without secure perimeter). In view of future H2020 calls, the Group is planning to draft some recommendations for more R&D including vehicle, people & possessions screening.



Applied Biometrics for Security of CI

26 May 2016, JRC Ispra

The Group reviewed the activities underway relating to the progress of the new ISO standard for facial recognition from CCTV, and the new CEN standard for use of biometric systems for physical access control, including the collation of comments on the latest drafts for forthcoming standardisation meetings. The opportunity was taken to discuss the potential biometric technology-related issues that could be proposed for future ERNCIP thematic group activity in 2017.



European IACS Components, Cyber-Security Compliance and Certification Scheme

25 May 2016 and 28 June 2016, Brussels

The Group has made use of the last two meetings to finetune the understanding and the overall vision of the pillars for the final report to be published in late 2016. Discussion has led to an intense technical discussion regarding common requirements, security profiles and compliance and certification process. The outcome of the discussion was cristalized in internal documents that have since been redistributed to the group in order to verify the common understanding and agreement around the topics that will constitute the final report. During last meeting the Group decided to improve the main concepts during the summer and reconvene in late September 2016 to finalise the remaining details that should lead to the production of the final report.



Radiological and Nuclear Threats to CI

20 - 22 June 2016, Eggendorf, Austria

The primary purpose of this meeting of the robotics sub-group was to observe the trials of robot-carried detectors of radiological substances against scenarios previously established by the thematic group. Around ten robots were tested within a controlled warehouse environment, wherein different types of radiological sources were hidden, along with other items to be discovered by the detectors being carried by remotely-controlled robots. The members discussed the learning from the trials and identified additional parameters for future trials. It was also agreed that the sub-group members will take the opportunity to make all competitors aware of the forthcoming list-mode data format standard, which had been incepted by the previous work of this Group.

ERNCIP externally

VITEX - CIP Exercise, 11-12 May 2016, Amersfoort, NL

VITEX 2016 was the first EU-wide exercise focussed on the effects of large-scale failure of critical (electricity) infrastructure across Europe. The JRC was invited to participate as an expert in the exercise, which was organised by the Dutch National Coordinator for Security and Counterterrorism (NCTV), as part of their EU Presidency activities. This desk-top exercise lasted two full days and was focused around a scenario of rolling blackouts throughout Europe due to lack of electricity generation caused by adverse meteorological events. The organisers divided the participants into facilitators, players, experts and observers. The role of the experts was to ensure that the discussions stayed factually in line with the exercise scenario, that the issues that needed to be addressed were thoroughly discussed and, in close collaboration with the facilitators, that the whole procedure was on track. Many Member States participated fully, with government authorities and power distribution organisations being very well represented.

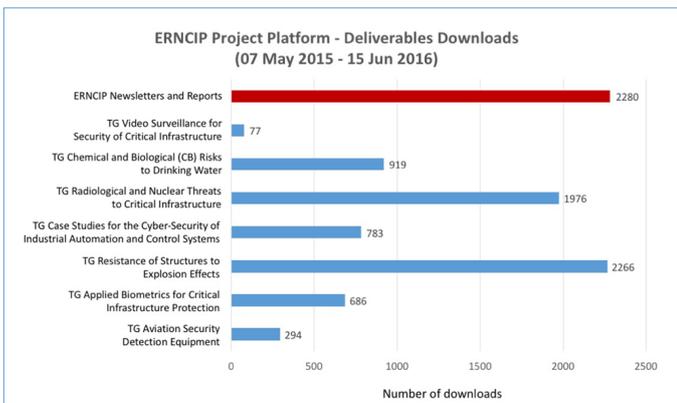
Platform, Inventory and Standards



The ERNCIP Platform

<https://erncip-project.jrc.ec.europa.eu/>
Statistics of the Thematic Group reports and deliverables

The statistics presented in this table only refer to the period from May 2015 to June 2016. They represent the number of downloads during this timeframe. Please note that some deliverables are classified and therefore not available for download.



ERNCIP Thematic Groups: Downloads of published reports

Future ERNCIP meetings

- Applied biometrics for critical infrastructure protection
JRC Ispra, 4 August 2016;
- European IACS components cyber-security compliance and certification scheme
4 October 2016.

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Publications & Reports

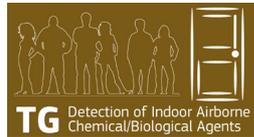


ERNCIP Thematic Group
Video Surveillance for security of critical infrastructure

JRC102121

Video analytics adoption: Key considerations for the end-user

See full report at <https://erncip-project.jrc.ec.europa.eu/>



ERNCIP Thematic Group
Detection of Indoor Airborne Chemical & Biological Agents

JRC102091

Definition of relevant scenarios of indoor airborne threats (chemical and biological) in critical infrastructures

See full report at <https://erncip-project.jrc.ec.europa.eu/>



ERNCIP thematic group
Chemical and Biological (CB) Risks to Drinking Water

JRC101135

Proposal of Water Security Plan to improve detection of Events in the Distribution Network affecting Drinking Water Quality

JRC100533

Synthesis of existing legislation, guidelines, standards, organisations and projects related to drinking water safety and monitoring

JRC100531

Overview of standards/guidelines and current practices for vulnerability assessment of Drinking Water Security in Europe

See full reports at <https://erncip-project.jrc.ec.europa.eu/>



ERNCIP thematic group
Detection of Explosives and Weapons in Secure Locations

JRC100589

ERNCIP Detection of Explosives and Weapons in Secure Locations (DEWSL) - Final Report Phase 1

The full report is marked "Limited distribution", which means it should be circulated only to trusted members of the detection and critical infrastructure protection communities.

Please email your interest at erncip-office@jrc.ec.europa.eu