

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. 12

Thematic Group Meetings in Summary

Applied Biometrics TG

8th meeting, 7 October 2014 in Madrid

Five members attended this meeting, held in Madrid to coincide with the discussion of the revised proposals for the Biometrics Access Control standard at the meeting of Working Group 18 of the CEN Technical Committee 224 (8-9 Oct), to which ERNCIP TG members had contributed. The TG meeting was mostly concerned with the outstanding ERNCIP TG work programme tasks, for which revised dates were agreed. The possibility of continued ERNCIP TG activity in this area in 2015+ was also discussed, with a number of new potential objectives being identified.

Radiological and Nuclear Threats TG

7th meeting, 7-8 October 2014 in Teddington

This 2nd meeting on the "Reachback" topic focussed on developing the State of the Art report. Members of the TG presented their perspectives on this topic: "Reachback in France - general critical components", "Integration of list-mode data format to Reachback" and "Standardisation needs in Reachback", drawing on this information to finalise the report. The opportunity was taken for the TG members to visit some of the Research & Experimental Facilities in the National Physical Laboratory.

Video Analytics and Surveillance TG

6th meeting, 30 October 2014 in Brussels

This meeting of the planning sub-group focussed on the status of the deliverables to be produced. The possibility of continued ERNCIP TG activity in this area in 2015+ was also discussed, resulting in a proposal with emphasis on Video Surveillance for security of CI.

Potential objectives include EU standards activities to support the evaluation of video surveillance systems; production of a guide for end-users implementing video surveillance systems; and access to common data sets for evaluation of video surveillance software.

Radiological and Nuclear Threats TG

8th meeting, 30 October 2014 in Bonn

The Group finalised the Reachback work. The main part of the meeting was concerned with use of remote-controlled detection devices. Three core presentations were given by members: "In-field and laboratory testing of radiation detection payloads suitable for remotely controlled rotating wing devices"; "In-field and laboratory testing of radiation detection payloads suitable for remotely controlled fixed wing devices"; and "In-field and laboratory testing of radiation detection payloads suitable for remotely controlled ground vehicles". During the mission, Fraunhofer FKIE arranged demonstrations of their Research & Experimental Facilities including remote sampling controlled by operator-worn suit simulation and remote micro-helicopter use.

Resistance of Structures to Explosive effects TG

12th meeting, 3-4 Nov 2014 in Berlin

The primary purpose of the meeting was to complete the two main Reports of the Group (Numerical Simulations WP2&3 and Testing Methods), and to agree the next steps for 2015. Additionally, BAM arranged demonstrations for the TG Members of their Research & Experimental Facilities, which included testing of concrete construction materials and road infrastructure, and their outdoor explosives blast test range at Horstwalde.



The original mandate for ERNCIP covered activities from 2011 until February 2015, and therefore this phase of ERNCIP is now coming to its conclusion.

The inclusion of new subject matter experts within a thematic group is always welcome, but the launch of these new activities makes this a particularly good time for additional experts to be considered to join these Groups. We are also shaping a new Group to consider **Detection of Indoor Airborne Chemical/Biological agents**, and we would welcome contact from experts in this area.

We are pleased to announce that the Commission (DG HOME and DG GROW, formerly DG ENTR) has asked the JRC to continue with ERNCIP in 2015 and 2016. So, while the work of some of the ERNCIP TGs is now ended, new activities have been commissioned in the following:

- Chemical & Biological Risks to Drinking Water TG
- Radiological and Nuclear Threats to critical infrastructure TG
- Resistance of Structures to explosive effects TG
- Detection of weapons and explosives in secure locations TG.

Experts need to represent an organisation with a recognised competence in the thematic area. If your organisation is interested in learning more about any of these Groups, and you are able to devote some of your time to actively contribute to the achievement of the objectives of the TG, please contact the ERNCIP Office or please see ERNCIP Platform for more info at <https://erncip-project.jrc.ec.europa.eu/>

ERNCIP externally

9th International Conference on Critical Information Infrastructures Security - CRITIS 2014

13-15 October 2014 in Limassol, Cyprus

The ERNCIP office was present in **CRITIS 2014**. This year's conference continued a well-established tradition of successful annual conferences, which aim at bringing together researchers and professionals from academia, industry and governmental organizations working in the field of the security of critical infrastructure systems. During the conference, details regarding CRITIS 2015 were also announced. The 10th International Conference on Critical Information Infrastructures Security will be hosted by Fraunhofer IAIS in Fraunhofer Forum, Berlin (5-7 October 2015) and Erich Rome (Fraunhofer IAIS) will be the General Chair. M. Theocharidou from the ERNCIP office will act as Programme Committee Co-Chair, together with Stephen Wolthusen (Gjøvik College and Royal Holloway London). Further information will be available on <http://critis2015.org/>.

Publications & Reports Abstracts



Review of methods for the rapid identification of pathogens in water samples

ERNCIP thematic group

Chemical & Biological Risks in the Water Sector

Microbiological water contaminants represent an acute health risk in drinking water. There are a wide variety of bacteria and viruses that can potentially be found in drinking water resulting from either an attack or a natural contamination incident. Whatever the origin of the contamination, rapid identification is needed to ensure water quality and subsequent citizen safety. See full report at <https://erncip-project.jrc.ec.europa.eu/>



Critical parameters and performance tests for the evaluation of digital data acquisition hardware

ERNCIP thematic group

Radiological and Nuclear Threats to Critical Infrastructure

Recent developments of digital data acquisition systems allow real-time pre-processing of detector signals at a high count rate. These so-called pulse processing digitizers are powerful and versatile instruments offering techniques which are important for nuclear security, critical infrastructure protection, nuclear physics and radiation metrology. Certain aspects of digital data acquisition affect the performance of the total system in a critical way and therefore require special attention. This report presents a short introduction to digital data acquisition, followed by a discussion of the critical parameters which affect the performance in the lab and in the field. For some of the parameters, tests are proposed to assess the performance of digital data acquisition systems. Good practices are offered to guide the selection and evaluation of digital data acquisition systems.

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



ERNCIP Group of EU CIP Experts
9th meeting
1 October 2014 in Brussels

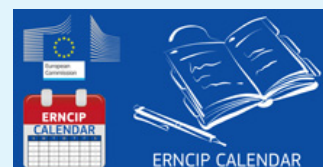
13 Member States were represented at this meeting. Attendees were briefed in detail on the progress made by the ERNCIP's Chemical & Biological Risks to the Water sector and Resistance of Structures to Explosive Effects TGs by the Groups' Coordinators, respectively from the Austrian Environment Agency, and Fraunhofer EMI, Germany. The meeting was briefed about recent ERNCIP developments. The JRC Review on the impact of ERNCIP was approaching Member State CIP authorities for input, and attendees agreed to ensure appropriate feedback would be provided to the Review. The updated ERNCIP Platform was demonstrated, and was generally well received by the members. Finally, the plans for the continuation of ERNCIP when its current mandate completes in early 2015 were presented.



ERNCIP Academic Committee
3rd meeting
20-21 October 2014 in Ispra

The 3rd meeting of the ERNCIP Academic Committee had a specific focus on training for security professionals for critical infrastructures. This topic had been highlighted as objective of major interest at the 2nd ERNCIP Operator Workshop held in Ispra in May 2014 and as ground where interaction between Academia and Infrastructure Operators should be further promoted. Security firms, operators and academia provided their own perspectives on the topics discussed. During the first day a video conference was organized with George Mason University's Department of Homeland Security and CIP (USA) for a presentation of their 'comprehensive graduate level curriculum and supplemental case studies in critical infrastructure security and resilience (CISR)'. The AC, after careful discussion, decided to work on the development of "science-based training for professionals in critical infrastructure protection and resilience". The proposal will be soon available on the ERNCIP website together with information regarding the activities that will be carried on toward this objective.

Jan - March 2015 TG Meetings



- Chemical & Biological Risks in the Water Sector TG on the 15-16 January 2015 in Ispra;
- Kick-off meeting of the Detection of Explosives and Weapons in Secure Locations TG on the 26 January 2015 in Brussels;
- Applied Biometrics TG on the 29 January 2015 in Ispra;
- Resistance of Structures against Explosion effects TG on the 3-4 February 2015 in Ispra;
- Radiological and Nuclear Threats TG on the 4-5 February 2015 in Madrid;
- Video Analytics and Surveillance TG on the 19 February 2015 in Brussels (tbc);
- ERNCIP Academic Committee's focus group with infrastructure operators on the 26 February 2015 in Brussels (tbc).

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