

# 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. 15

### Thematic Group Meetings in Summary



#### Detection of Explosives and Weapons at Secure Locations

4<sup>th</sup> meeting, 3 November 2015, Brussels  
5<sup>th</sup> meeting and DEWSL Stakeholder Consultation Workshop, 15 December 2015, Brussels

In the 4<sup>th</sup> meeting, the group discussed the conclusions and recommendations of the assessment of possible standardization activities for detection of explosives and weapons at secure locations with medium throughput, and established levels of priorities within each application analysis. The objectives and tasks foreseen for 2016 were fine-tuned for submission within the proposed 2016 Administrative Arrangement with DG HOME.B.4. The overall objective will be to extend the work done so far by instigating the production of EU standards or guidelines. Additionally, the Group has proposed to investigate how best EU standards activities could support user needs for mitigating the risk of explosives and weapons attacks focusing at secure locations with high throughput (e.g. large sporting and entertainment events) and at public places/mass transportations locations. The main objective of the 5<sup>th</sup> meeting was to prepare for the validation workshop in the afternoon with EU stakeholders. The draft working papers and recommendations previously circulated were discussed and a revised version was agreed by the experts. The members also agreed on extending their work in 2016 to 'open' locations that do not have a secure perimeter where screening can be carried out.

#### DEWSL Stakeholder Consultation Workshop

The workshop was attended by approximately 20 participants made up of facility operators and security managers as well as representatives of the security directorate of the Commission, TAXUD, DG HOME, DG JRC, a seconded expert from the US NIST, and representatives of EOS (European Organisation for Security) representing security equipment manufacturers, system and service providers. Expert members of the Group presented their analysis and recommendations, which was followed by a comprehensive discussion with all stakeholders present. The attendees agreed with the analysis of needs and gaps, and strongly supported the Group's recommendations and priorities. The workshop also identified the need for guidance to support managers in carrying out risk assessment, cost-benefit analysis and in designing screening processes that are effective, proportionate, non-intrusive and which minimise the impact on the normal flow of activity. Measurement tools and standards are also required for equipment, people and processes.

### JRC-NIST Exchange Program

William Billotte is the program manager for the national security standards program at the US National Institute of Standards and Technology (NIST). He is here at JRC until August 2016 as part of a new JRC-NIST Exchange Program. Bill is collaborating with the ERNCIP project on critical infrastructure protection bringing his experience and knowledge of US standardisation and technology activities. The program aims at identifying possible common projects and establishing stronger relations between the two organisations.



#### Chemical & Biological Risks in the Water Sector

12<sup>th</sup> meeting, 13-14 October 2015, JRC Ispra  
13<sup>th</sup> meeting, 11 December 2015, JRC Brussels

In the 12<sup>th</sup> meeting, the much-delayed work programme for 2015 was agreed by the TG members for submission to the ERNCIP Office and DG HOME. Activities were defined within the 2015 programme to set out the elements required for a Water Security plan. The primary purpose of the meeting in Brussels was to discuss the draft reports and finalise the deliverables of 2015 Work Programme. The members agreed that contacts with national standardisation bodies is now a priority in order to obtain the support for the envisaged future standardisation activities that will better ensure the security of drinking water against contamination.



#### Video Analytics and Surveillance

1<sup>st</sup> meeting, 15 September 2015, Brussels

The Group discussed the benefits of extending the involvement in the Group's work to all experts that had previously shown interest in this topic. The coordinator agreed to invite wider participation in the agreed tasks. Discussion on the differences in legislation between Member States regarding privacy that could be slowing down research and development in video analytics, led to identification of future actions to consider what this Group could do in this area. Discussion on the draft video analytics user guide led to agreement that a case study should be added to the user guide, giving examples of when video analytics would be most effective. The approach to the task on the availability and identification of testing data sets within the EU and how best to enable collation and common access to them was discussed, with some concern expressed that there is possible duplication with data sets in the U.S. The Group will therefore prepare a report on existing data sets and the complexities in compiling and maintaining them.

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### European IACS Components, Cyber-Security Compliance and Certification Scheme

1<sup>st</sup> meeting, 25 September 2015, Brussels  
2<sup>nd</sup> meeting, 11 December 2015, Brussels

The TG reconvened to follow up on the 'Proposal for a European Testing and Certification Scheme for the Cyber Security of IACS Components' produced by the TG in late 2014 which sets out a research project based on four streams. The main activity is now to explore the feasibility of the establishment of a European Certification scheme based on sector-specific testing standards, national testing protocols and products' security profiles.

The kick off meeting of the Thematic Group was focused on the preparation of a draft work programme based on the Proposal, and on the identification of additional experts and how to recruit them. The early stages of the work have clearly shown the need to split the work into subgroups in order to perform the following tasks: (1) To extract from designated existing standards, their common good practices and requirements and to organize them into a common classification; (2) To define Generic IACS Cyber-security Profiles including classes of IACS products and target levels of cyber-security, operating and security environments; (3) To define a common process for each of the levels of the proposed European IACS components Cyber-security Compliance & Certification Scheme. The objective of the Group is to have an early picture of the overall scheme available by August 2016.



### Radiological and Nuclear Threats to CI

10<sup>th</sup> meeting, 29 Sept-01 October 2015, Ispra

The Group was updated on the status of the EMPIR DIGITALSTD project, which was finalising a new list-mode standardisation work item proposal, based on the previous work of the TG, which was accepted by the IEC/TC 45 in February 2016. The 31 replies to the List-mode questionnaire were discussed, with the output being prepared as a technical report for input to the standardisation project. The results of the reachback (8 Member States) and robotics (44 replies) consultations were also discussed, concluding that the Group needs to undertake awareness raising on reachback during 2016. In both cases, the results of the consultations will be presented in the form of 'state of the art' reports.

Finally, a outline work plan for 2016 was assessed, modified and agreed, for submission to DG HOME as part of the 2016 funding request. The need to expand the membership of the Group was identified, and PIAP (PL) and University of Oulu (FI) will join the Group. Kari Peräjärvi (STUK) announced that he would no longer be able to coordinate the activities of the Group, and was thanked by the JRC and the other members of the Group for his successful co-ordination of the Group over the last three years.



### ERNCIP Group of EU CIP Experts

11<sup>th</sup> meeting, 11 November 2015, Brussels

The primary purposes of this meeting were to provide the ERNCIP advisory group of Member State representatives with:

- An update on the current status of all the ERNCIP thematic group activities, including a full presentation by the coordinator of the thematic group for European IACS Components Cybersecurity Compliance and Certification scheme.
- Proposals for a training course on critical infrastructure protection and resilience for security managers, to be piloted in 2016.



### Detection of Indoor Airborne Chemical-Biological Agents

1<sup>st</sup> meeting, 16-17 September 2015, JRC Ispra

During the first meeting of the group, the members agreed on their methodology and the planned work programme, subsequently approved by the ERNCIP Office. The results of two EU projects were presented by members of the group, i.e. the FP7 projects SPIRIT and TWOBIAAS. The group discussed in detail its first task, the "definition of relevant scenarios of indoor airborne threats (chemical and biological) in critical infrastructures".



### Applied Biometrics

1<sup>st</sup> meeting, 5 October 2015, Brussels  
2<sup>nd</sup> meeting, 2 December 2015, Paris

The need to strengthen the group's membership in order to provide a critical mass of experts for the proposed tasks was identified. Recruitment tasks were delegated to the members to increase active membership. The CEN standards activity on the use of biometric systems in physical access control will submit a new work item to the meeting of CEN TC 224 WG18. The group also agreed to evaluate and develop contributions to the ISO standard for Biometric Systems, Facial Recognition from CCTV Systems.

The primary purpose of the 2nd meeting was to agree the Group's input into the CEN TC 224 working group 18 meeting, scheduled for the following day, on the new proposals for standards for the use of biometrics in physical access control, which were due to be balloted at the next meeting. It was noted that these proposals for standards make specific reference to the EPCIP Directive 2008/114 and the European Programme for CIP. Also, comments received on the current draft of the ISO standard for Biometric Systems, Facial Recognition from CCTV, were discussed, in preparation for the next ISO meeting in January 2016.

## 1st IMPROVER workshop

The Horizon 2020 project IMPROVER (Improved risk evaluation and implementation of resilience concepts to Critical Infrastructure), aims to improve European critical infrastructure resilience to crises and disasters through the implementation of resilience concepts to real life examples of pan-European significance, including cross-border examples.

The first IMPROVER workshop was held on the 25th September 2015 and it aimed at gathering information from associated partners and experts in the field about their views on resilience, methods and concepts used, and challenges they meet. With over thirty participants, the group was able to gather information and facilitate fruitful discussions.

Some results can be found on the project's website on: <http://improverproject.eu>

## Platform, Inventory and Standards



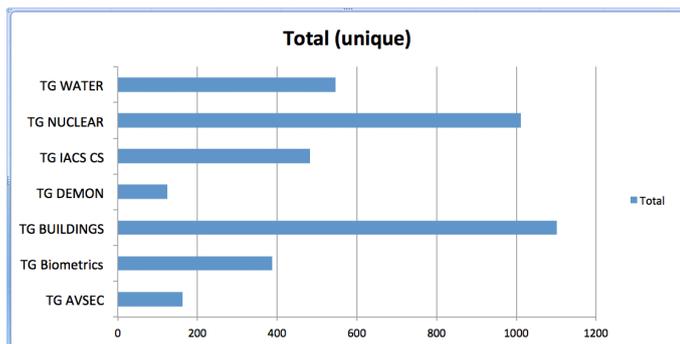
### The ERNCIP Platform

<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 December 2015. They represent the number of downloads during this timeframe.

Please note that some deliverables are classified and therefore not available for download.



ERNICIP Thematic Groups: Downloads of published reports

## Future ERNCIP meetings

- ETSI Technical Committee Cyber Security Sophia-Antipolis, 8 February 2016;
- European IACS components cyber-security compliance and certification scheme - Project 3 Kick-Off Paris, 12 February 2016;
- Chemical & biological risks to drinking water JRC Ispra, 24-25 February 2016;
- Video surveillance for security of critical infrastructure Schipol Airport, 1 March 2016;
- CIPRNet plenary meeting JRC Ispra, 7-8 March 2016;
- Resistance of structures to explosion effects Efringen-Kirchen, Germany, 9 March 2016;
- Applied biometrics for critical infrastructure protection JRC Ispra, 10 March 2016;
- Detection of Indoor Airborne Chemical-Biological Agents JRC Ispra, 1 April 2016;
- Joint ERNCIP-IMPROVER Operators Workshops on Resilience of Critical Infrastructure JRC Ispra, 27-28 April 2016.

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## ERNICIP at external events

### Workshop/Training Programme on Critical Infrastructure Protection

14<sup>th</sup>-15<sup>th</sup> December 2015, Athens

The Center for Security Studies (KE.MEA.) in cooperation with DG HOME and Joint Research Centre organized the Workshop/Training Programme on "Critical Infrastructure Protection" on the 14<sup>th</sup> and 15<sup>th</sup> December 2015 at the premises of KE.MEA in Athens (Greece). KE.MEA. is the research and consulting body of the Greek Ministry of Interior and Administrative Reconstruction and constitutes the National Authority regarding Critical Infrastructure Protection as well as the official Contact Point with the European Commission relevant authorities and the EU Member-States for the protection of the European Critical Infrastructures.

Experts from JRC and KE.MEA. designed and delivered this program to over 160 high-ranking national stakeholders from the private and public sector, with the goal to enhance awareness regarding Critical Infrastructure's security, resilience, interdependency and business continuity. More specifically, representatives of the Energy, Transportation and Communications Sector, of public authorities (Ministry of Interior and Administrative Reconstruction, Ministry of Health, Ministry of Environment and Energy, Ministry of Infrastructure, Transport and Networks, Ministry of Maritime and Island Policy, Ministry of Economy, Development and Tourism, General Secretariat of Information and Communication) and representatives of institutions and organizations, as well as independent authorities, were in attendance. The Dutch approach to Critical Infrastructure Protection was also presented by representatives of the Ministry of Security and Justice (Netherlands).

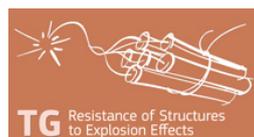
### International Conference on "Challenging Terrorism"

9 September 2015, Glasgow

The JRC was invited to present at this conference on research activities being conducted at the EU level on security matters. During the second part of the Conference, which discussed how to meet the challenges of terrorism, the ERNCIP Office presented the current work underway on the Thematic Network on Critical Energy Infrastructure (TNCEIP), on the EU Incident and Threat Information Sharing Centre (ITIS-EUC), and on ERNCIP.

The conference, organised by Police Scotland, was very well supported, mainly from security agencies from the UK, with Australian, Canadian and US participants. Other speakers included the Justice Minister from the Scottish Government, the Chief Constable of Police Scotland, the Deputy Director of the UK Security Service, and the Deputy Under-secretary for Science and Technology of DHS, US.

## Publications & Reports



### ERNICIP thematic group Resistance of structures to explosion effects

Recommendations for the improvement of existing European norms for testing the resistance of windows and glazed façades to explosive effects

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