

PSCE Headlines n°3 / 2015

Public Safety Communication Europe Forum

December 2015



Forum for Public Safety Communication Europe

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PSCE CONFERENCE IN OXFORD

The upcoming PSCE Conference & H2020 Brokerage event will be held on 8-9-10 December 2015 in Oxford, UK.

Conference sessions

What is the roadmap for PPDR 4G?

In this session we would like to discuss the roadmap towards deployment of interoperable broadband applications, services, devices and networks for PPDR. What have we learned from existing systems? What are the possible expectations and requirements for next generation broadband interoperable systems? How do we get there from where we are now, to having live and trusted broadband applications, services, devices and networks for PPDR?

Will 4G transition to 5G? Do we have to start again? What new benefits will 5G bring for Public Safety?

Anticipated timeframes for adoption of broadband for PPDR, based on 4G, almost overlap the IMT2020 and EC's timeframes for availability of 5G technologies. What will 5G offer and will it support mission critical communications for PPDR? What are the benefits of 5G for public safety services? Will there need to be a major technology overhaul for adoption of 5G shortly after we have succeed to deploy 4G for PPDR? How should the public safety communication community be prepared for or interact with 5G activities?

Debating the results of WRC'15 - Is 700MHz going to be available for Public Safety, by what means, and by when?

What are the results from WRC'15? How do they translate to what our audience will understand? How does this affect the European roadmap to 4G?

The increasing deluge of Social Media, and Information Exchange for Emergency Management: What are the challenges from a social, legal and ethical perspective?

How is social media used in public safety operations today and what are the future plans? How is this information used ethically and within legal frameworks? Will the new EU data protection regulation change things? How can new technologies and techniques improve the value we gain from social media to support investigations, preparation and operations both monitoring and informing the public and environment. What are the consequences of ethical and data protection considerations for PPDR professionals?

Key challenges for the security and resilience of next generation mobile broadband for PPDR

Next generation broadband PPDR Applications, Services, Networks and Devices will be able to carry a richer variation of information. This is already available for consumers. However, public safety communications requires to operate under much more stringent operational criteria - primarily availability, and sensitivity of information. How can we take these commercial technologies, install and manage them within these more stringent security and resilience requirements? How will the security and resilience landscape change during the timeframe towards deployment of broadband applications, services, networks and devices? Can we prepare for future threats? What are the current threats? What can be done to minimize the risk of higher threats.



H2020 Brokerage event

Development of new partnerships and cooperation is again on the agenda of the conference.

PSCE is committed to continue its approach that has proven to be successful in the recent years and helpful for its members.

PSCE invites to consider new proposals and leverage the strength and balance of PSCE's members (users, industry and research) to create excellent winning consortia and project proposals for Horizon2020.

There are a limited number of speaking slots so all the interested stakeholders should act quickly taking account the following instructions.

Experience tells us that winning proposals start to prepare long in advance of the deadline, so our conference in December is well timed for preparing new consortia early.

Two work programmes have recently been published and have relevance towards our public safety community:

1. “Secure societies –Protecting freedom and security of Europe and its citizens” is available below citing deadlines in August 2016 and 2017
2. The LEIT ICT call for proposals cites deadlines in April and November 2016 and April 2017

All participants are invited to present their project ideas in a short presentation covering:

- Project Idea,
- Work programme topic,
- Capability of partners needed,
- Any planned preparation activity (timeplan, telco’s, meetings etc).

PSCE will only accept proposal presentations and not general company/organization presentations. Allocations will be made on a first come, first served basis.

The ultimate deadline for the submission of a short presentation is by the 4th of December 2015.

“Secure societies –Protecting freedom and security of Europe and its citizens” is available here:

http://ec.europa.eu/research/participants/data/ref/h2020/wp/2016_2017/main/h2020-wp1617-security_en.pdf

The LEIT ICT call for proposals is available here:

http://ec.europa.eu/research/participants/data/ref/h2020/wp/2016_2017/main/h2020-wp1617-leit-ict_en.pdf

SAMi2 dissemination event

PSCE Conference in Oxford will also host the SAMi2 event.

Social networking is one of the most popular online activities worldwide, transforming OSNs in a mirror of society where both legal and illegal activities are present.

SAMi2 aims to prevent and fight against illegal actions in Internet through the use of the public information available into Social Networks, mainly in Twitter. It is conceived as a potential helping tool for the police and security forces in automatizing the OSN monitoring process currently carried out manually.

SAMi2 crawls the OSNs and realizes an in-depth semantic analysis using the most-up-to-date technologies and approaches in Natural Language Processing in order to

extract all the relevant pieces of information for the prevention and detection of illegal activities. These results are presented in a near-real-time manner to the security forces, that in order to adapt them to their specific needs; further evaluation of accuracy of the results by users through machine learning allows the system to refine the results.

In addition, to be able to use the captured content as forensic evidence and trial in court actions, SAMi2 integrates a forensic module that allows storing the gathered information with strong encryption. This process is done ensuring that the OSN’s user’s right of privacy and data ownership are observed and that ethical and legal provisions in the law or the OSNs Terms of Service are upheld.

The system can be integrated into already existing systems currently used by security forces to cover all possible scenarios of use such as illegal content detection, crime prevention and forensic uses.

In conclusion, SAMi2 is intended to be a novel and tailored tool for the prevention and detection of illegal activities that arise from Internet through the use and improvement of current state-of-the-art tools in semantics and processing of big amounts of data.

More information is available here:

<http://sami2-project.eu/>

Poster Session

In case you are a partner of a relevant EU-funded project or you simply wish to exhibit related solutions or concepts through the Poster Session, you are invited to send us your inquiry before the 4th of December 2015.

The price of the exhibition is 150 EUR per poster and only registered participants may use this opportunity. All the exhibited posters will be included in the final version of the agenda as well as in the conference report.

Social event and practical information

Social Event at St Peter College

All the conference participants are invited to the Social event to be held at St Peter’s College on 9th December 2015. The participation should be confirmed by ticking appropriate box in the registration form.

Accommodation

Accommodation is available at St Anne's College at £75 per night (approx. 100 €). Please use the link with the promotional code "PSCE19221" and select the conference dates.

Agenda

The Conference Programme is available here:

http://www.psc-europe.eu/fileadmin/files/docs/Events/2015/PSCE_Conference_Agenda_Oxford_9-10_December_2015-Update_25-11-2015.pdf



Registration form

The Registration Form is available here:

http://www.psc-europe.eu/fileadmin/files/docs/Events/2015/PSCE_Conference_Registration_Form_9-10_December_2015_Oxford-31-08-2015.doc

More information about the conference is available on the PSCE Website: <http://www.psc-europe.eu/index.php?id=429>

More information on St Peter's College is available here:

<http://www.spc.ox.ac.uk/conferences/dining-hall>

More information on St Anne's College is available here:

<http://www.st-annes.ox.ac.uk/about>

The link to book accommodation at St Anne's College is available here:

<http://www.st-annes.ox.ac.uk/conferences/accommodation/conference-accommodation>

PSCE Activities



PSCE talks about PPDR and BROADMAP at 5GIC & WTIC workshop in UK

On 26th October, PSCE participated at the 5GIC & WTIC workshop in UK, where PSCE President David Lund gave a presentation entitled "(B)Roadmap to BROADNET – Does 5G have a place?" He spoke briefly about the future of PPDR communications and introduced the new BROADMAP proposal, and extended a kind invitation to the PSCE Conference in December to all workshop participants.

The proposed BROADMAP project, which was submitted to the European Commission on 26th August 2015, paints a picture of what PPDR communications could become in the not too distant future. BROADMAP intends to take the first steps towards future co-funded procurement necessary to enable 'interoperable Next Generation of broadband radio communication systems for public safety and security'. It will serve to enhance interoperability across borders and improve PPDR service to European citizens.

The next PSCE Conference has been scheduled to take place on 9th and 10th December 2015 in Oxford. This is the second of two annual conferences hosted by PSCE. The Conference themes this time will include 4G technologies for PPDR, the transition from 4G to 5G, the benefits of 5G for public safety, as well as the results of the World Radiocommunication Conference 2015 (WRC'15) and the use of social media in emergency management.

More information and registration to the PSCE Conference is available here:

<http://www.psc-europe.eu/index.php?id=429>

More information about the BROADMAP proposal is available here:

http://www.psc-europe.eu/index.php?id=news&tx_ttnews%5Btt_news%5D=442&tx_ttnews%5BbackPid%5D=158&cHash=45f265b9d5

PSCE talks at the FEU Council meeting in Vienna

From November 19th till 21st, Federation of the European Union Fire Officer Associations (FEU) held its Council meeting in Vienna. Manfred BLAHA, PSCE Board Member gave the speech in front of about 40 Fire Service Officers from all over Europe. His speech included the following elements:

- Introduction of PSCE, structure, members, conference
- Explanation of HORIZON2020 and the opportunities for PPDR organisations
- Example for H2020 based on the project proposal for BroadMap
- Information and invitation for the PSCE brokerage event and conference in Oxford

More information about FEU is available here:

<http://www.f-e-u.org/index.php>



Image: Manfred BLAHA, PSCE Board Member at the FEU Council meeting

PSCE participated at the two most important German Public Safety Communication events

Manfred Blaha, Chair of PSCE's User Committee represented the Public Safety Communications Europe Forum at the "CCExpo" in October in Berlin and at the "PMRExpo" in November in Cologne.

At the Critical Communications Expo (CCExpo) he had the opportunity to give a presentation to the audience, introducing PSCE as organisation as well as talking about Public Safety wireless broadband, user requirements and potential solutions on hand of the "Broadmap" project, PSCE

is proposing. Participation at a panel discussing the actual state of play with TETRA networks and the future of Broadband/LTE with representatives of German firefighters, the Berlin police union concluded the appearance on stage.

Additional PSCE could run a booth talking with several Expo-guests about PSCE, its organisation and upcoming events, as well as showcasing the projects CONCORDE, EPISECC and SALUS.

During the PMRExpo, Manfred Blaha was invited to participate at a discussion panel about the future of Public Safety communications. Besides presenting PSCE as organisation, he was talking about the opportunities and benefits, but also challenges EU-funded projects can be giving to PPDR organisations on the example of the "BroadMap"-proposal. He invited guests to join PSCE's brokerage event in Oxford on 8th December.

New PSCE Members: Fraunhofer IAO & Johanniter

Recently Fraunhofer IAO (Germany) and Johanniter (Austria) have joined PSCE as its institutional members.



Fraunhofer IAO ("Fraunhofer-Institut für Arbeitswirtschaft und Organisation IAO", in English "Fraunhofer Institute for Industrial Engineering"), located in Stuttgart, is part of the Fraunhofer-Society, Europe's largest organisation for applied research. Fraunhofer IAO supports governmental and enterprise ecosystems to apply innovative and cooperative information technologies by identifying requirements, translating them into concepts and drawing up a realisation strategy aligned to the market.

In crisis management, Fraunhofer IAO enables governmental bodies, companies and other institutions, media and the public to take actions to reduce the impact of critical events and improve the response capacities. Civil Society Engagement as well as Emergency Management Systems are exploited to support response forces with the capabilities necessary for a fast and informed response. Usability of IT-Systems, processes for reliable information quality, and a competence management for well prepared staff contribute

to an useful and efficient information and communication infrastructure to enable interorganisational collaboration.

More information is available here:

<https://www.iao.fraunhofer.de/lang-en/research/information-and-communication-technology.html>



Johanniter International (JOIN) is the partnership of the national charities originally founded by the Orders of St John. Its members share a common approach to humanitarian welfare and social aid. The organisation serves humanity with emergency medical services and first aid, social care, international aid, training and youth work. It shares the skills and resources to achieve more.

The website of the Johanniter Austria is available here:

<http://www.johanniter.at/>

PSCE extends a warm welcome and looks forward to fruitful cooperation.

PSCE Project Corner

EMYNOS



The EMYNOS project, launched in September 2015, joins 11 organisations across Europe that will work to improve current technologies and design a Next Generation emergency platform enabling communications from citizens to , emergency call centre.

On the 1st September 2015, the new EU-funded project EMYNOS (nExt generation eMergencY commuNicatiOnS) was launched. Led by Fraunhofer Fokus, Berlin , Germany, the project gathers a consortium of eleven different organisations, including telecom/satellite operators, VoIP providers, eCall testers, and end users. This mixture ensures that the consortium comes with the required expertise to achieve the

project goals. . The organisations forming the EMYNOS project consortium are:

- Fraunhofer Fokus (Germany; project coordinator)
- Turksat (Turkey)
- Technological Educational Institute of Crete (Greece, Technical Manager)
- Navcert GmbH (Germany)
- Public Safety Communications Europe (Belgium)
- Serviciul de Telecomunicatii Speciale (Romania)
- VOZTELECOM Sistemas (Spain)
- Harpo Sp.z.o.o (Poland)
- Hellenic Open University (Greece)
- Österreichisches Rotes Kreuz (Austria)
- MCS Datalabs (Germany)

EMYNOS recognises that the current technologies for emergency systems and 112 services are becoming outdated and can no longer match the everyday needs of European citizens. Some of the related limitations of the current technologies are partial media support, a lack of integration of social media, and the use of an analogue modem for providing eCall services with limited data amount. As most operators have started migrating towards broadband IP-based infrastructures few years ago, current emergency systems also need to be upgraded and adapted in order to fulfil the regulatory requirements in terms of Next Generation emergency services.

To this end, EMYNOS seeks to design and implement a Next Generation platform, capable of accommodating rich-media emergency calls that combine voice, text, and video, thus constituting a powerful tool for coordinating communication among citizens, call centres and first responders.

Additionally, issues such as call routing/redirection to the closest available call centre, retrieval of the caller location, hoax calls prevention, support for people with disabilities, and integration of social media will be addressed throughout the course of the project. Some emphasis will also be placed on the new eCall system.

The EMYNOS project will run for two and a half years, until 1st March 2018.

For more information please contact the leader of EMYNOS dissemination activities PSCE (Public Safety Communications Europe) at secretariat@psc-europe.eu.

The project website is available here:

www.emynos.eu

CONcORDE



In line with the world-wide research initiatives on Patient Safety and in line with the priority of the Security Call for research to contribute to Prevention, Prediction and Containment of Damage in health crisis situations, the CONcORDE project focuses on patient safety, which in the context of emergency management means to reduce the Emergency response associated injuries/potential for damage.

CONcORDE's specific contribution to disaster research is to introduce a new point of view, which shifts the paradigm of researching how to handle uncertainty - to a paradigm of user-driven research of how to increase certainty in the first instance. As a Clinical Innovation project it focuses on improving coordination of patient-centered emergency response by addressing the controllable risks to patient safety. With this the project brings the clinically validated Patient-centered approach into disaster research, which will help extract the simplicity hidden in apparently complex environments and enable generalisability across the globe.

The CONcORDE consortium recently issued the first edition of the CONcORDE Newsletter which is presenting the main achievements and findings of the project.

If you have any questions regarding this publication, please contact us at secretariat@psc-europe.eu

Find out more about CONcORDE on the project website:

<http://www.concorde-project.eu/>

EPISECC



The EPISECC project, launched in June 2014, aims to develop a common "European Information Space", which would ultimately become the key element in a future integrated pan-European crisis and disaster response capacity. One of the main purposes of the EPISECC approach is improving interoperability at all levels and, as such, the project focuses on establishing interoperability at both physical (network)

and syntactical (automated information exchange) level.

Recently much work went into remodelling the EPISECC project website. The new version is currently up and running and accessible at www.episecc.eu. The new website is more user-friendly and visually appealing than before. Website visitors have all the main information about the project at their fingertips, including an entirely new "Results" section, which presents the EPISECC publications, presentations, and public deliverables. The new version of the website also includes an embedded Twitter feed and direct links to the EPISECC social media, making it much easier to follow the EPISECC project as it develops. Last but not least, the new project website also provides more information about the EPISECC work plan and methodology.

The role of PSCE in the EPISECC project is linked to identifying user needs. Due to its broad membership base, which includes end-users, research institutes and industrial stakeholders, PSCE has been tasked with obtaining the feedback of these groups on issues relevant to the project. PSCE will also assist in disseminating the results of the EPISECC project.

More information about the EPISECC project is available on its website:

<http://www.episecc.eu/>

DRIVER



2015 TIEMS best academic paper award goes to the DRIVER project

The International Emergency Management Society (TIEMS) held its annual conference in Rome, Italy. With the title "Evolving threats and vulnerability landscape: new challenges for the emergency management", the event's objective was to improve the emergency management attitude to gather new insights from emerging technologies by comparing emergency management operators with technologists in new and emerging technological fields.

DRIVER (Driving Innovation in Crisis Management for European Resilience) project is proud to announce that the scientific paper entitled "Inter-organizational Lessons Learned: Perspectives and Challenges" prepared by DRIVER

team members Dennis Andersson and Pär Eriksson won the best academic paper award.



Image: DRIVER project is awarded with 2015 TIEMS best academic paper

The abstract of the DRIVER academic paper:

“Emergency and crisis management organisations are routinely faced with uncertain and hazardous situations. In these situations, a single decision may be the difference between life and death. In unfamiliar such scenarios, controllers have been found to rely on improvisation and gut feeling; whereas in scenarios where they can relate to prior experience, decisions are made based on known procedures and experiential knowledge. Lessons learned processes are commonly employed to spread experiential knowledge and increase the robustness of an organisation, however this intra-organisational lessons learned processes seldom reach their full potential. It appears even rarer to share knowledge over organisational boundaries in other forms than through personnel takeover. Guided by interview data from several European organisations with an identified responsibility in within their respective national crisis management systems, this study sets out to identify common challenges for intra-organisational lessons learned and extrapolate on them to identify recommendations for inter-organisational knowledge sharing. The results of this study serve as a first step to define a pan-European vicarious learning framework for crisis management organisations.”

More information is available on the project website:

<http://driver-project.eu/>

Joint PPDR opinion regarding RSCOM. 15-42

On 2 December 2015, 28 PPDR user organisations and operators together with 10 associations, including PSCE, sent their “Joint PPDR opinion regarding RSCOM. 15-42” to Andreas Geiss, the Chairman Radio Spectrum Committee.

The opinion is available on this link:

http://www.psc-europe.eu/fileadmin/files/docs/Events/2015/Joint_PPDR_opinion_regarding_RSCOM15-42_final_v2.pdf

POLICY

Three new consultations launched on spectrum-related topics

The Radio Spectrum Policy Group (RSPG) of the European Commission has launched three new public consultations on various topics related to the harmonisation of spectrum and the EU policy on spectrum. Submissions to all three consultations are welcome until 21st December 2015.

Researchers Suggest Way to Track Population Density by Using Mobile Network Data

Population density and distribution is a key variable in designing strategies or assessing the impacts of existing environmental or social policies. Normally, decision makers obtain this data from national institutes for statistics or other local authorities. However, this data is often inaccurate and out-of-date, and therefore also unreliable.

In an attempt to discover a better way to gather data on population density, the EU’s Joint Research Centre (JRC), in collaboration with researchers from AIT, realized that mobile network data could be a better source for such data, as it could be obtained almost immediately and would be more accurate and up-to-date. Accessing this data, though, is complicated by the existing legislation on commercial confidentiality and personal privacy.



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