

Public Safety Communication Europe (PSCE) is pleased to send you the second 2017 edition of the PSCE Newsletter. We keep you updated on our activities and provide you with the latest EU news and initiatives in Public Safety Communications!

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EU Policy

➤ New measures to strengthen EU Cybersecurity

On September 13, 2017, the European Commission and the High Representative of the Union for Foreign Affairs and Security Policy published a Joint Communication to the European Parliament and the Council of the European Union on “Resilience, Deterrence and Defence: Building strong cybersecurity for the EU”. This Joint Communication is part of a package of EU documents adopted on the same date aimed at delivering a stronger EU response to cyber-attacks. In particular, the Joint Communication puts forward targeted measures to build greater EU resilience to cyber-attacks, better detect cyber-attacks, and strengthen international cooperation on cybersecurity.

Measures to enhance EU cyber-resilience include the swift adoption of a new EU Regulation that reforms the EU Cybersecurity Agency (ENISA) by giving it a permanent mandate, and sets up an EU certification framework with ENISA at its heart; The adoption of a joint European Commission/industry initiative to define a “duty of care” principle, which could reduce product/software vulnerabilities and promote “security by design”; Full and effective implementation of the EU Directive on the Security of Network and Information Systems (“NIS Directive”) by all EU Member States by May 9, 2018.

The Joint Communication also sets out the following key actions to help create effective EU cyber deterrence such as the introduction of requirements pertaining to EU procurement, research and project funding to move to the new protocol (IPv6) at the EU level; The swift adoption of a new proposed EU Directive on combatting fraud and counterfeiting of non-cash means of payment and Enhanced financial support for national and transnational projects improving criminal justice in cyberspace.

Finally, the Joint Communication describes measures designed to develop international cooperation and promote global cyber stability, while contributing to EU strategic autonomy in cyberspace. This includes the establishment of a strategic framework for conflict prevention and stability in cyberspace in the EU’s bilateral, regional, multi-stakeholder and multilateral engagements; the development of a new Capacity Building Network to support third countries’ ability to address cyber threats and EU Cybersecurity Capacity Building Guidelines to better prioritize EU efforts and reinforced cooperation between the EU and NATO.

“Our initiatives strengthen cooperation and coordination so that Europe tackles them (cyber security challenges) together,” concluded Andrus Ansip, Commission Vice-President for the digital single market in a statement. These measures will need to be approved by the European Parliament and member states before becoming law.

❖ The joint communication is available [here](#).



➤ Launch of the European Defence Fund

On June 7th the EC announced the launch of the European Defence Fund. The fund has been created as a response to the increased instability and conflicts in the neighborhood of the EU and to the new security threats that are emerging. These new challenges cannot be addressed by member states alone, hence the need for a comprehensive strategy.

Defence policy has been identified as one of the priority areas of action in President Juncker's political guidelines. In 2016, the European Union laid the foundations for a stronger European defence policy. As part of a comprehensive defence package following up the EU Global Strategy in the security and defence area, the Commission adopted the European Defence Action Plan (EDAP).

This Action Plan sets out the measures needed to achieve greater European defence cooperation and support the competitiveness of Europe's defence industry. It proposed the establishment of a European Defence Fund. The Fund should help Member States make cooperation the norm and thereby develop and acquire key strategic defence capabilities. The European Council welcomed the initiative as well as the Commission's intention to present proposals for the establishment of a European Defence Fund in the first half of 2017.

Work is advancing on the preparation of the Research Window of the European Defence Fund. The European Defence Fund must become a key enabler for the future of European defence. It will support the level of ambition the Union will agree upon when considering the different scenarios towards a Security and European Defence Union, as set out in the reflection paper on the future of European defence.

❖ [Click here](#) for the full EC communication.

❖ [Click here](#) to view the European Defence Action Plan (EDAP)

Past Events

➤ Closing workshop of BroadMap – 6 April 2017

Mission accomplished for the EU-funded flagship project taking the first step towards future procurement of interoperable next generation of broadband radio communication systems for public safety and security! That was the main message of the BroadMap Final Stakeholders' Workshop which took place on 6 April 2017, gathering more than 100 participants from 18 countries representing practitioners and all interested stakeholders of the Public Protection and Disaster Relief (PPDR) community: public authorities, industry, research, regulators as well as the finance sector!

This final Workshop was the opportunity for the attendees to learn more about the project activities and outcomes, now that the BroadMap project is coming to an end after a year of hard work. The BroadMap team presented in detail the methodology adopted throughout the lifetime of the project, to collect and validate practitioners' needs and requirements, to translate them into technical specifications, to elaborate candidate solutions and organization schemes, and finally to produce transition roadmaps towards interoperable broadband radio communication systems.

In its closing address, David Lund, BroadMap Coordinator, thanked all participants for their inputs which will fuel the reflection on the next step, i.e. the preparation of the submission of a proposal to bid in the future competition in the framework of the SEC-04-DRS-2017 call on Broadband communication systems.

- ❖ You may find all the presentations made during the Final Stakeholders' Workshop on the BroadMap projects' website, [here](#).



➤ Success of the PSCE Conference in Munich on 3-4-5 May 2017

On 4 and 5 May 2017, another PSCE conference successfully took place at the Leonardo Munich City South Hotel.

Standardization Workshop – 3 May

The conference was preceded on 3 May by a workshop on Standardization organized as part of the EPISECC project. The event gathered a variety of stakeholders including the European Commission (DG HOME), standardization bodies (ETSI, CEN-CENELEC, 3GPP) the industry (MOTOROLA, HUAWEI, AIRBUS) as well as EU projects (EPISECC, BroadMap, EMYNOS). Overall, the workshop constituted an opportunity to exchange lessons learnt on the pitfalls related to standardization, to identify and evaluate the various tools offered by standardisation bodies and to define recommendations for EU Projects

- ❖ [Click here](#) for an overview video of the workshop

PSCE Conference – 4-5 May

This edition focused on IoT applications for public safety, future broadband, on the ethical considerations embedded in the exchange of information in emergency situations, on cybersecurity, redundancy & resilience, the development of Apps in PPDR and on the use of UAVs (drones) in public safety missions.

In addition to the outstanding presentations given by the key-note speakers, the conference provided an outstanding platform to share information and to exchange points of view in the field of public safety communications. It brought together around 60 participants including top-level policymakers, academic researchers, industrial experts and other interested stakeholders.

This edition was marked by a fascinating guided tour in a mountain rescue simulation center in the vicinity of Munich, which allowed conference delegates to immerse in real life emergency situations and to receive precious feedback from first responders volunteering for the Bavarian mountain rescue.

- ❖ [Click here](#) for a comprehensive conference report
- ❖ [Click here](#) for an overview video of the conference presentations



➤ PSCE at the PSCR Meeting in Texas – 13 June 2017

On June 13th, David Lund (PSCE) successfully participated to the 2017 PSCR Public Safety Broadband Stakeholder Meeting in San Antonio, USA, as part of the International Public Safety Deployment Panel.

David Lund presented the challenges related to the deployment of a public safety network in Europe in front of a room full of international PPDR experts. He explained the role of PSCE as a platform for researchers, industry and practitioners to discuss & exchange good practices in the field of Public Safety and Security and presented the specific approach and characteristics of the H2020 BroadMap Project, funded by the EU to establish an interoperable PPDR Broadband Communication Network in Europe.



- ❖ [Click here](#) to download the conference agenda.
- ❖ [Click here](#) to watch a promotional video of the event

➤ **Joint Workshop by CONCORDE & EPISECC – 11 September 2017**

The workshop “optimizing real time information exchange in disaster & emergency management” successfully took place in Brussels on Monday September 11th.

As both projects will terminate in the next few months, this workshop was the opportunity to present the projects’ results as well as reflect on the work that has been done in the course of the past three years.

The EPISECC project presented its conceptualization of a Common European Information Space (CIS) as a key element in a future integrated pan-European crisis and disaster response capacity. EPISECC worked to develop a common Taxonomy and an ontology model aimed at addressing the Semantic Interoperability issue and also focused on the establishment of Interoperability at Physical (i.e. network) and Syntactical (i.e. automated information exchange) levels.

On the other hand, the CONCORDE project presented the platform it has developed to support and enhance the existing decision processes during medical emergencies at local, regional and cross-border level, from small incidents to large scale emergency situations. The platform was demonstrated showing how CONCORDE has the potential to improve the operational information flow within the emergency medical services, as well as the communication and coordination between people requiring emergency medical help, the responders and a resilient community. The technical innovations brought by the CONCORDE project and a video of a pilot session were presented.

This event gathered a wide range of stakeholders including experts from the public safety & medical emergency domains, researchers, actors from the industry and members of the European Commission (DG HOME).

- ❖ [Click here](#) to download the workshop agenda.
- ❖ Workshop presentations are also available, simply send a message to secretriati@psc-europe.eu



Upcoming Events

➤ **PSCE Conference in Madrid 27-28-29 November 2017**

The next PSCE conference will take place in Madrid on 27-28-29 November, with the support and in the premises of the Spanish National Police.

Workshop on Next Generation Emergency Communications – 27 November

This workshop will foster discussion and information exchange on new and future emergency communications technologies, namely featuring key speeches by the European Commission, Madrid 112, and two European projects: EMYNOS and NEXES. The event is mainly aimed at presenting the EMYNOS project ESInet, particularly in terms of architecture specification and implementation regarding total conversation, WebRTC based emergency calls, accurate location for emergency calls, and solutions for persons with disabilities. Besides, an open hackathon will take place in parallel to the workshop.

We welcome and encourage 112 organisations, research and industry – in particular SMEs - to join the workshop, participate to the interoperability tests, and validate their products and solutions against the EMYNOS ESInet.

PSCE Conference - 28-29 November

This edition of the conference will feature topics such as the first results of Broadband adoption (UK, US, Belgian & French perspectives), IoT for PPDR, Regulatory barriers for PPDR (EU General Data Protection Regulation and the Use of Video in Public Safety). These topics will be presented and discussed by public safety experts in a relaxed atmosphere along with roundtable discussions and collaborative sessions.

In Madrid, we have the honour to count FirstNet amongst our conference speakers. FirstNet is the independent authority mandated to develop, build and operate a nationwide, broadband network in the US. It also equips first responders to save lives and protect U.S. communities. In addition to the US perspective, the UK, French, Belgian and European-Wide perspective on Broadband transition will be presented at the conference. We are honoured to be the first event in Europe to propose such a rich and varied programme.

For this edition, we are also willing to put forward and encourage innovative ideas in by offering Start-ups the opportunity to showcase their product/achievements. A few selected participants will be given the opportunity to briefly present their work during an elevator pitch and present their developments in a dedicated space.

- ❖ To register to the conference/workshop, download [this form](#) and submit it to adm@psc-europe.eu
- ❖ For all practical details including the preliminary conference agenda, visit [this page](#)
- ❖ For more information on how to join the workshop hackathon, send an email to markakis@pasiphae.eu



➤ Priorities of the Estonian presidency of the EU

Since 1st July, Estonia took over the Presidency of the Council of the European Union from Malta, which held the Presidency during the first half of 2017. For this period, the Estonian Presidency has recently presented its political priorities. Estonia will be the first country in the new presidency trio also including Bulgaria and Austria (first and second half of 2018 respectively), which had their trio programme approved by the General Affairs Council on 20 June 2017.

Some of the priorities announced by the Estonian Presidency are focused on innovation and security:

A Safe and Secure Europe

The Estonian Presidency (EP) emphasizes that, only by acting together and preserving its unity on the global stage can the EU keep its citizens safe and promote peace, prosperity and stability. To that end, the EP will focus on:

- strengthening the fight against terrorism and organised crime, strengthening the internal security as well as the protection of the EU's external borders by improving cooperation and using cutting-edge information systems
- continuing the work tackling the migration crisis and reforming the Common European Asylum System
- supporting and strengthening relations with Eastern partnership countries
- an increase in defence expenditure, developing European defence cooperation and the EU-NATO partnership

A digital Europe and the free movement of data

The EP also insisted that Europe must exploit the benefits of the technological progress that is resulting in constant change for citizens, businesses and governments. Therefore, it will also focus on:

- developing cross-border e-commerce and e-services for the benefit of consumers, producers and businesses
- ensuring modern and secure electronic communications available everywhere across Europe as well as creating a favourable environment for new innovative services
- advancing cross-border digital public services to facilitate everyday life

➤ To see the full list of priorities and some associated video clips, [click here](#).



➤ Success of the ETSI Mission-Critical Push To Talk Plugtests Event

On 23 June 2017 took place the ETSI Mission-Critical Push to Talk (MCPTT) Plugtests event, gathering 140 participants from 19 different vendors. The event took place at the ETSI headquarters in Sophia Antipolis, France. The test sessions were observed by seven government and public safety network operator organizations from Belgium, Finland, France, Norway and the UK.

More than 1000 tests were conducted, with a success rate of 85%. The tests are based on 3GPP, ETSI and IETF standards. For this first session, a test specification has been developed for the 3GPP Release 13 MCPTT, comprising 47 test cases. The final tests of the MCPTT Plugtests event included pre-arranged and chat mode Group Calls, which involved several MCPTT clients, a Control Room, a LTE cab radio and a TETRA radio. Adrian Scrase, ETSI CTO, said during the event that “the value of the Plugtests is not only for the vendors in testing their implementations, but also in finding issues in the 3GPP specifications, which will be fed back to the 3GPP working groups.”

Supported by the European Commission, these sessions are the first in the world to test the interoperability of MCPTT products and services, and are conducted to ensure that equipment from different vendors designed to support mission-critical users will work together. The full report on these Plugtests will be posted on the ETSI website in due course. The next MCPTT Plugtests sessions are planned for Q2 2018.

Push-to-Talk (PTT) is a standard feature of narrowband Professional Mobile Radio (PMR) technologies developed specifically for mission-critical communications. PTT enables near instantaneous group communications – a critical requirement in an emergency situation. To ensure that such capability is built in to LTE services, 3GPP has been catalyzed to ensure that LTE supports mission-critical communications, with MCPTT now specified in 3GPP Release 13.

Although the PMR market shows no signs of slowing, mission-critical broadband LTE will offer complementary capabilities, and its market is expected to grow at a compound annual growth rate of 20 per cent, from \$1.1 billion in 2015 to \$2.6 billion in 2020, according to IHS Market. Planned nationwide rollouts in the United States, South Korea, the UK, the Middle East and Asian countries are expected to trigger significant large-scale investments in mission-critical LTE.

❖ [Click here](#) for the original article from ETSI



➤ Europe to be hit hard by climate-related disasters in the future

Weather-related disasters could affect around two-thirds of the European population annually by the end of this century. This could result in a 50-fold increase in fatalities compared to today if no measures are taken, according to a new study by the Joint Research Centre – the science and knowledge service of the European Commission.

The study, which has just been published in the Lancet Planetary Health, combines information on documented disasters with hazard and demography projections until 2100. The weather-related disasters considered are

those with the greatest impacts – heatwaves and cold spells, wildfires, droughts, river and coastal floods and windstorms.

If not curbed, rising temperatures and climate change could expose some 350 million Europeans to harmful climate extremes every year. This substantial rise in the risk of weather-related hazards is mainly due to an increase in the frequency of heatwaves. Other factors behind the projected increase in weather-related risks are population growth and urbanisation.

The study concludes that southern Europe will be hardest hit, and that weather extremes could become the greatest environmental risk for people in the region, causing more premature deaths than air pollution. Recent heatwaves with record-breaking temperatures in Spain are an example of potential future extreme weather conditions, as events of this intensity could occur every year by the end of the century, the authors warn.

The variations in time, place, intensity and frequency of these hazards as a result of global warming were evaluated under a business-as-usual scenario of greenhouse gas emissions, using climate and biophysical models. Long-term demographic dynamics were modelled using a territorial modelling platform to represent the evolution of human exposure. Human vulnerability to weather extremes was analysed based on more than 2 300 records collected from databases of disaster events that occurred between 1981 and 2010, and was assumed to be static (under a scenario of no adaptation).

This study contributes to the ongoing debate about the need to halt climate change and adapt to its unavoidable consequences, as emphasised by the Paris Agreement agreed through the UN Framework Convention on Climate Change. The findings shed light on the expected burden of climate change on societies across different regions of Europe.

❖ [Download the study here](#)

➤ **Public consultation on improving cross-border access to electronic evidence in criminal matters**

The EU Commission has launched a consultation exercise, which is open until 27 October, seeking views on ways to improve cross-border access to electronic evidence in criminal matters.

The objective is to gather input from a broad range of interested stakeholders, including public authorities, judges, prosecutors, EU institutions and agencies, international organisations, private companies, professional and business associations, civil society, academics and the general public.

The aim is to collect information, views and experiences on current practices on obtaining cross-border electronic evidence in Member States as well as on practical and legal problems arising both at national and EU level from any gaps and weaknesses in existing regulations.

The effective obtaining of electronic evidence frequently has cross-border implications. Reliance is usually placed on judicial cooperation mechanisms like mutual legal assistance (MLA) or, within the EU, mutual recognition, on the direct cooperation of service providers, or on direct access to obtain information. All raise different types of issues affecting the success of investigations, sometimes resulting in abandoned and unsuccessful cases.

In the European Agenda on Security, the Commission committed to review obstacles to criminal investigations on cybercrime, notably on cross-border access to electronic evidence. In its June 2016 Conclusions, the Justice and Home Affairs Council asked the Commission to explore possible solutions, including legislative options.

The Commission states that it will assess the scope for horizontal or further sectorial action at EU level, while respecting the principle of subsidiarity. The public consultation is intended to feed this assessment 'without, however, either prejudging any action by the European Union or prejudging the legal feasibility of an EU action with regards to the limits of the Union's competence'.

❖ [More info here.](#)

PSCE News

➤ **Steps Towards Broadband – Policy, Standardisation and Pre-Commercial Procurement**

On 24th August, PSCE submitted proposal BroadWay to the European Commission. This proposal brings together 11 'buyer' organisations representing the ministries and agencies in 11 European countries, who are responsible for public safety mobile communication systems. This project aims to procure innovative solutions from research and industry to achieve a pan-European pilot system, within the 2021 timeframe, to achieve: *'European interoperable mobile broadband for public safety'*

49 letters of support accompany the proposal, received from practitioners across 23 European countries. These practitioners will play a key role to validate these new mobile broadband capabilities. We look forward to official positive news of the proposal evaluation in January 2018, with an expected start date in May 2018.

On 21st of October, PSCE were invited by the European Commission DG Connect to attend the Kick of meeting of a new National Broadband Plans and 5G (NBP/5G) working group of the Communication Committee¹ (COCOM). COCOM is a committee composed of representatives of EU Member States who provide their opinion on the draft measures that the Commission deals with, within the agenda of the Digital Single Market. PSCE were invited to stress the importance that mobile broadband for public safety communication should be included in national broadband plans, and supported by related policy, as each member state defines and implements their national plans for 5G deployment. PSCE's presentation was also reinforced by a presentation made by the French Ministry of Interior who explained their clear plans for adoption of mobile broadband for public safety in France.

On 28th October, PSCE presented the status of this important policy work on broadband activity to the 3GPP Programme Coordination Group (PCG). The PCG is the highest decision-making body of 3GPP. PSCE are a Market Representation Partner (MRP) of 3GPP and regular attend this meeting. We deliver two clear messages:

- That procurement of new broadband capabilities for public safety will be growing in the timeframe 2020-2025, and maturing in the timeframe 2025-2030.
- Mission critical public safety broadband capability should remain a core focus, as the progress is made to standardise 5G and beyond. Mission Critical standardisation should not be put to the

¹ <https://ec.europa.eu/digital-single-market/en/communications-committee>

side because of the swell of commercial interest in new G's. Mission Critical standardisation should remain a strong and core element of future 5G,6G,xG standards.

In support of this activity, PSCE are also working with FirstNet in the US, to bring together critical international mass of those who intend to procure new broadband capabilities across the world. A series of regular meetings of key stakeholders around the world will be planned, following from FirstNet's initialisation of this activity last year. An initial meeting will be held alongside our conference in Madrid, followed by a global meeting in May 2018. Such critical mass is considered essential to ensure that the global standards and technology are aligned ready for the public safety community to be able to procure the solutions that they need.

➤ **PPDR Apps**

Our latest White Paper on PPDR Apps has been issued on April 13th 2017.

The mobile Application (Apps) ecosystem is one of the fastest growing markets in Europe and is considered an essential element within the European Commission's Digital Single Market Strategy, which is primarily focused on providing a better access to goods and services across Europe. Therefore, a review of the role that Apps could play with relation to PPDR operations is long overdue. While the prospective users of PPDR Apps could be anticipated to most likely revolve around the citizen, rather than PPDR end-users, public safety organisations are nonetheless increasingly faced with requirements and offers for Apps to function with the smart-devices and terminals of the future PPDR broadband radio systems. Eventually, these new Apps should contribute to improve PPDR communications from all perspectives (from citizen to PPDR-organisation, between PPDR-organisations and from PPDR-organisations to citizens) and ultimately save the lives of EU citizens.

❖ Download the White Paper [here](#)

➤ **PSCE Policy Review Paper on Mission Critical Communication**

On Mars 8th, PSCE also published a paper addressing the need to review EU policy regarding Mission Critical Telecommunications, taking into account requirements for public safety communications.

This paper describes the need for the review of EU policy and regulation regarding mobile telecommunications, and the potential for infrastructure sharing for the delivery of Mission Critical applications/services, networks and devices. This paper provides a summary of work carried out by the BroadMap project which has studied the current Telecom Package of directive and regulations, NIS directive and other related materials.

❖ The full document is available [here](#)

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