

Thursday 17th November morning

Casa Don Guanella, località Barza, Ispra

9:00-9:30	Registration at the JRC reception desk • Distribution of the questionnaire
9:30	<p>Start of the workshop</p> <ul style="list-style-type: none"> Welcome presentation by Mr Alois J. Sieber, Joint Research Centre (15 minutes) Presentation from the EC and EDA on the objectives of the workshop (15 minutes) <p>Drivers, applications and next steps: views from the stakeholders</p> <ul style="list-style-type: none"> In the area of commercial applications: <ol style="list-style-type: none"> Views from industry - presentation by Mr Jussi Kahtava, Digital Europe (20 minutes) Deployment of TV White Space Devices: A survey among European Regulators 2011 by Thomas Weber, ECO (20 minutes)
10:40-11:00	Coffee break
11:00	<ul style="list-style-type: none"> In the area of public safety: <ul style="list-style-type: none"> SDR/CR with PPDR's eyes - Manfred Blaha, Chairman of PSCE, Austrian Ministry of Interior (20 minutes) Interworking and interoperability requirements for civil protection, Monika Lieberam, THW (20 minutes) In the area of defense: <ul style="list-style-type: none"> Presentation of the ESSOR project by Ugo Manetti, a4ESSOR and Gianluigi Marinoni, ESSOR representative (30 minutes) Presentation by Ruediger Leschnorn, Rohde & Schwarz (20 minutes) <p>The state of play in standardisation</p> <ul style="list-style-type: none"> Building Standards For SDR and CRS by ETSI TC RRS, Chairman Markus Mück (20 minutes) International aspects, Paivi Ruuska, Nokia (20 minutes)
13:10-14:30	Lunch

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14:30 18:30	<p>Two parallel sessions</p> <p>A) Session in the area of commercial applications Moderated by DG ENTR.G.4</p> <p>Short presentations (15 minutes):</p> <ol style="list-style-type: none"> Presentation by Reza Karimi (OFCOM UK) State of play FP7 Integrated Project Crew (Opher Yaron) The regulatory context, Paul Bender (BNetzA) The view from the academy, Andreas Polydoros (IASA)
15:30	Coffee break
16:00	<ol style="list-style-type: none"> Presentation by Thomas Nogues (Cable-Europe) Business aspects, Guillaume Lebrun (Qualcomm) <p>Discussion</p> <p>B) Public Safety and Defense session Moderated by Christoph Kautz, DG ENTR.H.3</p> <p>Presentation by the JRC, EDA and ETSI on the mandate. "How to achieve SDR standardization in public safety/military domain. A vision for a mandate. Objectives and challenges" (30 minutes). Discussion on the key elements of the mandate (10 minutes) The following key topics will be discussed with a short (10 minutes) presentation and related discussion (5 minutes):</p> <ol style="list-style-type: none"> Coordination Model for International SCA Standards by Eric Nicollet, Thales How we can exploit results from research projects for standardization? The view from academia by Oriol Sallent, HELP Military/public safety interworking and interoperability by Jean-Pierre Quemard, Cassidian PPDR: Perspectives For SDR by Fabrizio Vergari, and by Fabio Casalino, Selex-Elsag How we can exploit results from research projects for standardization ? The view from industry by Cedric Demeure, EULER project

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9:30	<p>Presentations</p> <ol style="list-style-type: none"> Presentation of the results of the panel in the commercial area (moderator of commercial session of day one), 25 minutes Presentation of the results of the panel on the public safety/defense domain (moderator of public safety/defense session of day one), 25 minutes Presentation of the results of the questionnaire, JRC, 10 minutes <p>Panel: Required actions for standardization and definition of a roadmap</p> <p>Moderated by European Commission and EDA</p> <p>The panel will:</p> <ul style="list-style-type: none"> Identify the main elements needed to successfully standardize and deploy SDR/CR technologies in Europe and the related timeframe Discuss the elements for a draft standardisation mandate in SDR and CR
11:30	Coffee break
	<ul style="list-style-type: none"> Presentation of the roadmap for standardization of SDR/CR in Europe Conclusions and recommendations <p>A report will be created with the findings and conclusions of the workshop</p>

Workshop on “Software Defined Radio and Cognitive Radio standardization”

Workshop background

Software Defined Radio (SDR) and Cognitive Radio (CR) are expected to become important drivers for the evolution of wireless communications and to bring along substantial benefits: from reconfigurable flexible and cost-effective architectures for wireless devices to a better utilization of the radio frequency spectrum which helps to mitigate the “spectrum scarcity” problem. A significant amount of research, including Commission-funded collaborative R&D projects, has been carried out in Europe on SDR and CR technologies in various application domains (defense, security and commercial). The development and use of these technologies is investigated and supported around the globe by government bodies and industry associations. It is important that Europe does not lose the competitive edge on these technologies with the rest of the world. While research must continue, it is now time to take steps to utilize available results.

SDR and CR can be considered to be “disruptive technologies” with the potential to create new business models, spectrum regulatory schemes and certification processes. These changes should be carefully investigated and addressed by all the relevant stakeholders so as to ensure that appropriate steps are taken in time and that while new uses of spectrum are enabled existing wireless services are not negatively impacted.

SDR and CR technologies have been investigated in the commercial, public safety and defense areas. While each area has specific operational and technical requirements, a consistent approach should bring benefits for all areas. The purpose of this workshop is to identify the main steps needed to drive the development and use of SDR and CR technologies in Europe, including the elements of a future standardization mandate as well as related regulatory and certification issues, and to define a roadmap to that purpose.

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Information and contact

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Acronyms:

British Association of Public Safety Communications Officials (BAPCO)
Cognitive Radio (CR)
Directorate General (DG)
DG Information and Society (INFSO)
DG Enterprise (ENTR)
DG Joint Research Centre (JRC)
Electromagnetic Radio Matters (ERM)
European Telecommunication Standards Institute (ETSI)
European Commission (EC)
European Defense Agency (EDA)
Public Safety Communication Europe (PSCE)
Reconfigurable Radio Systems (RRS)
Software Defined Radio (SDR)
Technical Committee (TC)

European Commission Joint Research Centre

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JRC, Ispra (Va), Italy
November 17 & 18, 2011