

PSC Europe Forum

SHARPS Working Group

Satellite and HAPs for emergency and Public Safety communications

Discussion Moderator: Matteo Berioli (Matteo.Berioli@dlr.de)

1st Meeting: Luxemburg, 22nd May 2007

Workshop Agenda

PART I **11:00 – 12:30**

Working group introduction (Moderator)

Presentations (see attached files):

Users

- Michael Weinlich (Steinbeis Foundation Center)

Research and Academics

- Frank Zeppenfeld (ESA)
- Laurent Franck (ENST Bretagne), on behalf of SatNEx, the satellite European Network of Excellence

Industry

- Guy Harles (SES Astra)
- Philippe Boutry (Astrium)

PART II **14:00 – 15:30**

Panel and Open Discussion

Discussion

All participants expressed their expectations on this working group by giving three practical objectives which, in their opinion, should be achieved. Based on the statements of the attendees a common list of objectives for the working group was written and collectively discussed; it is presented in the following. Due to the short time dedicated to the discussion of these points, the list should be still considered a draft version; it will be refined and detailed in the next weeks.

Working group objectives:

1. Make an overview of state of the art and of the upcoming evolution of the enabling technologies, including in particular terminals, interoperability issues with terrestrial systems, technology limitations and advantages;
2. Define common picture of user requirements (e.g. solution sustainability, rapid reaction capability), based on functional operational scenarios, clarify where satellites can be an answer, e.g. telemedicine on board airplanes;
3. Match requirements with candidate technical solutions, investigate need for new satellite interfaces/standards;
4. Clarify relation between commercial use and public-safety use of satellite capacity;

5. Reduce costs of satellite communications for emergency (evaluate technical possibilities);
6. Write a Memorandum of Understanding and a roadmap, to be included in the consensus report due at the next PSC general assembly (Sept. '07), with long-term goals and methods to achieve them;
7. Establish liaison with other PSC WGs (e.g. WG10 "IP Based Public Safety Communication"), and push for having a PSC working group for user requirements (to provide inputs to this WG);
8. Clarifying which of the 4 categories are in the scope of the working group (bidirectional communications should be considered at least): authority – authority, victims – victims, authority – victims, victims – authority;
9. Define what will be out of the scope for this WG;
10. Investigate the possibility of using alternative technologies (HAPs) for disaster management;
11. Provide long-term inputs for the FP7 research agenda (inputs for WG8);
12. Clarify business possibilities for company members;
13. Provide inputs for the standardization (e.g. ETSI SatEC);
14. Help the underserved areas of the world, bridge the digital divide;
15. Propose European projects and initiatives;
16. Keep members up-to-date and disseminate information to group members;
17. Write white paper to explain the use of satcom in public safety communications;
18. Sensitize European Parliament (send a letter) about satellites for PSC;
19. Put critical infrastructure protection and PPDR at the top of the Brussels agenda.

The discussion focused mainly on the points 1-7, which were considered more important; thus it is expected that they will get higher priority on the working group roadmap.

Peter Maurutschek (company: GCS) attended the meeting on behalf of the European Technology Platform for Satellite Communications ISI (Integral SatCom Initiative, www.isi-initiative.eu.org): ISI expressed during its general assembly in Salzburg (14-15 May 2007) a keen interest in the PSCE Forum in general, and in its Satellite Working Group in particular, and it provided an official expression of interest (see attached letter).

Some possibilities were briefly discussed to refund part of the costs of the working group (e.g. travels to meetings) by means of public funding; this may be further investigated.

The next meeting should be organized via a telephone conference; the group may also setup a wiki page to work on a common document.

Participants

First name, surname

1. Matteo Berioli
2. Philippe Boutry
3. Frank Zeppenfeldt
4. Eliot Edwards
5. Benoit Hap
6. Thorsten Braun

Affiliation

- German Aerospace Center (DLR)
- Astrium
- ESA
- EU Respond
- Tipsoft
- Luxinnovation

7. Nicolas Lewyckyj	VITO
8. Manfred Blaha	Austrian Ministry of the Interior
9. Peter Maurutschek	Global Communications & Services GmbH
10. Michael Weinlich	Steinbeis Scientific Center
11. Ingo Lukauer	Steinbeis Scientific Center
12. Guy Harles	SES Astra
13. Laurent Franck	ENST-Bretagne
14. Jorma Hämäläinen	TeliaSonera
15. Theodor Fokken	Rhode & Schwarz
16. Foued Melakessou	University of Luxemburg

Pierre Loyer (Thales Alenia Space), chairman of the ETSI SES/SatEC working group, was not able to participate due to a conflicting meeting; nevertheless he will be included in the next discussions of the group.

Cocnlusions

The SHARPS workshop raised a lot of interests and the participants were many and from different fields: users, industry, research and academics, governmental authorities, etc...

The discussion focused on several technical and political issues of big relevance for the group and for the whole PSCE Forum. In any case the heterogeneous background of the participants showed that there is a need to find a common understanding and for this reason the group should start preparing a common document to clearly define the working group roadmap.



The Integral Satcom Initiative



To: Prof. Thomas Engel
Coordinator of the NARTUS specific supporting action

Date: May 14, 2007

Dear Prof. Engel,

as coordinator of the NARTUS specific supporting action, which is currently supervising and assisting the creation of the Public Safety Communication Europe (PSCE) Forum, we would like to inform you that the European Technology Platform for Satellite Communications ISI (Integral SatCom Initiative, www.isi-initiative.eu.org) recently expressed during its general assembly in Salzburg a keen interest in the PSCE Forum in general, and in their Satellite Working Group in particular.

With this letter, ISI would like to verify whether it would be feasible to liaise with the PSC Satellite Working Group, as we believe that synergies could be found with the ISI Security and Users Working Groups. Following this line, ISI is open to collaborate and cooperate on all those issues in the area of public safety communication and information management systems which could benefit from our cooperation. Examples of special areas of interest that could be considered are:

- Safety of the European citizens
- Emergency Services (Disaster recovery, Search and Rescue operations)
- User requirements collection from security and emergency bodies

Looking forward to your kind reply on this matter, we send you our best regards.

Sincerely yours,

Prof. Giovanni Emanuele Corazza,
University of Bologna
Chairman of the Integral SatCom Initiative

Diego Gimenez Perez
ISDEFE
Chairman of the ISI Security Ad-hoc working group