

PSC Europe Forum

SHARPS Working Group (Satellite and HAPs for emergency and Public Safety communications)

Working group moderator

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Mailing List

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Website

<http://www.wisecom-fp6.eu/pscforum.php>

Description

In particular the following issues should be addressed by the WG:

- Independent analysis of technical solutions for satellite and HAPs communications in emergency and public safety;
- clarify relation between commercial use and public-safety use of satellite capacity (and eventually also military capacity, incl. secure link);
- address the problem of reducing costs of satellite communications for emergency (evaluate technical possibilities).

SHARPS should also try to promote the Tampere convention.

A white paper will be prepared, it should include:

- an overview of state of the art and of the upcoming evolution of the satellite and HAP technologies relevant for emergency and public safety, including in particular terminals, interoperability issues with terrestrial systems, technology limitations and advantages;
- a clear picture of user requirements (e.g. solution sustainability, rapid reaction capability), based on functional operational scenarios;
- a matching between user requirements and candidate satellite technologies, to clarify where satellites can be an answer;
- to identify open research areas and the need for new satellite interfaces/standards.

SHARPS have regular liaison with the following PSCE working groups:

- “User” working group in the PSCE Forum (still to be created: a note should be prepared and sent to the PSCE Forum chairman, before the PSCE meeting in October 2007, to propose to the PSCE Forum general assembly to create such a working group);
- “IP Based Public Safety Communication” working group;
- Others (to be discussed).

Liaisons

SHARPS have relation to the following external entities:

- ETSI SES/SatEC,
- ISI Security Working group,
- ESA.

ETSI SES/SatEC

The ETSI/SES-SatEC working group is oriented to the definition of regulatory, procedural and technical requirements to support the adoption of existing satellite

systems for EC (Emergency Communications). The ETSI activity may benefit from the interaction with PSC-SHARPS by:

- collecting all the relevant information from European companies and Operators about the recent available technologies and systems for space communications;
- being aware of the most recent technological trends for satellite communications and navigation services;
- recording an up-to-date map of emergency aware communication systems of other world regions;
- collecting and processing indications and ideas from companies and research centers useful for the development of standardization documents.

Similarly PSC-SHARPS will take benefit from the activities inside the ETSI group by:

- receiving the up-to-date reports on the SatEC standardization activity;
- sharing the most relevant regulatory and standardization decisions among PSC-SHARPS community, providing common targets for industrial partners and research institutions.

Note: ETSI SES/SatEC working group is going to draft an official statement for the liaison between SHARPS group and SES/SatEC in the next months, as required by the ETSI rules.

ISI Security Working group (confirmed by Diego via email)

SHARPS should liaise with satellite industries through the ISI European Technology Platform for satellite communications; a delegate of ISI may regularly attend SHARPS meetings and report the outcomes to the ISI general assembly, in order to keep satellite industries informed on the evolution of the SHARPS work.

ESA (to be checked with Frank)

SHARPS should give ESA guidance on what specific areas are outstanding in terms of research/development/demonstration, so that ESA could initiate more work in this area; it is foreseen to do this on ad-hoc basis and not regularly.

EURespond (<http://www.eurespond.org/>) (to be checked with Eliot)

EURespond is an alliance working to provide, among other things, Europe with easy-to-use, resilient, and ubiquitous communications systems for emergency response. Its aim is in particular to raise awareness with policy makers and other relevant decision makers of these issues. SHARPS will try to use the political channels provided by EURespond to bring forward its decisions and to make them reality.

Roadmap

Oct '07	Finalize WG charter (present document), with description and roadmap.
Dec '07	Start white paper and plan first draft