



Invitation

Life trials of rapidly deployable lightweight, satellite-based communication infrastructures for emergency conditions

Agenda:

16:00

Welcome

16:15-18:00

Explanation of the WISECOM system, presenting the equipments to the guests

18:00

Arrival of the press

18:15-18:45

Brief non-technical summary of the WISECOM features for the press, and description of the disaster simulation

19:00 - 20:00

Live Simulation of the disaster with fire brigades and emergency physicians

ca. 20:30 – 21:00

Press conference with journalists and guests, final discussion with questions from the audience

WISECOM Project

Final Demonstration (Wireless Infrastructure over Satellite for Emergency COMMunications)

Place:

German Aerospace Center (DLR)
Institute of Communications and
Navigation
Building TE02
Argelsrieder Feld 13
82234 Wessling (Germany)

Time:

Wednesday, 28th of May, 2008, at 16:00

Disasters often come along with the destruction of the local telecommunication infrastructure (provided that this infrastructure existed beforehand) causing severe problems for rescue operations. Satellite communications is then the only communications means for the rescue teams.

Today costly satellite telephones with low data rates are used in the early disaster phase (usually several hours after the disaster). In order to quickly restore the local mobile communication networks (GSM or 3G) with higher data rates, more complex satellite communication terminals (up to container size with several hundred kilograms) are available, which connect local base stations via satellite to the core network.

Transportation and installation of these satellite terminals takes usually up to several days.

The WISECOM project, co-funded by the European Commission under the 6th Framework Program, aims at the development and first demonstration of a rapidly deployable lightweight, satellite-based communication infrastructure,

which can be easily transported by one person and which can be installed within minutes. The communication infrastructure consists of small, rapidly deployable, terrestrial base stations (GSM, WLAN, WiMAX), which are connected to the public telephone network and to the Internet via satellite. The system supports voice and data communications for the rescue teams and it also provides a local GSM or 3G communication infrastructure for the victims in the disaster area. The WISECOM system is available in two versions which use two different satellite technologies: one for early deployments (with Inmarsat BGAN) and another one for the disaster recovery phase (with DVB-RCS).

The live-demonstrations on the 28th of May 2008 at the DLR Institute of Communications and Navigation will show a first prototype of the WISECOM system. In these demonstrations, which are supported by the regional authorities for civil protection, fire brigades of the district of Starnberg and emergency physicians will use and test the demonstrator for the first time in a realistic disaster training. One of the demonstrated applications is an electronically supported classification and registration of victims (triage). GPS location and information of the victims are automatically transmitted from PDAs (Personal Digital Assistant) of the rescue team via the satellite-based WISECOM communication infrastructure to a remote coordination center.

The WISECOM Project is coordinated by the DLR Institute of Communications and Navigation. Project partners are TriaGnoSys GmbH, Ansur Technologies AS, Astrium SAS, Steinbeis Forschungszentren GmbH, Aktsiaselts Regio, and Thales Alenia Space.



To attend the WISECOM demonstration, please register for free at:
<http://www.wisecom-fp6.eu>, before the 18th May 2008