

SECRICOM

Seamless Communication for Crisis Management



Project objectives

In September 2006 the European Security Research Advisory Board (ESRAB) published a report setting the European security research agenda and the requirements on new communication infrastructures. These requirements included security, dependability, enhanced connectivity, transmission of multiple formats and advanced search functions. In response to these ESRAB requirements, the collaborative FP7 research project SECRICOM was proposed by a consortium of ICT and security specialists.

SECRICOM will specify, design and demonstrate a seamless communication infrastructure for Crisis Management. Thirteen partners from eight EU countries are working together to produce a competitive solution to enable secure communication across agencies and emergency responders.

The project has two main objectives:

To solve problems experienced by contemporary crisis communication infrastructures by providing:

- Seamless and secure interoperability of the many existing mobile communication devices already deployed across the EU and used by agencies and emergency responders;
- Interfaces from the communication systems currently deployed to the new Software Defined Radio (SDR) based systems;
- A pervasive and trusted communication infrastructure to bring interconnectivity between different networks;
- The means for increased collaboration and inter-working between agencies and emergency responders; and
- The means to seamlessly support different user traffic over different communication bearers.

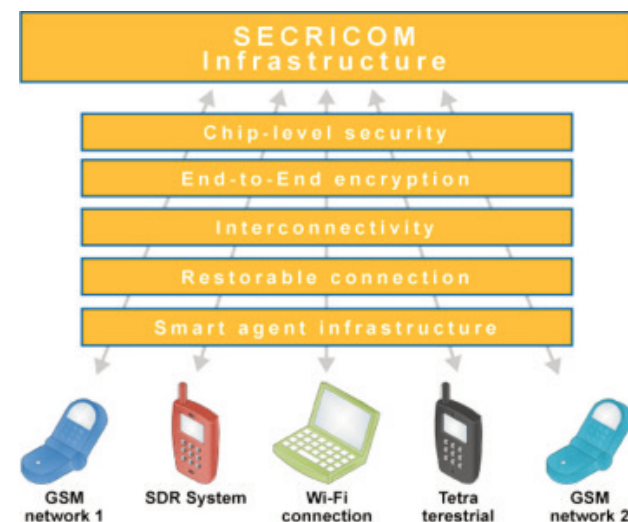
To add new smart functions using distributed IT systems based on a secure agents' infrastructure resulting in:

- Increased integrity information gathering and processing focusing on emergency agencies main task – saving lives.

Description of the work

The project has nine technical work-packages:

- User and system requirements (including market analysis) to establish project scope and priorities;
- The design of a secure communications infrastructure to enable the exploitation and/or interconnection to a range of bearers;
- The design and build of a prototype implementation of a secure distributed agent that enables users to access legacy IT systems whilst keeping information confidential;
- The design of a prototype specialised security chip to enable the secure distributed agents to connect onto the SECRICOM infrastructure;
- Provide an IPv6 based end-to-end network service supporting Quality of Service (QoS) and allow work groups to achieve necessary peer-peer "networking";
- The design and build of an end-to-end, secure, interoperable, fault tolerant and extendable network;
- The design and implementation of flexible mechanisms to monitor the network for security related threats and localisation of actors;
- Integration of technical results and building of interfaces to provide tested solutions against the required SECRICOM; and
- Demonstration of a representative SECRICOM infrastructure configured to support an agreed user requirement.



Title: Seamless Communication for Crisis Management

Acronym: SECRICOM

Grant Agreement N°: 218123

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EU Contribution requested: € 8,606,791

Starting Date: 01/09/2008 / **Duration:** 44 months

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