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SECRICOM
Seamless Communication for Crisis Management

SECRICOM
Infrastructure

Chip-level security

End-to-End encryption

Interconnectivity

Restorable connection

Smart agent infrastructure

GSM network 1
SDR System
Wi-Fi connection
Tetra terestrial
GSM network 2

SEVENTH FRAMEWORK PROGRAMME

http://www.secricom.eu

SECRICOM - Seamless Communication for Crisis Management

Demand

The SECRICOM project idea arose from close co-operation of consortium members with public bodies in charge of emergency management. They have a necessity for secure, fast and easy accessible information in the form of voice, pictures, video sequences, documents, notes, etc. All forms of these information could be transferred by a secure communication system with enhanced collaboration features.

SECRICOM - Seamless Communication for Crisis Management

Objectives

Solve problems of contemporary crisis communication infrastructures

- Seamless and secure interoperability of existing hundreds thousands mobile devices already deployed
- Smooth, simple, converging interface from systems currently deployed to systems of new SDR generation
- Creation of pervasive and trusted communication infrastructure, bring interconnectivity between different networks
- Provide true collaboration and inter-working of emergency responders
- Seamlessly support different user traffic over different communication bearers
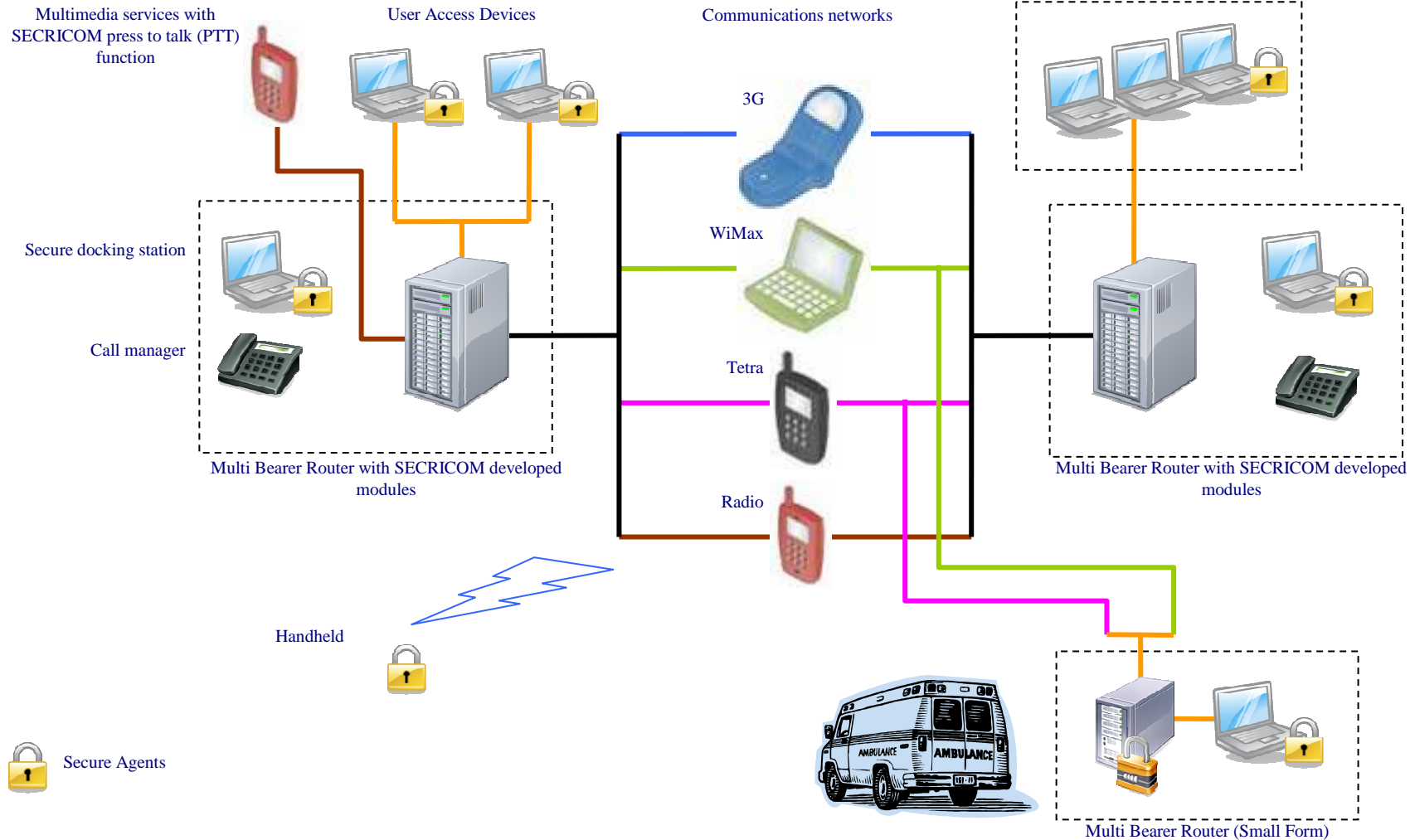
Add new smart functions using distributed IT systems based on an SDR secure agents' infrastructure

- Easier instant information gathering and processing focusing on emergency responders main task – saving lives

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SECRICOM Control and Management Centre

Multimedia services with SECRICOM press to talk (PTT) function

User Access Devices

Communications networks

3G

WiMax

Tetra

Radio

Secure docking station

Call manager

Multi Bearer Router with SECRICOM developed modules

Multi Bearer Router with SECRICOM developed modules

Handheld

Secure Agents

AMBULANCE

Multi Bearer Router (Small Form)

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Expected results

The SECRICOM will develop and demonstrate a secure communications infrastructure for public safety organisations and their users. Achievements will include:
- The exploitation of existing publicly available communication network infrastructure with interface towards emerging SDR systems
- Interoperability between heterogeneous secure communication systems
- A parallel distributed mobile agent-based transaction system for effective procurement
- Infrastructure based on custom chip-level security

Application of the SECRICOM results are envisaged in these areas:
- **Emergency responders** – paramedics, police, fire brigades
- **Public bodies** – crisis management headquarters
- **eHealth systems** – structures of the future with interaction on various levels
- **eCommerce** – heterogenous logistics systems

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Funding scheme

The SECRICOM project has been selected for funding in the Seventh Framework Programme for research and technological development (FP7).

FP7 is the European Union's main instrument for funding research over the period 2007 to 2013. It supports the research-related EU initiatives to boost the European growth, competitiveness and employment.

The SECRICOM as a collaborative and integration project has addressed the Security Theme in Call FP7-SEC-2007-1 in Topic SEC-2007-4.2-04 Wireless communication for EU crisis management

Total cost: € 12.468.847
EU contribution: € 8.606.791
Start date: 01/09/2008
End date: 30/04/2012
Duration: 44 months

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SECRICOM - Seamless Communication for Crisis Management

Manufacturers

QinetiQ
QinetiQ Ltd.
United Kingdom

Infineon technologies
Infineon Technologies AG
Germany

bumar
Bumar Ltd.
Poland

HITACHI Inspire the Next
Hitachi Europe SAS
France

Nextel S.A.
NEXTEL S.A.
Spain

Research & SMEs

ARDACO
Ardaco, a.s.
Slovakia

Institute of Informatics **Slovak Academy of Sciences**
Institute of Informatics, Slovak Academy of Sciences
Slovakia

Smartrends
Smartrends, s.r.o.
Slovakia

iTTi e-technologies & business
ITTI Sp. z o.o.
Poland

cea leti
CEA LETI
France

Universities & NGO

IAIK TU Graz
Graz University of Technology
Austria

uni.lu UNIVERSITÉ DU LUXEMBOURG
Université du Luxembourg
Luxembourg

BRITISH PUBLIC BAPCO SAFETY
British Association of Public Safety Communication Officers
United Kingdom