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International conference on communication systems – SECRICOM

24 April 2012

A modern communication system will be the subject of the international conference of SECRICOM, which will take place on 26 April on the premises of the Main School of Fire Service (Szkoła Główna Służby Pożarniczej). The conference will be attended by over 100 people dealing with communication, telecommunication and security from several countries: Great Britain, Spain, France, Austria, Slovakia, Greece, Luxembourg. The conference is the summary of a four-year international SECRICOM project, implemented thanks to the 7th Framework Programme, in which also Polish engineers participated. The honorary patronage over the conference is taken by Government Centre for Security.

The conference will include: representatives from government agencies, municipal and provincial emergency management centres, industry, science and research institutions, services related to civil protection. At the conference their presentations will have representatives of: British APCO, Ardaco, Bumar sp. z o.o., Ensmse/CEA-Leti, Nextel, University of Patras, University of Luxembourg, Slovak Academy of Sciences.

SECRICOM project began in 2008. Its goal was to develop a safe, interference and damage resistant, as well as easily extensible communication system for the needs of emergency management.

14 companies from 9 countries participated in the project, representing:

- industry: Bumar sp. z o.o. (Poland), QinetiQ Ltd. (Great Britain), Infineon Technologies AG (Germany), until 2010 r. Hitachi A.S. (France), ITTI Sp. z o.o. (Poland), Ardaco A.S. (Slovakia), CEA LETI (France), NEXTEL S.A. (Spain), Geothermal Anywhere S.R.O. (Slovakia);
- research institutions: Université du Luxembourg (Luxembourg), Institute of Informatics Slovak Academy of Sciences (Slovakia), Graz University of Technology (Austria), from 2010 r. University of Patras (Greece); and members affiliated to the British APCO (UK).

Co-authors of the idea were two Polish companies: Bumar sp. z o.o. and ITTI sp. z o.o. On 6-7 March this year in Britain there was the first demonstration of the system.

"Promoting security of the State and its citizens is enshrined in Bumar's mission as the largest Polish manufacturer of arms and safety components. Bumar along with ITTI from Poznań took part in the formation of the system concept – says Mr. Mariusz Andrzejczak, Vice-President for development of Bumar sp. z o.o. – The participation in the European project led to the synergy of knowledge, experience and enthusiasm of many companies, which resulted in numerous positive results of the project and brand new experience, knowledge and partners for the company's future activities."

It has been shown during the design work that the construction of a communication system for the needs of emergency centre based on the integration of different communication systems, including commercial mobile phone networks and the Internet, is possible while maintaining an adequate safety level. It turned out that construction of virtual database, meaning connection of local databases in one global network via Internet, as well as rapid creation of a board of experts from different countries working on a conference call.

"A great example of use of the system is the communication between members of Volunteer Fire Brigades and volunteers supporting the organisation of mass events, such as EURO 2012 – says Mr. Tomasz Mirosław, project coordinator at Bumar sp. z o.o. – The system devices allow to organise a safe, resistant to hackers' attacks net based on "personal" means of communication of the volunteers. The volunteers, recognizable, being the first source of information for tourists, can observe the state of the surroundings and, if necessary, can consult or call for help through their phones. That solution reduces the cost of maintaining the system, eliminating the need to store so-called "walkie-talkies" with the entire logistics system – charging and replacing batteries."

SECRICOM system components will enable the construction of communication network beyond boundaries, which is extremely important in case of flood or fire. If necessary, anyone willing to help could join the rescue operation. By texting the emergency management centre with a filled form, we can almost instantly become involved in the communication system and receive commands, as well as provide information. So here lies a new chance to avoid information chaos.

The project's components can be also used to establish a corporate communication network without restrictions e.g. among taxi drivers or couriers. Furthermore, the safety communication system will be used in modern computers and cars, protecting them from thieves. Similar components will be used to secure virtual databases. Searching a unique medicine, donor of rare blood type or even books in bookstores may be easier and faster in the future thanks to this project.

On 6-7 March in Great Britain there was a demonstration of the system, which was attended by representatives of the Polish Government Centre for Security, the Fire Brigade and Police.

On 26 April, at 9.00 am in the hall of the Main School of Fire Service (52/54 Słowackiego Street) there will be a conference closing the project. During the conference, experts in security, communications and telecommunications will be talking about a modern and safe system, which is the result of the completed project. The conference will be accompanied by demonstrations of the system. The conference hosts are: Bumar sp. z o.o. and ITTI sp. z o.o. The honorary patronage is held by Government Centre for Security.

For more information and a detailed program of the conference visit the project's site: www.secricom.eu

The conference program:

08:30 – 09.00 Registration

09:00 – 09:20 Welcome (Mr. Mariusz Andrzejczak – Vice-President for development of Bumar sp. z o.o.)

09:20 – 09:40 Special guest (Government Centre for Security)

09:40 – 10:00 Special guest (the Main School of Fire Services)

10:00 – 10:20 *Communication needs during crisis:* Jim Strother – British APCO

July 2010	10:20 – 10:40 <i>Telecommunication aspects of crisis management</i> : W. Holubowicz – ITTI
June 2010	10:40 – 11:00 <i>Secure wireless communication on IP standards (SECRIKOM Silente!)</i> in mission critical applications: M. Konecny – Ardaco
May 2010	11:00 – 11:30 Coffee break/poster session/live demonstrations
April 2010	11:30 – 11:50 <i>Security: docking module and agent infrastructure</i>
March 2010	11:50 – 12:10 <i>Secure docking station and its protection against hardware attacks</i> : A. Fourmaris – University of Patras
February 2010	12:10 – 12:30 <i>Using laser for security characterization of cryptographic device</i> : Cyril Roscian – ENSMSE/CEA-Leti
January 2010	12:30 – 13:30 Lunch
December 2009	13:30 – 13:50 <i>Moving towards Ipv6</i> : A. Machalek – University of Luxembourg
November 2009	13:50 – 14:10 <i>Communication infrastructure security monitoring and control center</i> : M. Uriarte – NEXTEL
October 2009	14:10 – 14:30 <i>Enhancing seamless data transfer within complex mesh environments using secure agents</i> : Emil Gatjal, Zoltan Balogh- Slovak Academy of Sciences
September 2009	14:30 – 14:50 Demonstration – introduction from business process perspective
August 2009	14:50 – 15:20 Demonstration – video from final demonstration
July 2009	15:20 – 15:50 Coffee break/poster session/live demonstrations
June 2009	15:50 – 16:10 Summary of conference
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