Trust & Security

April, 2007

European Commission
Information Society and Media

The newsletter about Trust & Security in the Information Society

http://cordis.europa.eu/ist/trust-security/index.html

Contents

Introduction, by Jacques Bus

We are almost one month away now from the submission deadline of the first ICT-FP7 Call for proposals (closing on Tuesday 8 May 2007 at 17.00, Brussels time). Since the launch of the Call, we met with many of you on the occasion of several Information Days we organized in the last 3 months (see article below). We hope that these helped you to get a clear picture about the scope and priorities of the ICT-FP7 Objective on "Secure, dependable and trusted Infrastructures" and served you as platforms for creating good consortium partnerships.

I would like to remind you that you may still wish to receive feedback from us on whether your proposal ideas fit the purpose of this call. In such case, describe your main proposal ideas and objectives in no more than 1-2 pages and send them to our call contact point, Mr Bart Van Caenegem (bart.van-caenegem at ec.europa.eu).

I would also like to remind you that the evaluation of proposals will take place in June. As in FP6, hearings will be held for those Integrated Projects and Networks of Excellence proposals that will have passed the evaluation thresholds. The hearings will take place in Brussels the last week of June. Proposers of these two funding schemes will be warned to come to these hearings at very short notice, in June – therefore, prepare yourself accordingly!

The last few weeks, some additional information on FP7 has become available. Do not forget to check regularly *the official page of the Call 1* in order to get the latest documents, for instance the Guides for Applicants. Also at this page you will find link to the **Electronic Proposal Submission Service (EPSS)** to be used for the electronic submission of proposals.

If you are interested in acting as Evaluators of ICT-FP7 proposals in ICT security and trust, please register yourself as an FP7 evaluator in the *experts database*. Please inform us then about it by sending a short e-mail to *INFSO-TRUST-SECURITY@ec.europa.eu*.

I wish you a successful participation in ICT-FP7, as well as a joyful Easter break.

Changes in the Projects Officers of the Unit

In the pervious issue of our Newsletter, I informed you about the INFSO re-organisation that took place early January 2007 to better reflect the ICT FP7 structure and content. As a consequence of this, the following changes of Project Officers took place in our Unit:

Laurent Cabirol left the unit and joined the DG Enterprise unit dealing with

This e-newsletter is a supplement to the Website above for the domain of Trust and Security within the Community RTD programme for creating a user friendly Information Society (IST Programme). Through the IST Programme, unit F5 in DG Information Society and Media continues its efforts to support the development of knowledge and technologies that manage and control complex and interdependent systems, in order to secure modern information systems and networks and to build resilience in the Information Society infrastructure. Our activities cover research and its relationship with policy developments in trust and security in a number of areas, i.e. biometrics, identity and privacy management, authentication, secure digital assets, cyber crime and support of standardisation and interoperability. Here you will find snapshots of our activities at regular intervals. More details are available on our Website, including a list of events.

the Security FP7 Theme. Antonis Galetsas also left the unit and joined the INFSO ICT-FP7 unit dealing with Nano-electronics. I wish to both of them a most successful continuation of their career in their new roles.

Two new Project Officers have now joined our unit: David Cornwell, who took over the RTD projects and tasks related to security certification and cryptography and Oluf Nielsen, who is in charge of our biometrics RTD project portfolio. We are expecting two more in the coming months.

Jacques Bus

Information Days for FP7

As part of the launch of ICT-FP7, several information events have taken place the last three months.

The *IST 2006 event* in Helsinki was largely devoted to the launch of FP7. On 1st February 2007, DG INFSO organised the *ICT Proposers Day* in Köln. The work programme related to the seven ICT challenges and the Future and Emerging Technologies was represented. Every objective of the work programme had its own meeting corner where potential proposers had the chance to meet each other as well as with us and exchange information via the means provided there.

On 26th February, the *Information Day on ICT FP7 Challenge 1* took place in Brussels. It gave us the opportunity to present the work programme, to focus on call 1 and to invite the constituency to present proposal ideas if they were looking for more partners.

These events were well attended and information and presentations can be found on *our website* (under 'Infodays and Partner Search').

Apart from these events, we have also attended several national information days and initiatives (workshops or seminars) by giving presentations on our Call 1 objective and being available for bilateral discussions with potential proposers. Through these efforts, we hope we have provided you with a good service of information dissemination and facilitation of networking and constituency building.

The future Internet and the EIFFEL/FIRE initiatives

The future Internet is the subject of investigation by two complementary and inter-cooperating working groups recently launched at the initiative of ICT-FP7: EIFFEL and FIRE.

EIFFEL (Evolved Internet Future for European Leadership) is a new think-thank aiming at proposing evolution paths from the current Internet towards a Future Networked Society and studying related research and policy directions. EIFFEL stresses technological challenges such as generalised mobility, addressing and routing schemes, data and control planes but also *network security, survivability and robustness* in the face of scalable, flexible and adaptable network paradigms. EIFFEL encourages, among others, *a selectable degree of anonymity and trust, network-to-network security and trust versus user privacy and anonymity*. According to the *EIFFEL White Paper*, there are two possible paths to address the above research goals: the evolutionary and the "clean slate". The white paper presents both of them as well as related policy challenges and governance issues. EIFFEL has been launched as part of ICT-FP7 Call 1, Objective 1 "the network of the future", sub-objective 1.c "Technologies and systems architectures for the Future Internet".

FIRE (the Free and Secure Internet initiative) addresses long-term, experimentally-driven research for investigating new architectures and approaches to build the foundations for the future Internet. In other terms, the long-term success of building the future Internet will depend on the availability of experimental facilities that can support, validate and trigger potentially disruptive research. FIRE aims at establishing and federating experimental validation facilities (including test beds and overlays) which can serve as proof of concept for new, unforeseen paradigms and technologies.

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Stakeholders to experiment with such facilities include researchers from academia and industry (network operators, technology and service providers). International collaboration can provide the means to bridge this experimentally-driven research, ensuring the ability to perform experiments at a very large scale. The security research agenda of FIRE not only addresses securing experimental facility federations but also future secure and resilient communication and service infrastructures as well as increasing user trust. FIRE has been launched as part of ICT-FP7 Call 2, objective 1.6 "New Paradigms and Experimental Facilities". More information on FIRE is available *here*.

Communications on Trust and privacy protection in the Information Society

Trusted and secure services for citizens and businesses, user empowerment, privacy protection and identity management are all high on the Commission's policy agenda for the years to come. This is rightfully so, as these questions are among the most challenging and decisive to address for the kind of society humanity will build in 21st century.

In 2006 the Commission issued two Communications addressing some of the above issues, one on *A strategy for a secure Information Society – Dialogue, partnership and empowerment* and one *Fighting spam, spyware and malicious software*.

Few days ago, a new Communication on *Radio Frequency Identification (RFID) in Europe: steps towards a policy framework* hit the streets. It is based on the wide public consultation that was held last summer and autumn (cf. our Newsletter issues of last July and October). RFID tags may not only become one of the information cornerstones of the Internet of Things, but they also carry the potential, when deployed without due consideration, to seriously undermine privacy as we know it today.

Two further Communications are currently under consideration, one on promoting data protection by privacy enhancing technologies (PETs) and another one on the fight against cyber crime. Stay tuned and we will keep you informed on their further progress.

ICT security and trust in the Competitiveness and Innovation framework Programme (2007-2013)

The "Competitiveness and Innovation framework Programme (CIP)" is a fresh new initiative just being launched by the Commission for reaching the objectives of the renewed Lisbon strategy. Running from 2007 to 2013, CIP has a budget of approximately €3.6 billion. This represents a global 60 % increase in annual spending on actions related to competitiveness and innovation by 2013 compared to 2006. CIP contains three specific programmes, one of them being the ICT Policy Support Programme (shortly ICT PSP), with a foreseen budget of €728 million. ICT PSP will build on the former e-TEN, Modinis and e-Content programmes and aims at testing solutions to the bottlenecks that delay wide European deployment of electronic services.

The ICT PSP work-programme for 2007 is currently in draft and subject to further approval. The draft emphasizes pilot demonstrations in eGovernment, eHealth and eInclusion. In the domain of eGovernment one of the foci is on federated eID management schemes allowing European-wide recognition of electronic identities and authentication for businesses and citizens. eHealth stresses among other things secure identification and authentication, respecting the confidentiality of the patient data, at the European scale. Privacy protection is an important horizontal concern that goes across eHealth, eInclusion, eGovernment and other eServices. It is expected that there will be an opening for a horizontal thematic network dedicated to privacy protection.

Subject to a positive outcome in the continued decision making process, the publication of the first call for proposals is expected to take place in the second half of May 2007. More information will become available at the *CIP web page* - stay alert!

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Past Events

Concertation Meeting on Critical Information Infrastructure Protection (CIIP)

Under IST-FP6, our Unit has launched a number of RTD projects in the area of critical information infrastructure protection (CIIP). The objective was to give the opportunity to the relevant stakeholders to better understand the ICT security aspects linked to the interdependencies of European Critical Infrastructures (CI's) and develop the adequate technology solutions.

These projects range from general understanding of vulnerabilities and defence methodologies to integrated risk assessment and reduction, decision support and advanced system re-configurability. The total financial effort dedicated to these activities amounts to approximately 46 million €.

As part of these activities, we have organized an open concertation meeting with three of our main IST FP6 research projects working in the area of CIIP, namely *IRRIIS*, *CRUTIAL* and *GRID*.

The event was held in Brussels on 15th March 2007, on the occasion of the first year review of these projects. The purpose of this event was to provide an opportunity to our stakeholders to present and discuss key research results they have achieved in these three projects during their first year of work. At the end of the day, an overall discussion was held addressing the following key issues: open research challenges like security and dependability of CI interdependencies; the development of new resilient ICT technologies and control system architectures by taking into account the heavy legacy burden of current process control systems; the future use of new networking technologies like ad-hoc, mobile and wireless networking; and the confidence and trust in using future ICT services for monitoring, managing and controlling current and future critical infrastructures.

More information on this event can be found on *our web page.*

Security Research Conference (SRC 07)

On 23-24 March, the Security Research Programme managed by DG ENTR organised the Security Research Conference 2007 (SRC 07) in Berlin, in cooperation with the German Presidency. This two days event, which was attended by more than 1000 people was very important, also for researchers in the field of ICT and Security, for two reasons:

The conference was opened by i.a. Dr. A Schavan (BMBF), Commission Vice-Presidents Verheugen and Frattini, and J. Buzek (MEP). The speeches of Verheugen and Frattini can be found on the Commission web site. Both Commissioners proposed in fact the joint establishment of a European Security Research and Innovation Forum (ESRIF), which would bring together public and private stakeholders to discuss the need for research and technology development for the security of the citizen. ICT security is of course essential for this and cooperation of DG INFSO with ENTR and JLS will be considered.

Another point of interest is the fact that this second Security research Conference (the first was held last year under the Austrian Presidency in Vienna) was programmed in coordination with all DG's that have research funded that relates to security. This included INFSO, RTD (Humanities, Transport and Aeronautics), JLS and TREN. INFSO/F5 presented the joint call on Critical Infrastructure Protection, as well as the ICT/Security work-programme. Moreover, we proposed several researchers from our constituency to give presentations on research in progress in FP6 and expected for FP7.

SRC 07 was very successful for a broad security research constituency, and the French have already promised to organise a third conference under their Presidency in the second half of 2008. For further information see *http://www.src07.de/*.

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Privacy in road transport

Transport is a domain where there exists actually a potential for tracking the whereabouts of people and goods on the move. Indeed, with the development of navigation systems, location-based services and cooperative driving systems, the awareness of this huge reservoir for privacy infringement acutely emerged.

Such concerns are addressed in the research work supported by the DG INFSO unit G4 "ICT for Transport". As part of their activities, the G4 unit recently organized a workshop entitled "In-vehicle telematics and cooperative systems – workshop on privacy and data protection issues", with the participation of our unit and the IST-FP6 projects *PRIME* and *FIDIS*.

The workshop addressed among other things privacy concerns related to cooperative driving systems, in which vehicles communicate with each other and with the surrounding infrastructure. Such systems have the potential to greatly increase the quality and reliability of information about vehicles, their location and the road environment. They thus enable improved and innovative services, increase safety and take into account environmental parameters in real-time. Representative examples of emerging new services for road users include: customized insurance-by-driving offerings, allowing insurance premiums to be based on individual and actual car usage; automatic road emergency calls – when worst happens; or the instantaneous provision of life-saving on-line personal health records to medical staff. In combination, these services and technologies will drastically change the nature of road transport in the 21st century. However, for all their indisputable benefits, these systems and services require appropriate deployment measures to avoid the exposure of privacy infringing information to unauthorized parties. Further information on this workshop, the discussions held and its main conclusions will soon be available at: *http://cordis.europa.eu/ist/transport/index.html*.

Workshop on Visual Analytics Research

A grand challenge of the emerging ubiquitous information society is to optimally utilise the immense wealth of data and information which is continually acquired and computed. Visual Analytics (VA) is the science of analytical reasoning facilitated by interactive visual interfaces. The underlying idea of VA is to support the capability of the human mind by computing systems, which analyse large data sets from heterogeneous sources, distil relevant, task-oriented information and present it to the user by using visual and interactive means such that the user can make the most of it in the shortest time and with the least effort.

Providing visual access to and enabling insightful understanding of large amounts of complex data is a major driving force in many R&D fields and application areas, including ICT security (e.g., network security monitoring and intrusion detection).

A preparatory meeting for a potential future initiative on "Visual Analytics in Business and Security Applications" was held in Darmstadt on 18th January 2007. The event was organised by the Fraunhofer-Institute for Computer Graphics (IGD) and the University of Konstanz in cooperation with DG INFSO F5 Unit "Security". The aim of the event was to explore the opportunity for launching a new research initiative on VA and build momentum for a future research agenda on VA in business and security applications, by bringing together stakeholders from academia and the ICT industry (incl. SMEs) being interested in VA research.

The event was attended by more than 30 stakeholders from academia and Industry. The main findings are summarised in a **white paper on "Visual Analytics in Europe - Mastering the Information Age"** that can be downloaded from *here.*

For further information on the white paper and the above event, you may contact the organisers of the Darmstadt event: Dr Jörn Kohlhammer, Fraunhofer IGD (joern.kohlhammer AT igd.fraunhofer.de) or Prof. Daniel Keim, University of Konstanz (keim AT informatik.uni-konstanz.de).

News

ESFORS announces next workshop on "Trust, Security and Dependability in Service Oriented Infrastructures"

The workshop will take place on **July 10-11th, in Maribor, Slovenia**. It is organised by the IST-FP6 coordination action *ESFORS* with the support of the ETP *NESSI*, the Slovenian technology platform NESSI-Slovenia, EC's DG INFSO unit F5 "Security" and IST-FP6 projects *Resist* (network of excellence), *Deserec* and *Serenity* (integrated projects). The workshop will serve as a platform for providing input to the Strategic Research Agenda of NESSI as well as to the ICT-FP7 Work Programme for 2009-2010.

The workshop objectives are: To identify the challenges and priorities associated with the resilience in software, services and service oriented architectures (SOA); To discuss and debate concerns and achievable goals in the short to medium term; To elaborate and agree future research directions; To bring together and integrate different research communities, such as dependability, software development and application security communities; And, to explore trust, security and dependability relevant Service Oriented Infrastructures basis in future Critical Infrastructures.

The targeted audience is Academia and Industry within the software engineering, services and SOA, security and dependability communities, as well as those stakeholders with interests in critical infrastructure protection e.g. Financial sector, Telecommunications, etc.

More information on the workshop venue and format and on how to participate will be available shortly on the *ESFORS web site.*

The Workshop is Free of Charge and all relevant stakeholders are welcome to participate!

IST-FP6 project HUMABIO in the New Scientist

Brain activity provides novel biometric key - **article on the IST-FP6 project HUMABIO**.

Related Newsletters

ERCIM Newsletter
Pages 63 and 64 of the ERCIM's News Nr 68 (Special Theme: "Traffic Planning and Logistics") provide a summary of the results of the ESFORS workshop held in Paris last September.

ENISA Quarterly
The ENISA's Newsletter issue of the 4th quarter of 2006 includes a presentation on the strategic research agenda drafted by the Advisory Board of the IST-FP6 project *SecurIST*.

Future Events

May

20-24 May 2007
Eurocrypt 2007
Barcelona, Spain
Eurocrypt 2007 is a scientific conference that focuses on research in cryptology.

June

25-28 June 2007
DSN 2007
Edinburgh, Scotland, UK
The International Conference on Dependable Systems and Networks

July

7 July 2007
IST Mobile and Wireless Communications Summit
Budapest, Hungary
The IST Mobile and Wireless Communications Summit is a major conference organized annually in Europe, sponsored by the European Commission. It is the first time that the Summit goes to a Central-European country, new member state of the European Union.
9-10 July 2007
eGeH '07
Milan, Italy
4Th International Conference and exhibition. A call for Papers is open.

September

3-7 September 2007
EGOV 2007
Regensburg, Germany
Sixth International EGOV Conference 2007

18 - 21 September 2007
26th International Conference on Computer Safety, Reliability and Security
Nuremberg, Germany

Details & More Events

http://cordis.europa.eu/ist/trust-security/events.htm

Hot Links

Symantec Reports Rise in Data Theft, Data Leakage, and Targeted Attacks Leading to Hackers' Financial Gain.

NIST (National Institute of Standard and Technology) special publications have been revised

http://cordis.europa.eu/ist/trust-security/index.html

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