

# Trust & Security Newsletter

October 2008

The newsletter about Trust & Security in the Information Society

[http://cordis.europa.eu/fp7/ict/security/home\\_en.html](http://cordis.europa.eu/fp7/ict/security/home_en.html)

European Commission  
Information Society and Media



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## **Nine new ICT projects are being launched on Critical Infrastructure Protection (CIP)**

Following the completion of negotiations, nine new projects (8 collaborative projects and 1 coordination action) selected from the Joint call ICT-SEC on CIP are being launched by our Unit, for a total EC funding of €20 million.

The 8 collaborative projects cover well the topics addressed by the joint call. In specific, they aim at: developing knowledge and technologies for understanding and managing the interactions and complexity of interdependent CIs; building secure and resilient networked information and process control systems operating in CIs; and, improving the capacity of assessing risks, facing contingency and dynamically reacting to failures.

The coordination action will bring together ICT security and financial stakeholders for identifying best practices and new research priorities in protecting financial CIs.

The project synopsis presenting these new projects is now available [here](#).

## **Engineering Secure Complex Software Systems and Services: an EC/ERCIM strategic seminar taking place in Brussels on 16 October 2008 – places are available!**

Our unit and **ERCIM** are jointly organising on 16 October 2008 in Brussels a strategic seminar on "ICT Security: Engineering Secure Complex Software Systems and Services".

The seminar aims at collecting the relevant academic and industrial expertise in secure software engineering and at linking it with industry's best practices in the field in order to increase the trustworthiness of the resulting ICT systems. See also related article *in ERCIM News issue of July 2008* (pages 12-13).

The objectives and agenda of the seminar can be found [here](#). **There are still few places available - if you are interested in participating, contact [Manuel.Carvalho(at)ec.europa.eu].**

## **PRIME project receives the 2008 HP-IAPP Privacy Innovation Technology Award!**

We are very happy to announce that the IST-FP6 project **PRIME** has received the 2008 HP-IAPP award in the category 'Privacy Innovation Technology'. The International Association of Privacy Professionals (IAPP) is the world's largest association of privacy professionals. PRIME was selected among 15 competing nominations in this category. The announcement states "...European Union Programs Recognized by International Association of Privacy Professionals" and particularly about PRIME it points out "...a highly innovative technology program architecture that governs access control, data retention and policy elements". Read more [here](#) or at the PRIME project's web site, [here](#).

Groups meet to discuss the path towards "Trustworthy ICT"

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This e-newsletter is a supplement to the Website above for the domain of Trust and Security within the EU's 7<sup>th</sup> Research Framework programme (FP7), Theme "Information and Communication Technologies" (ICT). Through the FP7-ICT Theme, Unit F5 "Security" 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

## Our unit at the ICT 2008 event, Lyon, 25-27 November 2008

The ICT 2008 event is a landmark event for our Unit as well as for the whole ICT FP7 Programme. As in the previous editions, the event will be composed of three parallel tracks: the conference, the networking and the exhibition.

At the **Conference**, our Unit will be organising two sessions:

- The first will be dedicated to the new Objective of the ICT work programme 2009-10 on '**Trustworthy ICT**' and is scheduled on the Wednesday 26 November at 9 AM.
- The second, called '**A Trustworthy Information Society**', will take place also on Wednesday at 2PM.

Check out the whole ICT 2008 Conference programme [here](#).

In the **Networking** track of ICT 2008, the following sessions relating to ICT security and trust will be organised:

- **184-Societal and ICT perspectives: the impact of Trust, Security, Dependability, Privacy and Identity**, by the ICT FP7 coordination action **Think-Trust**;
- **515-European networks and services infrastructures security assurance**, by the EUREKA project **BUGYO-BEYOND**;
- **653-Privacy meets ICT Practice**, by the ICT FP7 project **Primelife**;
- **821-Privacy, Identity Management and Dependability in Emerging ICT-based Interaction Scenarios: Trustworthy Fulfilment of Requirements beyond purely Technological Innovation**, by the ICT FP7 project **PICOS**;

The purpose of these sessions is to discuss and gather around new ideas which may lead to new project proposals. Other networking sessions of interest to our research constituency could be:

- **Towards Online Reputation Management**;
- **Research and Policy Roadmap for security and privacy enhancement in e-Health**;
- **Security and Quality issues for Next Generation OSS in a Business Context**;

The above list is not exhaustive. The whole list of selected networking sessions can be found [here](#).

The third track of the event is the **Exhibition** where companies and projects showcase new ideas, new products and project results. Check out the whole exhibition list [here](#).

We look forward to seeing all of you at the ICT event in Lyon!

## The 2<sup>nd</sup> Future Internet Assembly is taking place in Madrid, 9-10 December 2008

On 31<sup>st</sup> March 2008, the "Bled Declaration" launched a European approach to the Future of the Internet, and the **conference in Bled** established the Future Internet Assembly – FIA (see our [previous Newsletter issue](#)). The **2<sup>nd</sup> FIA event** will now be held in Madrid, December 9<sup>th</sup> and 10<sup>th</sup>, 2008. The aim will be to discuss progress achieved so far in cross-cutting issues relating to the Future Internet (FI) which are of common interest to several running ICT FP7 projects, including projects of our unit. In practice, the event aims at describing the state of play, research orientations and possible integration paths towards FI, accompanied by a roadmap with milestones, to be supported by the attendees. The event is structured around 7 cross-cutting sessions: "future content network(s)", "real world Internet", "Identity and Trust", "FI service offer", "management and governance of the FI", "socio-economics of the FI" and "usage of facilities based on use cases". Further information on FIA can be found [here](#) and on the FIA Madrid event [here](#).

## The 3<sup>rd</sup> Future Internet Assembly is announced – a dedicated call for papers is now open

A year after the **Bled declaration**, it will be opportune to review the strategic orientations and trends governing the future societal and economic developments of on-line Internet and mobile societies. A high-level Future

and networks and to build resilience in the Information Society infrastructures.

Our activities cover research and its relationship with policy developments in trust and security in a number of areas, i.e. network security and security of digital assets, applications and services, fighting against cyber crime, cryptography, trusted computing, identity and privacy management, authentication, multi-modal biometrics 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.

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Internet (FI) conference is scheduled to take place in **Prague**, under the auspices of the Czech Presidency, **on May 11<sup>th</sup> to 13<sup>th</sup>, 2009**, for continuing to shape future actions at European level in a domain that has now become a global issue. The event will mark the progress made on the commitments taken by more than 80 EU funded projects when signing the Bled declaration, and will secure other bold co-operation agreements across key players worldwide.

**A dedicated Call for Papers is now open:** In Prague, we would like to mark this milestone with a publication of the best FI research ideas or achievements to date produced by the researchers in the projects that subscribe to the FIA. We therefore invite submissions of high quality papers in all the areas of research related to the Future Internet. In particular, we strongly welcome papers on topics crossing boundaries, for example those identified for the Madrid 2<sup>nd</sup> FIA event. Papers should provide sufficient details on the application domain, the techniques used, the issues surrounding actual implementations and applications, and the lessons learned in the field. Further details on the Call for Papers and the submission details can be found [here](#).

The deadline for paper submission is **13 October 2008**. **We strongly encourage all those of our projects which signed the Bled declaration to submit.** If you have questions about the publication, contact: [info-fia-prague\(at\)ec.europa.eu](mailto:info-fia-prague(at)ec.europa.eu) or your Project Officer.

### **A public consultation is open on "Shaping the ICT research and innovation agenda for the next decade"**

In search of the best strategies to boost Europe's leadership in ICT research and innovation in the next decade, the European Commission launched a public consultation on the above subject. Contributions from industry, ICT experts, policy-makers and the wider public will be fed into a new strategy for ICT research and innovation, to be unveiled next year. The aim is to put European ICT industry, especially SMEs, to the fore of the race for global competitiveness.

**The public consultation is open until 7 November 2008** and is accessible from [here](#). Your feedback is essential for us – we strongly encourage you to provide your views on this document!

### **First announcement of the FP7-ICT Proposers Day: Budapest, 22 January 2009**

DG INFSO, in cooperation with the Hungarian National Office for Research and Technology, organises a FP7 ICT Proposers Day on Thursday, 22 January 2009 in Budapest, Hungary.

The event is designed to help you meet potential collaborators and facilitate the formation of research consortia.

Our unit will be present in Budapest. We will be presenting you in detail our new objective on "Trustworthy ICT" which is part of the ICT Work programme 2009-10 and that will be announced at the ICT event in Lyon (see article above). Other sessions at the event will be providing you advice on the specifics of the 2009-10 Work programme and on the general rules and procedures for participating in calls for proposals.

More information on the Budapest Proposers' Day will become available [here](#).

### **Think-Trust Working Groups meet to discuss the path towards "Trustworthy ICT"**

In our [previous Newsletter issue](#), we announced the creation of **RISEPTIS**, a high-level Advisory Board on security and trust, as well as two supporting working groups (WGs) of the **Think-Trust** FP7 Coordination Action. WG1 is addressing "Security, Dependability and Trust in the Future Internet" and WG2 "Privacy and Trust in the Information Society".

The inaugural workshop of these WGs took place in Paris on September 9<sup>th</sup> and 10<sup>th</sup> and was attended by over 30 participants (including WG members, the **Think-Trust** project partners and the Commission). The main objectives of the workshop were to bring together representatives of the research community of security, dependability, trust, privacy and identity management (invited Working Group members) to identify and scope their future activities

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#### Feedback

All comments are welcome. Please send your comments to the editors.

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#### Disclaimer

The aim of this newsletter is to enhance public access to information concerning some of the initiatives of unit F5 of DG Information Society and

and discuss technology solutions in the path toward "Trustworthy ICT". Their work would also contribute to the RISEPTIS report; the activities of the **Future Internet Assembly** (see dedicated article in this issue), and the **networking session** at ICT 2008, Lyon (see dedicated article in this issue).

- At the workshop, issues raised from WG1 included: a *measurement infrastructure* is required at the network, systems and services level for analysing and understanding the computational complexity of emerging threats and for using it to monitor the security status of a system and its services; technology solutions for addressing *the accountability* (responsibility) of service providers', users' and other stakeholders' activities but also of system behaviours / operations and of their applications; and, the creation of a *trust management infrastructure* together with adequate management policies and the *management and governance* of the Future Internet.
- WG2 identified an inventory of technology innovations which will be explored with regard to addressing the issues of privacy, identity management (IDM) and accountability in the information society. These included privacy transparency tool support, user-interface design according to privacy requirements, methodology for multi-party security/privacy IDM design among others. A path for further collaborative work has been identified and a subsequent workshop will work toward consolidating and progressing work in these areas.
- All the above require architectural support and possibly new legal frameworks for security monitoring, observability and measurability, as well as for accountability as they are not present in the current multi-layer, multi-domain architecture. The same applies for supporting dynamic trust management and user-centric privacy respecting interoperable IDM schemes.

Join the **Think-Trust networking session** at the ICT 2008 event in Lyon, where many of the above issues will be presented and further discussed with the audience.

### Launch of Privacy Open Space project

Under the **ICT PSP Programme**, a new project entitled the **European Privacy Open Space (PrivacyOS)** is being launched. This is a 2-years thematic network which brings together industry, SMEs, Governments, Academia, and Civil Society to foster the further development and deployment of privacy infrastructures for Europe.

PrivacyOS will offer a flexible platform to tackle emerging key issues to be resolved for a more effective data protection in the information age. The project will stimulate exchange of best practises, and develop strategies and joint projects following four core policy goals: Awareness-raising of privacy enhancing ICT technologies; enabling privacy on the Web; fostering privacy-friendly Identity Management from the viewpoint of effective deployment, and European-wide take-up.

Workshops will focus on Location Based Services, electronic ID-cards, privacy seals and cryptographic mechanisms to name a few. The registration for the first PrivacyOS Conference is open until the 5<sup>th</sup> of October 2008 – see [here](#).

New areas of work can be raised during the lifetime of the PrivacyOS. Outreach and consensus building will be ensured through co-locations with relevant other conferences. Further information on the project and its contact points can be found [here](#).

### WOMBAT's SGNET, a honeypot-based distributed data collection framework, is now available to the research community

The ICT FP7 project **WOMBAT** is aiming at studying today's Internet threats by using threat-related data collected in the wild. Among the different data sources that WOMBAT developed, SGNET is a distributed data collection framework for the generation of intelligence on Internet self-propagating malware. SGNET is the outcome of the integration of the work of several research teams of WOMBAT (EURECOM, VU Amsterdam, Hispasec and TU Vienna). The resulting framework feeds and enriches with contextual information a large relational database providing detailed historical

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information on the observed threats. SGNET data collection is based on honeypot sensors deployed throughout the Internet. These sensors emulate the presence of vulnerable hosts and collect information on the observed exploits using a protocol learning technique called ScriptGen. By doing so, the cost and the security concerns associated to the usage of honeypots are drastically reduced.

You are most welcome to participate to SGNET by hosting a sensor; you will receive in exchange full access to the whole dataset and you will be able to better understand, thanks to the tools offered, how your network perimeter is attacked, in comparison to other ones. **If you are interested in participating, contact [[honeymaster\(at\)eurecom.fr](mailto:honeymaster@eurecom.fr)].**

### Trusted Networks in the ICT Mobile Summit 2008

The 2008 edition of the *ICT Mobile Summit* took place in Stockholm from 10-12 June. Apart from the plenary sessions, there were workshops and parallel sessions where submitted and peer reviewed papers were presented. There was also an exhibition and poster area to demonstrate and explain recent project results.

One full day was dedicated to Future Internet research with one plenary session about Pervasive and Trusted Network Issues. Speakers addressed results and topics in the area of privacy and identity management from the projects *Discreet*, *Prism*, *Swift* and *Daidalos*.

Amardeo Sarma (technical coordinator of *Swift*) introduced a new concept for the Internet, namely that the end-user should be considered as the endpoint of the communication in the Internet rather than the device. In that case, the end-user is part of the Internet and he suggested to call the future Internet 'identinet'. Giuseppe Bianchi (technical coordinator of *Prism*) presented the goals of this new FP7 project, and in particular its privacy-preserving network monitoring scheme. Since new regulation for ISPs is expected to specify technical means to protect the privacy of the users, he foresees that the project will be able to provide a law-compliant solution for ISPs. The other presentations covered privacy-aware accounting and billing to avoid profiling of users and anonymous networking.

The next edition, ICT-Mobile Summit 2009, will take place in Santander, Spain from 10 to 12 June 2009 (<http://www.ICT-MobileSummit.eu>).

### ECRYPT NoE held its closing event and final review

*ECRYPT* - European Network of Excellence for Cryptology (2004-2008) was a 4.5-year network of excellence funded within the IST-FP6 Programme. ECRYPT has contributed to the close integration of European researchers in cryptology and digital watermarking.

ECRYPT researchers have authored 1500 publications of which 7 papers have received best paper awards at IACR flagship conferences. Thirty-four workshops have been organised with more than 2000 participants as well as 12 summer and winter schools with 700 participants. ECRYPT has hosted more than 100 external visitors. One of the main successes of ECRYPT are 3 open competitions in the area of stream ciphers, watermarking schemes and software performance of cryptographic algorithms; these competitions have attracted contributions by top researchers from all over the world and have made a lasting impact on the future of research in this area.

The ECRYPT *closing event* took place in May 2008 in Antwerp. It presented an overview of ECRYPT's main research achievements. The second part of the event brought together experts from industry and academia to discuss challenges and successes of cryptography and watermarking in several industry sectors. The event also helped to set the stage for the ECRYPT II network of excellence, which aims to continue the success story.

### PRIME held its closing event and final review

Privacy and Identity Management for Europe: the IST-FP6 integrated project *PRIME* held its closing event in Leuven on 21-22 July 2008. The first day was an open event with about 60-70 participants and the second day was dedicated to the final project review.

"PRIME aimed to develop a working prototype of a privacy-enhancing Identity Management System. To foster market adoption, novel solutions for managing identities have been demonstrated in challenging real-world

scenarios, e.g., from Internet Communication, Airline Passenger Processes, Location-Based Services and Collaborative e-Learning" (from the **PPRIME** web site). More presentation material on PRIME can be downloaded from the project's web site (<https://www.prime-project.eu/>).

The event was opened by *Eric Goderniaux*, IBM Belgium and PRIME coordinator. *Jacques Bus* provided a keynote on identity in the digital society, giving research directions currently envisaged and pointing out the role PRIME has had in establishing European visibility in this area. Another keynote was provided by *Michael Waidner*, IBM. The day continued with presentations of the project results within the context of the on-going privacy debate. A panel which included Malcolm Crompton (former Australian data protection Commissioner) and *Caspar Bowden* (Microsoft) concluded the formal part of the day. The presentations and discussions clearly showed the relevance of the PRIME project as a core European group with international recognition, stimulating and coordinating research, contributing to the societal debate and raising awareness on privacy and identity in digital life. Further details on this event and the presentations made are available [here](#).

### Successful completion of the S3MS project

The IST-FP6 project **S3MS** was successfully completed last February. The project has developed a 'security-by-contract' technological solution which allows users to download and use applications on their mobile devices without compromising the integrity of such devices. It is a framework that ensures that applications behave like one expects. S3MS thus contributes to increasing the users trust in these applications. To that end, the project has developed software verification and validation techniques for assessing the properties of an application and that can be used at development time (by the application developer), loading time (by the end-user) or execution time (by the device).

Because of the very promising results that the project has achieved, the consortium is in the process of trademarking the name 'security-by-contract'. The project website ([www.s3ms.org](http://www.s3ms.org)) will be used for further dissemination and exploitation. S3MS has also resulted in several bilateral collaborations between project partners that span beyond its scope and duration.

### DISCREET project held final project demonstrations

The IST-FP6 project **DISCREET** ("Discreet Service Provision in Smart Environments"), held its final project presentations on May 15<sup>th</sup>, 2008. Very promising research results were presented and demonstrated in trial testbeds. A variety of technologies, based on the concept of 'circles of privacy', was demonstrated, for example for managing user-selected interaction with services in airport environments, for managing RFIDs for user-controlled privacy protection, and for scrambling RFIDs for secure information exchanged with authorised partners only. For more information, visit the DISCREET website (<http://www.ist-discreet.org>).

### Other news from our unit and running projects

- The new brochure of our Unit on ICT FP7 research is available [here](#).
- **Report from consultation meeting on "Engineering Secure Software Systems"** held in Brussels on April 23<sup>rd</sup>, 2008.
- **Paulo Sousa (CRUTIAL) was distinguished with the IBM Portugal 2007 Scientific Award.**
- Beating the code breakers with quantum cryptography – an article of IST Results on the **IST-FP6 SECOQC** project – see [here](#).
- **SECOQC is organising the First demonstration of a working quantum key distribution network**, 08-10 October 2008, Vienna, Austria: The first live demonstration of a working quantum key distribution (QKD) network will take place in Vienna in the framework of the SECOQC international conference. Seven QKD-links will be combined in a novel quantum-back-bone network physically deployed within a typical metropolitan area network to connect different company sites from SIEMENS Austria. Typical applications for QKD, to secure data traffic from telephony and video conferencing, will also be included in the demonstration.

## Related Newsletters

*ERCIM News*

*DESEREC Newsletter*

*ENISA Quarterly*

*Cyber Security Industry Alliance Newsletter*

*Cyber Security KTN Newsletter*

*SecurityPark Newsletter*

*Meridian Newsletter*

## Future Events

### October 2008

#### Internet of Things - Internet of the Future

06-07 October 2008

Nice, France

The conference will concentrate on the following two areas: (1) aspects related to the development of the mobile Internet: (2) the industrial and technological perspectives necessary for the development of the Internet of Things. The objective is to identify and discuss the technological state-of-the-art, future trends, as well as opportunities and challenges in order paint a comprehensive picture of how the Internet of Things will change how we interact with objects.

#### ESORICS 2008

06-08 October 2008

Malaga, Spain

The 13th European Symposium on Research in Computer Security will be held in Malaga. ESORICS is cornered as the European research event in computer security.

#### IEEE SRDS 2008

06-08 October 2008

Napoli, Italy

The 27th International Symposium on Reliable Distributed Systems has been a traditional forum for researchers and practitioners who are interested in distributed systems design and development, particularly with properties such as reliability, availability, safety, security, and real time

#### 1st NEM Summit

13-15 October 2008

Saint-Malo, France

NEM European Technology Platform, with the support of the European Commission's DG Information Society and Media, is launching a new Networked and Electronic Media Summit (NEM Summit), which aims to be a major annual conference and exhibition devoted to the field of Networked and Electronic Media and ICT at large.

#### CRITIS'08

13-15 October 2008

Frascati (Rome), Italy

CRITIS'08 Workshop is aimed at exploring new challenges posed from Critical Information Infrastructures (CII), bringing together researchers and professionals from universities, private companies and Public Administrations interested in all security-related aspects, and promoting a multi-disciplinary approach within the scientific communities at national, European and trans-European level.

#### RE-TRUST 2008

15 - 16 October 2008

Trento, Italy

First International Workshop on Remote Entrusting. The workshop is organized by the RE-TRUST project (Remote EnTrusting by RUn-time Software au-Thentication), funded by the European Commission, under the Future Emerging Technology (FET) program.

## November 2008

### [Privacy Technologies in Action](#)

27 November 2008

London, UK

Knowledge Transfer Networks present the third in this series of independent forums that helping achieve a balance between ensuring privacy and enjoying the benefits of new technology.

## December 2008

### [FIA Madrid](#)

9-10 December 2008

Madrid, Spain

See above in this newsletter for more information

### [ServiceWave 2008](#)

10-13 December 2008

Madrid, Spain

The ServiceWave conference series (organized by NESSI) aims to establish the premier European forum for researchers, educators and industrial practitioners.

## January 2009

### [4th ETSI Security Workshop](#)

13-14 January 2009

Sophia Antipolis, France

The ETSI Security Workshop has become the greatest annual international security standardisation workshop.

### [FP7-ICT Proposers' Day](#)

22 January 2009

Budapest, Hungary

## March 2009

### [Third International Workshop on Secure Software Engineering](#)

16-19 March 2009

Fukuoka, Japan

This workshop will focus on techniques, experiences and lessons learned for engineering secure and dependable software.

## May 2009

### [FIA Prague](#)

11-13 May 2009

Prague, Czech Republic

See above in this newsletter for more information.

## June 2009

### [ICT-MobileSummit 2009](#)

10-12 June 2009

Santander, Spain

Call for papers, deadline: 16.01.2009.

## Details & More Events

[http://cordis.europa.eu/fp7/ict/security/events\\_en](http://cordis.europa.eu/fp7/ict/security/events_en)

## Hot Links

→ [SecEUR – the business of EU Security Policy](#)

### **ICT Trust and Security Research in FP6:**

<http://cordis.europa.eu/ist/trust-security/>

### **ICT Trust and Security Research in FP7:**

[http://cordis.europa.eu/fp7/ict/security/home\\_en.html](http://cordis.europa.eu/fp7/ict/security/home_en.html)