

	International Federation for Information Processing
	TC-11 Security and Protection in Information Processing Systems

PROPOSAL FOR A NEW WORKING GROUP

Factsheet

WG 11.11

Trust Management

Version: 16 July 2006

Introduction

Working group 11.11 Trust Management was established in May 2006.

The deployment of a global computing infrastructure raises new and difficult security and privacy issues. Global computing allows entities to reason about the trustworthiness of other entities and to make autonomous security decisions on the basis of trust. This requires the development of a computational trust model that enables entities to reason about trust and to verify the security properties of a particular interaction. The global computing infrastructure is highly dynamic with continuously appearing and disappearing entities and services. It is vital that the associated computational trust model is able to incorporate this dynamism and that equally flexible legislative and regulatory frameworks emerge.

Aims and scope (last revised / reconfirmed May 2006)

(Strategic issues / questions: What does the WG address, what does it want to achieve, what are the groups of people the working group focuses on, what are the boundaries of the work area)

Working Group 11.11 aims to provide a forum for cross-disciplinary investigation of the application of trust as a means of establishing security and confidence in the global computing infrastructure, recognizing trust as a crucial enabler for meaningful and mutual beneficial interactions. The working group will bring together researchers with an interest in complementary aspects of trust, from both technology oriented disciplines and the field of law,

social sciences and philosophy. In this way the working group will provide the common background necessary for advancing towards an in-depth understanding of the fundamental issues and challenges in the area of trust management in open systems.

The main membership will most likely be specialized researchers, both from universities and company laboratories. Government organizations and IFIP member societies and their members will be the main users of the results of the group.

Working Group 11.11 has a link to the area of other groups, both inside and outside IFIP and the group will seek actively for close cooperation with these groups.

Scope of the working group (non-exhaustive and non-exclusive):

- semantics and models for security and trust;
- trust management architectures, mechanisms and policies;
- trust in e-commerce, e-service, e-government;
- trust and privacy; (link with wg 9.6 / 11.7)
- identity and trust management; (link with wg 11.6)
- trust in securing digital as well as physical assets;
- social and legal aspects of trust. (link with wg 9.6 / 11.7).

Products, services and activities (last revised / reconfirmed May 2006)

(Strategic issues / questions: What are the products, services and activities the working group will deliver)

- Establish THE major international trust management research and development community (by exploring possibilities to consolidate the growing number of groups and combine efforts of and with these groups); this community will:
 - investigate the foundations and applications of security and trust in ICT;
 - study the deep interplay between trust management and common security issues such as confidentiality, integrity and availability;
 - identify and promote new areas of research connected with trust management, e.g. reputation, recommendation, collaboration, etc;
 - provide a platform for presenting and discussing emerging ideas and trends.
- Establish THE major international trust management research conference (by exploring possibilities to expand one or more of the already existing events); this conference will seek to:
 - facilitate the cross-disciplinary investigation of fundamental issues underpinning computational trust models by bringing together expertise from technology oriented sciences, law, philosophy and social sciences;
 - facilitate the emergence of widely acceptable trust management processes for dynamic open systems and applications;
 - facilitate the development of new paradigms in the area of dynamic open systems which effectively utilise computational trust models;
 - facilitate the integration of new trust management paradigms and emerging architectures for Grid computing and Virtual Organisations;
 - help the incorporation of trust management elements into existing standards.

- Investigate possibilities for defining a number of closely interacting research projects focusing on different aspects of trust management or introducing trust management into existing and emerging technologies, regulatory and legislative frameworks.

Membership rules (last revised / reconfirmed May 2006)

Members of the Working Group are expected to be qualified researchers and/or professionals engaged in the field of trust management. Members are nominated by the Chair and subject to IFIP approval.

Members are expected to participate actively in Working Group activities. At a minimum, active participation means presenting a paper or taking an active role in the organization of a meeting at least once every three years (i.e., a three-year period of inactivity is taken to indicate that the member is no longer actively interested in this technical area and can be cause for removing the member from the membership list).

Contact details

Contact of working group chair:

- xx
Telephone:
Fax:
E-mail:

Home page and mailing address of the group:

- <http://>

Annex a. Membership

- **Officers, current**

Chair:	Javier Lopez, Spain	first three-year term, May 2006 – May 2009
Vice-chairs:	Theo Dimitrakos, UK	first three-year term, May 2006 – May 2009
	Sandro Etalle, Netherlands	first three-year term, May 2006 – May 2009
Secretary:	Stephen Marsh, Canada	first three-year term, May 2006 – May 2009

- **Membershiplist, confirmed in TC-11 meeting of May 2006**

The membership list for this group will be expanded in the course of 2006.

Country	Name
Australia	Audun Josang,
Canada	Stephen Marsh, NRC Institute for Information Technology
Denmark	Christian Jensen
France	Valerie Issarny
Greece	Christos Nikolaou, University of Crete at Heraklion
Ireland	Paddy Nixon
Italy	Fabio Martinelli, CNR
Italy	Fabio Massacci
Netherlands	Sandro Etalle, University of Twente
Norway	Peter Herrmann
Norway	Ketil Stolen
Spain	Javier Lopez, University of Malaga
UK	Theo Dimitrakos, British Telecom
UK	Stefan Poslad
USA	Ningui Li,
USA	John Mitchell,
USA	Simon Shiu
USA	Will Winsborough,
USA	Marianne Winslett,

- **Officers, history**

The working group was established in 2006, the current team of officers is the first team.

Annex a. Workplan

- Past events / achievements / products
(first time after one year of formal existence of the working group)
- Planned events

The following events are the events the working group will investigate for establishing relationships. The Steering Committee of iTrust has already expressed an interest in iTrust becoming an event of the new working group. This will be further discussed and formalized between the working group and the SC of iTrust for iTtrust'2007.

4th International Conference on Trust Management (iTrust'2006)
16-19 May 2006, Pisa, Italy, <http://www.iit.cnr.it/iTrust2006>

3rd International Conference on Trust and Privacy in Digital Business (TrustBus'06)
4-8 September 2006, Krakov, Poland, <http://www.icsd.aegean.gr/trustbus06>

2nd International Workshop on Security and Trust Management (STM'06)
20 September 2006, Hamburg, Germany (in conjunction with ESORICS 2006),
<http://www.hec.unil.ch/STM06/>