

Brussels – 21-22nd June 2012

**Building International Cooperation for Trustworthy ICT: Security,
Privacy and Trust in Global Networks & Services**



BUILDING International Cooperation
for Trustworthy ICT

**BIC Working Groups workshops on coordination of the cross
domain activities in International Cooperation and Trustworthy ICT**

Diamant Conference Centre – Auguste Reyerslann 80, 1030 Schaerbeek, Brussels, Belgium



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Workshop Venue

The venue for the workshop both days is the **Diamant Brussels Conference & Business Centre** located at Bd A. Reyerslaan 80 - 1030 Brussels. Phone number is +32 2 706 88 00.

Route information and map can be downloaded from:

http://www.diamant.be/images/stories/downloads/route_eng.pdf

How to reach Diamant Conference Centre by public transport:

Bus and pre-metro lines have their stop at “Diamant - station” under the Reyers viaduct. The Diamant Conference Centre is located a few steps further on the corner behind the bridge – next to the “RTBF” – radio and television tower.

- From the airport (+/- 30 min.):
 - Bus line 21 direction “Ducale” or 12 direction “Luxembourg”
- From the European Institutions – Schuman (+/- 15 min.):
 - Bus line 79 direction “Kraainem”
- From Central Station (+/- 20 min.):
 - Metro line 1 direction “Stockel”, stop “Montgomery”
 - Pre-metro line 25 direction “Rogier” or 7 direction “Heyzel” for 2 stops
- From Midi Station (+/- 30 min.):
 - Metro line 2 direction “Simonis Elisabeth”, stop “Arts-Loi”
 - Metro line 1 direction “Stockel”, stop “Montgomery”
 - Pre-metro line 25 direction “Rogier” or 7 direction “Heyzel” for 2 stops.

How to reach Diamant Conference Centre by car:

1. A) From E40 “Ostende” or E19 “Antwerpen”:
 - Close to “Brussels”, turn right: R0 towards “Zaventem” – E411 “Namen/Namur”.
 - Take the exit: E40 / A3 towards “Luik – Leuven – Brussel”.
1. B) From E19 “Mons – Bergen” or E411 “Namen – Namur”:
 - Close to “Brussels”, turn right: R0 towards “RING-EST” (coming from Mons) or “Zaventem” (coming from Namur).
 - Take the exit: E40 / A3 towards “Sint-Stevens-Woluwe / Brussel – Luik – Leuven”.
2. Take direction “Brussel”:
 - Take the exit 18 towards “Meiser – Reyers” right before the tunnels and keep extremely right. You are at the backside of the Diamant Building. Follow “Kolonel Bourg” street until the cross point with the “Boulevard A. Reyers”. Turn right and a few meters further you can enter Diamant's underground parking at your right side after the building.

Lunch:

The BIC project will host a lunch during both days at 12:30.

Internet/WIFI access

Username/password codes for 24 hours access will be distributed each morning at the venue on an as-needed basis.



Introduction to the BIC project

The purpose of the BIC coordination action project is to foster cooperation across the international programme agencies and researchers within the focus areas of ICT Trust and Security, in order to:

- (a) understand the activities and planning of the target countries; and
- (b) carry out a mapping of the European Commission's planning to them, such that a common technical and policy alignment is viable.

The building of international cooperation is a collaborative effort that only works if it reflects the views and priorities of the target countries as well as buy-in from technical experts of the EU along with the target countries. Hence, this component of community building is a key role of the Working Groups (WGs) of BIC as shown highlighted in figure 1. The areas and scope of the three working groups were agreed during the [First BIC Annual forum](#)¹ held in November 2011 and this set of workshops over two days are the launching workshops of the three BIC WGs:

1. **WG1. Human oriented /citizen trust, privacy and security**, which will focus on topics related to a multi-disciplinary approach for international cooperation amongst all stakeholders;
2. **WG2. Network Information security / Cybersecurity**, which will focus on topics related to the need for international cooperation for enabling the protection of networks and systems;
3. **WG3. Programme /funding focus/ identify community**, which will focus on the requirements, processes, mechanisms and barriers to enable collaboration opportunities.

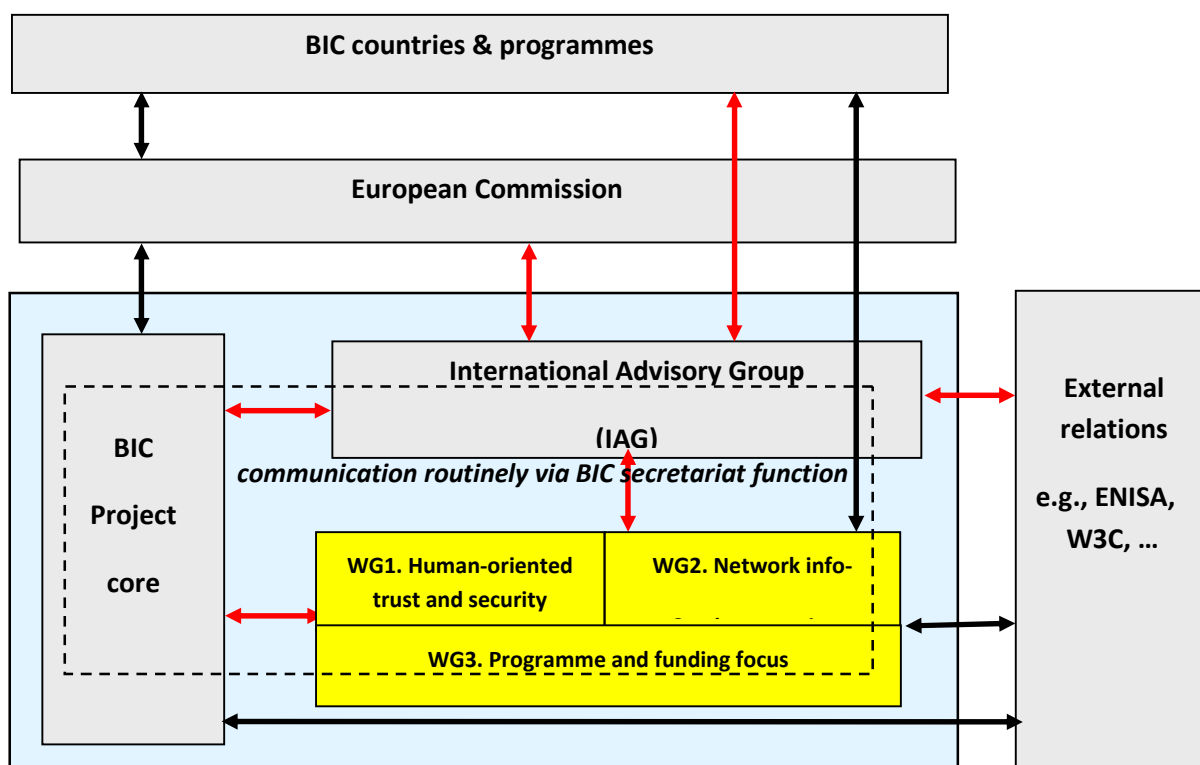


Figure 1. Overall structure of BIC project and external bodies

¹ <http://www.bic-trust.eu/events/1st-bic-annual-forum/>

Organising Committee of the BIC Workshop

An organising committee with experts from a number of relevant International cooperation (INCO) projects has been convened for the planning and organisational aspects of the Workshop. The BIC project is very grateful to the Organising Committee members.

Name	INCO Project(s)
Jim Clarke	BIC
Paul Cunningham	IST Africa
Laura de Nale	EuroAfrica-P8
Rado Faletic	FEED , AUS-ACCESS4EU , and PACE-Net
Ashok Kar	EU – India Spirit
Fernando Kraus Sanchez	BIC
Katja Legiša	Synchroniser
Alberto Masoni	Euro-IndiaGrid2
Kay Matzner	OpenChina-ICT
Marcelo Pasin	SECFUNET
Michel Riguïdel	BIC
Julián Seseña Navarro	FIRST , FORESTA
Priscila Solis Barretto	University of Brasilia
Neeraj Suri	BIC
Barend Taute	EuroAfrica-P8 , PAERIP
Camille Torrenti	OpenChina-ICT , SEACOOOP , EuroAfrica-P8
Yolanda Ursa	AMERICAS

As there was a Security workshop being held during the Digital Agenda Assembly event on 21st June 2012, it was decided to hold the WG 3 (Programme /funding focus/ identify community) workshop during 21st June 2012 and the joint WG1 (Human oriented /citizen trust, privacy and security) and WG2 (Network Information security / Cybersecurity) workshop during 22nd June 2012 to enable those attending the DAA event to also attend the BIC Workshop on Day 2.

Terms of Reference Day 1 (21st June 2012)

Title: Coordination of the cross domain activities in International Cooperation

Background: The European Commission is advocating and supporting strong cooperation internationally, with the following objectives:

- To jointly develop ICT solutions to international societal and economic challenges relating to the security and trustworthiness of the global ICT systems, services and infrastructures;
- To jointly respond to major global technological and operational challenges by developing interoperable solutions and standards;
- To improve scientific and technological cooperation for mutual benefit.

At the [1st BIC Annual Forum](#)² in November 2011, a key recommendation was made for enhanced coordination and information-sharing across the variety of bi-lateral International Cooperation (INCO) activities sponsored by the European Commission. As BIC spans multiple countries with a unique multi-lateral profile, BIC aims to further this recommendation by hosting a workshop that brings together the multiple projects and stakeholders that are already engaged in International cooperation with the intent to:

- Explore the insights and common experiences across projects;
- Identifying, discussing and assessing (a) key challenges, issues and priorities; and (b) mechanisms for international cooperation that are already available;
- Explore possible synergistic approaches for mutual collaboration, cooperation and organising future joint INCO research activities and its supporting programmes.

Objectives: The Workshop aims to achieve the following concrete outcomes:

- From the experiences and insights of the participants, determine the ways to move forward on international cooperation, and future calls for collaborative research;
- Forming the current bi-lateral (and potentially overlapping) country to country cooperation into a comprehensive and coordinated global cooperation;
- Compiling a *who's who* directory of agency and research contacts across the countries;
- Identification of "success metrics" for international cooperation and collaboration:
 - rationale – motives and goals – engagement in international cooperation;
 - success criteria with regard to results;
 - analysis and assessment of INCO impact.

Format: After the opening plenary session, there will follow a number of round table style interactive sessions composed of a series of presentations and discussions of topics each with a nominated moderator. In order to be more concrete in terms of results, each session will be as self-contained as possible, generating input to the workshop results highlighted by assigned rapporteurs in conjunction with the moderator and participants.

² <http://www.bic-trust.eu/events/1st-bic-annual-forum/>



Agenda Day 1 (21st June 2012)

09:30 – 10:00	Registration of participants
10:00 – 10:30	1. Welcoming and opening session Objectives of workshop – Jim Clarke, Waterford Institute of Technology and BIC coordinator Opening of workshop from Alvis Ancans, European Commission, Unit A2, International relations.
10:30 – 12:30	2. Strategic perspective (multi-lateral/ global approach); Chair: Yolanda Ursa; Rapporteur: Karima Boudaoud. Round table panellists: Yolanda Ursa, Abhishek Sharma, Rado Faletic, Camille Torrenti, Julián Seseña Navarro, Barend Taute. Format: 6 talks for 12 minutes each followed by 48 minutes of moderated discussion to arrive at agreement on answers to the following questions (and others raised in discussions): + current approaches seem to be heavily shifted towards bi-lateral cooperation only; should we consider ways to shift this balance to multi-lateral? + what can you do/not do multi-laterally? + What are the underlying activities that must be done on a multi-lateral basis to enable international cooperation? + What do we need to do to ensure interoperability of things? + What mechanisms are currently available? + What mechanisms are needed? + What would the success metrics for these types of projects?
12:30	Lunch
13:30 – 15:30	3. Tactical/operational perspective (bi-lateral approaches); Chair Paul Cunningham, Rapporteur: Mounib Mekhilef. Round table panellists: Paul Cunningham, Alberto Masoni, Katja Legiša, Kay Matzner, Ashok Kar, Priscila Solis Barreto Format: 6 talks for 12 minutes each followed by 48 minutes of moderated discussion to arrive at agreement on answers to the following questions (and others raised in discussions): + lessons learned from Member State(s)–country (e.g. France– India) and/or EU – country (e.g. EU – India) + What are concrete - specific collaborative projects between EU and individual 3rd countries? + What mechanisms are currently available? + What are the barriers/obstacles? + What mechanisms are needed? + What would the success metrics for these types of projects?
15:30	Tea Break
16:00 – 17:00	4. How to best move forward. Chair: Julián Seseña Navarro; Rapporteur: Nick Papanikolaou. Round table panellists: All chairs and rapporteurs from previous sessions. Julián Seseña Navarro; Mounib Mekhilef; Jim Clarke, Yolanda Ursa; Karima Boudaoud. Paul Cunningham; Nick Papanikolaou. Format: Moderated discussions to arrive at conclusions, recommendations and ways forward. + Is there something required in between tactical and strategic? For example, mini - multi-laterals or joined multiple bi-laterals? Or would this be overly complicated? + Should there be an international advisory group monitoring the maturity levels as they develop into multi-lateral? + Based on your experiences, what is your resulting vision on where we should go? + What are the possibilities that you envisage? + What support is required to accomplish this vision? + Conclusions and what's next / External actions & recommendations.
17:00	Workshop closes



Terms of Reference Day 2 (22nd June 2012)

Title. BIC technical workshop on International Cooperation in Trustworthy ICT

Background: While the focus on Day 1 of the workshop will be on the requirements, mechanisms and processes involved in building a long term strategy towards international cooperation in the RTD programme in broader areas than just Trustworthy ICT, the focus on Day 2 will be on the two technical working groups of BIC, specifically dealing with Trustworthy ICT, namely,

1. **WG1. Human oriented /citizen trust, privacy and security**, which will focus on topics related to a multi-disciplinary approach for international cooperation amongst all stakeholders;
2. **WG2. Network Information security / Cybersecurity**, which will focus on topics related to the need for international cooperation for enabling the protection of networks and systems;

Objectives: The Workshop aims to facilitate the WGs to provide the following outcomes:

- Refine thematic focus within the domains covered by the WGs by leveraging domain knowledge, familiarity with context and environment and research experience. Shortlist a set of actionable themes to be taken up in the EU-International joint research context.
- Identify and validate long term common shared research perspectives for international cooperation of mutual interests, aligned with the ICT trust and security research domains within the EU research vision and priorities (FP7 and H2020);
- Represent stakeholder views to be expressed toward the decision makers (the European Commission and the respective Governments for which they carry out research) in the formulation of enabling and relevant policies;
- Provide expert advice to BIC in thematic areas of competence and direct the project consortium to material, publications, activities, projects that might be of interest to BIC, its objectives and actions;
- Assist the BIC project to leverage its actions into achievements within the larger community of stakeholders and institutions. This would include being an advocate for the project and taking part in the organisation of local workshops to broaden the community of participants within their respective countries.

Format: After the opening plenary session, the WG sessions consist of a series of discussions of identified topics for international cooperation in trustworthy ICT each led by nominated person(s) as a topic 'animator(s)'. The animator(s) will open the topic with a short presentation and open the floor to all participants to actively involve themselves within the topics of their expertise. In the middle of the workshop, the breakout groups will return to plenary to reflect and take stock of where each WG is at that time. Ample time will be allotted to new topics of interest that might not have been raised already. The workshop will seek to provide tangible results along the lines of internal actions and work-items for the working groups and external recommendations and suggested actions towards the scoping of issues, priorities and topics for future INCO projects.



Agenda Day 2 (22nd June 2012)

09:30 - 10:00	Registration of participants
10:00 – 10:30	Opening plenary Objectives of workshop and recap from day 1 – Jim Clarke, Waterford Institute of Technology and BIC coordinator Opening and welcome from Martin Muehleck, European Commission, Unit F5, Trust and Security.
10:30 – 12:30 WGs in parallel break-out sessions	WG1 – Human oriented /citizen trust, privacy and security Chair: Fernando Kraus Sanchez; Rapporteur: Henning Arendt 1.1 User centricity: Karima Boudaoud and Mounib Mekhilef 1.2 Privacy and data protection: Alan Hartman and Claudia Diaz 1.3 Trust Management in secure software: Fabio Martinelli 1.4 Accountability: Nick Papanikolaou WG2 – Network Information security / Cybersecurity Chair: Michel Riguidel; Rapporteur: Jim Clarke 2.1 Emerging threats and actors: Sotiris Ioannidis 2.2 Int'l data exchange architecture for cooperation on cybersecurity and intelligence: John C. Mallery 2.3 Int'l approaches to cryptography: Bart Preneel 2.4 Mobile security: Abhishek Sharma 2.5 Digital forensics: Katrin Franke
12:30 – 13:30	Lunch
13:30 – 14:00 in plenary	Plenary 1 – Summary of the picture so far: WG1 – Fernando Kraus Sanchez / Henning Arendt WG2 - Michel Riguidel / Jim Clarke Summarise on trends, commonalities, cross-overs, ...
14:00 – 16:00 WGs in parallel break-out sessions	WG1 – Human oriented /citizen trust, privacy and security Chair: Fernando Kraus Sanchez; Rapporteur: Henning Arendt 1.5 Data Provenance (verifying source and integrity of data): Priscila Solis Barreto. 1.6 Social computing: Marijke Coetzee 1.7 Global ecosystem of personalized user centric IDM: Lefteris Leontaridis 1.8 New topics (what else needs to be tackled?): Fernando Kraus Sanchez WG2 – Network Information security / Cybersecurity Chair: Michel Riguidel; Rapporteur: Jim Clarke 2.6 Int'l approaches to critical infrastructure protection: Manmohan Chaturvedi 2.7 Security and Virtualisation: Syed Naqvi 2.8 Implications arising from identity and privacy related issues on a global scale: Alberto Crespo Garcia 2.9 New topics (what else needs to be tackled?): Michel Riguidel
16:00 – 17:00 in plenary	Plenary 2 – Roundtable of all of the above chairs, rapporteurs and 'animators' to wrap up on summaries, conclusions and what is next: - Summarise on trends, commonalities, cross-overs, ... - Internal ie. Working Groups action plans - External actions & recommendations.
17:00	Workshop closes



Registered Participants (as of 14th June 2012)

Alvis Ancans, European Commission, DG INFSO

Henning Arendt, @bc

Vlad Arsene, Mira Telecom

Behzad Bordbar, University of Birmingham, UK

Karima Boudaoud, I3S Laboratory - University of Nice Sophia Antipolis/CNRS

Manmohan Chaturvedi, IIT Delhi

James Clarke, Waterford Institute of Technology

Marijke Coetzee, University of Johannesburg

Alberto Crespo, Atos Spain S.A.

Paulo deSousa, Independent, ex-European Commission

Claudia Diaz, COSIC, KU Leuven

Rado Faletic, Forum for European-Australian Science and Technology cooperation

Carmen Fernandez Gago, University of Malaga

Gerardo Fernandez Navarrete, NICS Lab - University of Malaga

Kraus Fernando, Atos Spain

Katrin Franke, Norwegian Information Security Laboratory

Em Gee,

Alan Hartman, IBM

Keith Howker, Waterford Institute of Technology - TSSG

Sotiris Ioannidis, FORTH

Vishal Jain, 451 research

Ashok Kar, Infra Technologies

Katja Legisa, TESEO

John C.Mallery, CSAIL, Massachusetts Institute of Technology

Fabio Martinelli, National Research Council of Italy

Alberto Masoni, INFN - National Institute of Nuclear Physics

Mounib Mekhilef, Ability Europe Ltd.

Martin Muehleck, European Commission, DG INFSO

Syed Naqvi, CETIC

Nick Papanikolaou, HP Labs

Bart Preneel, COSIC, KU Leuven

Michel Riguidei, Telecom ParisTech

Julián Seseña, ROSE VISION

Abhishek Sharma, Beyond Evolution Tech Solution Pvt. Ltd.

Parminder Jeet Singh, IT for Change

Priscila Solis Barreto, University of Brasilia

Neeraj Suri, TU Darmstadt

Camille Torrenti, Sigma Orionis

Yolanda Ursa, INMARK