



Theme [ICT-2011.1.4]
Trustworthy ICT

SECurity and trust COoRDination and enhanced collaboration

Project N° 316622



Deliverable 2.1 Assessment and Proposed Evolution of T&S Clusters

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Executive Summary

The SecCord Deliverable D2.1 describes the process and the results towards the restructuring and new thematic directions of the collaborative activities (i.e., project clusters).

Starting from the experience of EFFECTS+, and its clusters, the work of WP 2 has been focused in its initial phase on:

- Introducing *Project clusters* to newly funded trust and security projects coming from Call 8.
- Analysing the topics of these new projects, and getting updates from previous participants of EFFECTS+ clusters
- Discussing new topics for possible collaborations
- Discussing instruments to enhance these collaborations, starting from the lesson learned from EFFECTS+

The previous points have been preliminary discussed in the project community by email interactions, and they were the main theme of the *Clustering Open Communications Event*, held in Brussels the 7th February 2013.

During this meeting 12 projects (mostly from Call 8) introduced themselves, and expressed a strong interest for SecCord activity. From the content perspective, we identified three topics, with a relevant cross-project overlapping: Security Assurance, Security Economics and incident data sharing.

From the methodological point of view, most of the participants were in favor of having a single (*technical*) cluster, in contrast to the two of EFFECTS+. As consequence SecCord is focusing on two clusters: one devoted to technical topics, and a second one targeting Coordination Actions, Support Actions and Network of Excellence (*Networking and Coordination Cluster*).

Project clusters have been also actively involved in the organization of CSP forum 2013, which was organized using a similar structure as last year (keynotes in plenary session and parallel cluster workshops), with the addition of the collaboration with the European Association for e-Identity and Security (EEMA) and Trust in Digital Life (TDL).

Additional initiative have been planned for the remaining of the year, including follow-up of CSP forum workshops results, an additional cluster meeting, likely to be held in October-November 2013 focused on one of the topics discussed during the *Open Communications Event*.

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Abbreviations

CSP EU FORUM	Cyber Security & Privacy Forum
EFFECTS+	European Framework for Future Internet – Compliance, Trust, Security and Privacy through effective clustering
SecCord	SECurity and trust COoRDination and enhanced collaboration

1 Introduction

The SecCord Deliverable D2.1 describes the process and the results towards the restructuring and new thematic directions of the collaborative activities (i.e., project clusters), targeting the first 6 months of SecCord's project lifetime.

The main objective of project clusters is to facilitate productive collaboration and partnerships between researchers, academics, industry and other security and trust initiatives. In this context, the first step is re-assessing the existing project clusters (i.e., EFFECTS+ project clusters), involving the Call 8 funded trust and security projects and other security and trust initiatives, as well as establishing instruments to facilitate collaboration.

Accordingly, the work of WP 2 has been focused in its initial phase on:

- Introducing *Project clusters* to newly funded trust and security projects coming from Call 8.
- Analyzing topics of these new projects, and getting updates from previous participants of EFFECTS+ clusters
- Discussing new topics for possible collaborations
- Discussing instruments to enhance these collaborations, starting from the lesson learned from EFFECTS+.
- Preparing a plan to advance collaboration activities in Trust and Security research

The previous points have been preliminary discussed in the project community by email interactions, and they were the main theme of the first cluster meeting (for an update plan of events see Section 2) *Clustering Open Communications Event*, held in Brussels the 7th February 2013, as described in Section 2.1. At the same meeting, and shortly after that, clusters have been active in the organization of CSP Forum 2013 (see Section 2.2), which constitutes a major event for SecCord. Section 3 reports a summary of the initial discussion and first decisions taken in terms of topics and instruments.

Note: due to the significant overlapping between the initial phase of SecCord and the last months of EFFECTS+, part of the content of this deliverable was also present in EFFECTS+ D3.6 Deliverable, although in a preliminary version.

2 Events

SecCord collaboration event plan has been modified in the early phase of the project. Indeed, considering the success of the previous CSP EU forum (CSP2012, organized by EFFECTS+) SecCord consortium decided to build upon the momentum and brand of 2012 event, reorganizing the schedule of collaboration events for SecCord lifetime, to assure that CSP EU forum could be held in the same period of the year (April-May). This implied a change in the schedule of the other planned collaboration events compared to original plan (Fig.6 of the SecCord Description of Work).

The updated plan is reported in Table 1. Clearly, according to the philosophy of SecCord, this plan is subject to changes to better optimize the collaboration among projects and to respond to changing priorities.

Table 1: Plan of Collaboration Events (including CSP EU Fora)

	Workshops	Location	Month	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15				
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36				
1	Effectsplus Open communications Event	Brussels	4					■																																			
2	CSP 2013	Brussels	7						■																																		
3	Collaboration Event	TBA	13												■																												
4	Collaboration Event	TBA	16																																								
5	CSP 2014	TBA	19																																								
6	Collaboration Event	TBA	23																																								
7	Collaboration Event	TBA	28																																								
8	CSP 2014	TBA	31																																								
9	Collaboration Event	TBA	35																																								

2.1 Clustering Open Communications Event, Brussels, 7th February 2013

10.00-11.00	Welcome Unit H4 European Commission Speaker : Florent Frederix : “Clustering ICT Security Research in Europe” Session I : CSP FORUM - Paul Malone (WIT) Trust and Security Clustering plans 2013 - Michele Bezzi (SAP)
11 :00-11:30	Tea/Coffee Break provided for attendees
11 :30 – 12: 30	Session II : Project Research to Industry Impact - Oscar Morales Lumar (ATOS) Trustworthy ICT research projects portfolio - Bruno Crispo (UNITN)
12:30 – 13:30	<i>Lunch provided for attendees</i>
13:30 – 15:15	Session III :Trustworthy ICT - Newly Funded Projects - CYSPA (Sophie Batas) - CUMULUS (Bartolomeo Sapio) - INTER-TRUST (Mr. Wissam Mallouli) - HINT (Mr. Carsten Rust) - STANCE (Armand Puccetti) - TRESCCA (Gunnar Schomaker)
15:15 – 15:30	<i>Tea /Coffee Break provided for attendees</i>
15:30 - 17:00	Session III :Trustworthy ICT - Newly Funded Projects (contd) - D-MILS (Rance DeLong) - A4CLOUD - (Nick Wainwright) - FIRE – Facilitate Industry & Research in Europe - (Javier Vendrell) - TRESPASS - (Wolter Pieters) - CIRRUS (Fernando Kraus Sanchez) - OPTET (Mike Surridge) Open Discussion : Where clustering community is going - benefit of participation Previous projects experience / engagement in clustering - (lessons learned)
17.00	Close Workshop - WRAP UP

Figure 1: Clustering Open Communications Event Programme

2.1.1 Motivations

The meeting was mainly devoted to introduce the SecCord activity (as follow-up of EFFECTS+) and the new Call 8 projects.

EFFECTS+ was in its final month, and part of the activity of project clusters continues under the umbrella of SecCord coordination action (notably in WP2: *Support Enhanced Collaboration*). Although WP2 is building upon EFFECTS+ experience, SecCord clustering objectives differ from EFFECTS+. From a thematic point of view, greater importance is devoted to non-technical only discussions, including exploitation, social impact, etc.. From the operational perspective, the role of a large Trust and Security annual conference (CSP forum) has become more central. Both these changes have been started during EFFECTS+ lifetime, although not present in the original EFFECTS+ plan.

The second main objective of the meeting was to allow new projects (Call 8) to quickly introduce them, and starting outlining the main themes where collaboration with other projects may take place.

Lastly, the meeting was also an opportunity to present some of the results of the ending EFFECTS+ (industry impact, detailed analysis of projects landscape), to discuss the lesson learned from EFFECTS+, to present the upcoming CSP forum 2013 and to hear the Commission’s point of view on Clustering.

2.1.2 The meeting

The program has been structured in three phases (for the detailed program see Fig.1):

- **Introduction of clustering activities:** Florent Frederix from H4 of European Commission presented the Commission point of view on clustering activities.
- He stressed the relevance of clusters, as a major instrument to provide a “big picture” of Security research from projects, and relevant inputs to the Commission.
- Paul Malone from WIT gave an introduction of SecCord, in particular of the upcoming CSP Forum 2013 (to be held in Brussels in April 2013).
- **Impact and project portfolio:** In this session ATOS and UNITN presented two relevant results from EFFECTS+ (which are also part of SecCord mission). ATOS shortly introduced Research to Impact topic (previously discussed in the EFFECTS+ Exploitation and Impact workshop in Padua). Then Bruno Crispo, reported on the analysis of projects landscape (see EFFECTS+ WP2 deliverables).
- **Discussion & future initiatives.** In this session 12 security and trust projects, mostly from Call 8 presented project goals, main topics, and possible topics of inter-project discussions. This was the basis for the open discussion, which ended the day, where several topics were identified (see below).

2.1.3 Discussion and conclusions

In the discussion, we highlighted the topics of overlapping between projects, the most popular ones are listed below: (for a more detailed discussion on these topics see Section 3)

- **Software Assurance and Security Certifications**
- **Sharing Security Data**
- **Security Metrics and Security Economics**

In addition, topics like mobile security, cybersecurity, privacy and data protection were highlighted. Regarding the latter, data protection, it was stressed its increasing relevance in the view of the upcoming EU regulation.

2.2 Organisation of CSP Forum 2013

In the last semester, SecCord clusters were also involved in the preparation/organization of Cyber Security & Privacy EU Forum (CSP) 2013

CSP 2012 was a highly successful event. For the 2013 we decided to use a similar structure plenary sessions with keynotes and parallel cluster workshop sessions, with the addition the collaboration with the European Association for e-Identity and Security (EEMA) and Trust in Digital Life (TDL).

This convergence of forces has enabled extending the reach of the previous event, in particular towards industrial partners.

The response to the call for workshops was good, 7 workshops were selected (see Fig. 2 and Fig.3 for the preliminary program). Several of these workshops came about due to collaboration initiated during EFFECTS+ clustering activities.

More details, including the presentations can be found <http://www.cspforum.eu/2013> website.

Day 1 - Thursday 18th April 2013

Track 1 – Plenary: Challenges and Opportunities for Cyber Security Strategy and Horizon 2020

Chair: Roger Dean, EEMA
Introductory Presentation: Giuseppe Abbamonte
Head of Unit, DG Connect
Panel discussion with:
Aljosa Pasic, ATOS.
Mika Lauhde, Nokia
Katja Van Hoever, Dutch National Police.
Nils Inge Brurberg, BankID.
Ronny Bjones, Microsoft.
Paul Malone, WIT/TSSG.

Track 6 – Accountability in the Cloud

Co-Chairs: Nick Wainright, HP &
Claudio Ardagna, Università degli Studi di Milano.
Participants
Massimo Felici, HP Labs.
Martin Jaatun, SINTEF.
Eleni Kosta, Tilburg Law School, Tilburg University.
Luca Viganò, University of Verona.
George Spanoudakis, City University of London.
Michele Bezzi, SAP.
Ernesto Damiani, Università degli Studi di Milano.
Aljosa Pasic, ATOS.
Per Håkon Meland, SINTEF ICT.
Erkuden Rios, Tecnalía.

Track 7 - eAuthentication

Chair: Harald Zwingelberg, Unabhängiges Landeszentrum für Datenschutz - ULD.
Prof. Kai Rannenber, Goethe Universität Frankfurt
Dr. Ioannis Krontiris, Goethe Universität Frankfurt
Prof. Yannis Stamatou, Computer Technology Institute & Press
Mr. Harald Zwingelberg, Unabhängiges Landeszentrum für Datenschutz

Figure 2: CSP forum 2013: project/cluster workshops (day 1)

Day 2 - Friday 19th April 2013

Track 13 - Security and Privacy Services in The Horizon.

Chair: Dr. Sathya Rao, KYOS, Switzerland
Alvaro Armenteros Pacheco, TID, Spain
Nabil Hachem, Institut Telecom, France
Prof. Ernesto Damiani, Università degli Studi di Milano
Dr Andrew Hutchison, T-Systems, Germany
Dr. Roland Rieke, Fraunhofer, Germany & Romain Giot, France Telecom

Track 14 - Networking and Coordination cluster of CSAs in Trust and Security.

Chair: Jim Clarke, Waterford Institute of Technology (TSSG)
Dr. Florent Frederix, DG CONNECT, Trust and Security unit (H4)
"The importance of effective Clustering of ICT security Research in Europe."
Fabio Martinelli, IIT-CNR – NESSoS NoE."
Evangelos Markatos, FORTH– SysSec NoE."
Ingrid Verbauwhede, KU Leuven - ECRYPT II NoE
Daan Velthausz, BICORE - ATTPS SA."
Aljosa Pasic, ATOS - CIRRUS SA."
Michel Riguide, TELECOM PARISTECH, ENST
Javier Vendrell, AMETIC - FIRE CA."
Thomas Roessler, W3C – STREWS CA."
Emmanuel Miconnet, – CYSPA CA"
Paul Malone, WIT - SecCord CA."

Track 15 - Supporting Security Design and Audit with Model Based Automatic Tools

Chair: Henrik Plate, SAP
Simone Mutti, University of Bergamo
Elicitation, Management and Monitoring of Security Requirements.
Specification and Conflict Analysis of Security Policies for Access Control and
Communication Protection
Selection, Optimization and Automated Configuration of Policy Enforcement
Mechanisms
Standard-based Configuration Analysis and Assessment

A Workshop approach to demonstrating outputs from academic research. Focussed on
the PoSecCo project work to date.

Track 6 - (continued) Assurance for the Cloud – Workshop

Co-Chairs: Ernesto Damiani, Università degli Studi di Milano. Michele Bezzi (SAP).
Claudio Ardagna, Università degli Studi di Milano.
Luca Viganò (University of Verona)
George Spanoudakis (City University of London)
Aljosa Pasic (ATOS)
Per Håkon Meland (SINTEF ICT)
Erkuden Rios (Tecnalia)
Dhoudha Ayed (THALES)
Fabio Martinelli (IIT-CNR)
Jorge Cuellar (Siemens AG)
Marina Egea (ATOS)

Figure 3: CSP forum 2013: project/cluster workshops (day 2)

To increase the dissemination of the results from cluster activities, SecCord has proposed to participants to submit papers to be published in a post-proceedings volume published by Springer, upon acceptance through a peer-review process.

3 Discussion

SecCord research clusters have identified a set of topics with a significant overlapping between projects, the most prominent ones were:

- **Software Assurance and Security Certifications:** most of the projects had in their scope assurance and/or certifications. Note that this topic is also present in Call 5 project, and it was one of the topics of a cluster workshop during EFFECTS+
- **Security Metrics and Security Economics.** How to measure security, and how to measure the business value of security are considered relevant for a large majority of the currently running projects. This topic may well fit with the objective of SecCord to extend the discussion to socio-economic themes.
- **Sharing Security Data:** With the increasing number of security incidents, there is the need to share incident data. These data often contain sensitive information, so research is focused on mechanisms for data sharing which preserve the confidentiality.

These topics will be likely addressed in the next SecCord cluster meetings.

From the methodological point of view, most of the participants were in favor of having a single (*technical*) cluster, in contrast to the two of EFFECTS+. As consequence SecCord is focusing on two clusters: one devoted to technical topics, and a second one targeting Coordination Actions, Support Actions and Network of Excellence (*Networking and Coordination Cluster*). The latter may play an even more important role, compared to the EFFECTS+ experience, due to the large number of recently started Coordination and Support Actions.

In this framework, the CSAs should collaborate among themselves to support the clustering activities, bringing CSA/NoE projects together and integrating activities and results. As a first step, an analysis of the CSA's objectives, specialties of the projects have been performed (see Table 2). Based on this analysis, the *Networking and Coordination Cluster* defined a set of priorities for alignments/actions, including:

- **Research Roadmaps:** This is a topic of activity for several projects, the *Networking and Coordination Cluster* should examine and see how and if they can be aligned and coordinated; in short: who is writing what and when, and what are the priority areas
- **Focus on excellence:** The cluster activity should focus on areas where the EU are known leaders and have a competitive advantage: e.g., cryptography, smart card and smart grid.
- **Sharing information:** People have a limited view on project results (many deliverables are not public, and in any cases scarcely read beyond the authors and Commission/reviewers). Clusters can be used to capture important scientific information from the projects in a consistent way.
- **Learning lessons:** Clusters can be used to gather lessons learned (good and bad) from projects, which are usually never captured anywhere.

SecCord clusters are currently in discussion about next cluster events. Beyond the CSP EU Forum 2013 (April), one of the above mentioned topics will be the focus of the next *technical* cluster event. Date and location are not decided yet, possible choices include co-location with major events: ICT 2013, CloudComm 2013, etc,. It is worth noticing that having the next cluster meeting in the late phase of 2013 will allow SecCord to ask for the participation of

projects likely to start in October-November 2013 (Call 10). The *Networking and Coordination Cluster* will have an additional meeting in 2013, a possible choice is ICT 2013.

Table 2: Commonalities and Specialties of CSA projects¹

	NESSoS	STREWS	CIRRUS	ATPS	FIRE	SysSec	CYSPA	ECRYPT II	BIC	SECCORD
Cloud computing – security certification, internationalisation, standards	👍	👍	👍	👍	👍				👍	
Research agendas	👍	👍	👍	👍	👍	👍	👍	👍	👍	👍
Web services security road map		👍								
Dissemination expertise	👍	👍	👍	👍	👍	👍	👍	👍	👍	👍
Participatory methods e.g. running Advisory Boards, Working groups, Clusters	👍	👍		👍	👍	👍	👍		👍	👍
Establishment of platforms/ infrastructures for cooperation	👍			👍	👍	👍	👍		👍	👍
Repository/platform for dissemination/sharing information		👍	👍	👍	👍	👍			👍	👍
Enabling technologies e.g. Cryptography	👍			👍		👍		👍		
Services and software engineering security	👍	👍	👍							
Building International cooperation (INCO) via road mapping and models									👍	
INCO in terms of involvement of non EU countries		👍	👍	👍	👍	👍		👍	👍	
Policy analysis and support (e.g. for H2020, cyber-security, NIS platform, ...)	👍	👍	👍	👍	👍	👍	👍	👍	👍	👍
Education: summer-schools etc.	👍					👍		👍		
Linkages with industry and industrial sectors	👍	👍		👍	👍	👍		👍		👍

¹ Taken from http://www.cspforum.eu/uploads/CSP_Track14_Report.pdf

4 Concluding Remarks

This document reports on the first 6 months of the WP2 activity. This period has a significant overlapping with EFFECTS+ ending period (EFFECTS+ ended the 28/2/2013). The focus was on this transition, and on redirecting and shaping the clustering planning and activities, providing renewed focus and direction².

In this perspective, the first step of the WP2 addressed bringing on board of recently started Call 8 projects, as well as the discussion on changes in the cluster structure. During the first meeting and in the followup discussion, which was characterized by a good participation of *new* projects, we converged on a two cluster structure, and defined a preliminary list of collaboration topics.

The SecCord clusters also actively participate to the organization of CSP EU Forum, which allows running a significant number of cross-project activities, and extending the reach of SecCord beyond research projects. In fact, 2013 CSP EU Forum is characterized by a large participation of *external* (out-side project clusters) contributions, starting from the co-organizing Trust and Digital Life and EEMA.

² Note that compared to the previous experience in EFFECTS+ we also target collaboration activities going beyond technological aspects, for example, fostering synergy on business cases, and application scenarios and demonstrators.