

COST

Domain Committee "ICT"

COST Action IC1204

Start Date 12/12/2012

Trustworthy Manufacturing and Utilization of Secure Devices

MONITORING PROGRESS REPORT

Reporting Period: from 12/12/2012 to 30/04/2013

This Report is presented to the relevant Domain Committee.
It contains three parts:

- I. Management Report prepared by the COST Office/Grant Holder***
- II. Scientific Report prepared by the Chair of the Management Committee of the Action***
- III. Previous versions of the Scientific Report; i.e., part II of past reporting periods***

The report is a "cumulative" report, i.e. it is updated annually and covers the entire period of the Action.

Confidentiality: the documents will be made available to the public via the COST Action web page except for chapter *II.D. Self evaluation*.

Based on the monitoring results, the COST Office will decide on the following year's budget allocation.

Executive summary (max.250 words):

The Action started few months ago (the grant holder signed the contract mid April), so no expenses have done so far. However, some good results can be already mentioned:

- We organized 5 web-based WG meetings to let everybody introduce him/herself to the community
- A special session on "EU Project Information" is organized at ETS13 where the Chair will give a presentation on this Action
- The Vice-Chair presented the Action at the workshop WRTLT'12 and he organized a special session at VTS'13 titled: "Counterfeit IC Identification: How can Test help?"
- The website of the Action is under construction (www.trudevice.com)
- The 1st workshop of the action will be organized on May 30-31.

I. Management Report prepared by the COST Office/Grant Holder

I.A. COST Action Fact Sheet

- **COST Action IC1204** - Trustworthy Manufacturing and Utilization of Secure Devices
- **Domain** Information and Communication Technologies (ICT)

- **Action details:**

CSO Approval: 07/06/2012
Entry into force: 12/12/2016

End date: 11/12/2016
Extension:

- **Objectives**

The aim of the Action is to identify new design and manufacturing flows for the production of secure integrated circuits by creating a strong network between several centers of expertise on hardware security at European level, and to substantially increase the level of cooperation and consequent visibility of European research on this vital topic.

- **Parties:** list of countries and date of acceptance

Belgium (21/09/2012)	Greece (29/08/2012)	Slovakia (02/09/2012)
Czech Rep. (06/12/2012)	Israel (15/10/2012)	Slovenia (08/11/2012)
Finland (10/09/2012)	Italy (28/11/2012)	Spain (22/10/2012)
FYR of Macedonia (25/10/2012)	Netherlands (27/06/2012)	Sweden (20/09/2012)
France (25/07/2012)	Norway (20/12/2012)	Switzerland (16/07/2012)
Germany (05/07/2012)	Portugal (26/09/2012)	United Kingdom (13/06/2012)

- **Intentions to accept:** no intentions to accept so far
- **Other participants:** no other participants

Chair:

Giorgio Di Natale
 CNRS
 LIRMM, 161 rue Ada, Montpellier (FR)
 +33467418501
 giorgio.dinatale@lirimm.fr

DC Rapporteur:

Professor Jozef Juhar
 Technical University of Košice
 Letna 9, 042 00 Košice, Slovakia
 +421556022333
 Jozef.Juhar@tuke.sk

Science Officer:

Mr Ralph Stuebner
 ralph.stuebner@cost.eu

Administrative Officer:

Mr Philippe Callens
 philippe.callens@cost.eu

Action Web site:

<http://www.trudevice.com>

Grant Holder Representative

CNRS, Rue Michel Ange n°3 - 75794
 PARIS cedex 16 represented by Mrs
 Ghislaine GIBELLO, Regional Delegate
 CNRS Languedoc-Roussillon

- **Working Groups**

WG1: Manufacturing test of secure devices

Said HAMDIOUI TU Delft
Marie-Lise FLOTTES LIRMM - CNRS/Univ Montpellier 2
Nicolas Sklavos Tech. Educ Institute Patras
Lejla Batina iCIS - Radboud University Nijmegen
Nele Mentens, KU Leuven
David Hély Grenoble INP - LCIS2
Bruno Rouzeyre LIRMM - CNRS/Univ. Montpellier 2
Francesco Regazzoni ALaRI - Univ. of Lugano
Viacheslav Izosimov SemCon
Urban Ingelsson SemCon
Salvador Manich UPC

WG2: Trustworthy manufacturing of secure devices

Paris Kitsos, EAP
Lilian Bossuet, U. St. Etienne (FR)
Nicolas Sklavos, Teipat Petras
Osnat Keren, Bar-Ilan Univ.
Artemios Voyiatzis
Lejla Batina
Julien Francq, Cassidian (FR)
Assia Tria, CEA (FR)
Nele Mentens, KU Leuven
David Hély
Bruno Rouzeyre
Said HAMDIOUI
Pedro Peris-Lopez
Philippe Loubet Moundi
Milos Drutarovsky
Marie-Lise FLOTTES
Francesco Regazzoni
Franck Courbon
Róbert Lórencz

WG3: Fault attack detection and protection

Bernd Becker U. Freiburg
Bruno Rouzeyre LIRMM
Nicolas Sklavos TEIPAT Patras
Lilian Bossuet
Zebo Peng U. Linköping
Osnat Keren Bar-Ilan Univ.
Lejla Batina
Julien Francq Cassidian
Assia Tria
Ilia Polian U. Passau
Nele Mentens
David Hély INP Grenoble
Said HAMDIOUI
Carles Ferrer
Philippe Loubet Moundi Gemalto
Viktor FISCHER
Marie-Lise FLOTTES LIRMM
Francesco Regazzoni U. Lugano
Paolo Maistri CNRS/TIMA
Tim Güneysu Ruhr U. Bochum

Franck Courbon Gemalto/ENSM.SE
Róbert Lórencz
Viacheslav Izosimov Semcon
Urban Ingelsson Semcon
Jean-Max Dutertre ENSMSE
Linus Feiten U. Freiburg
Ricardo Chaves IST, TU Lisbon
Noemie Boher INP Grenoble, ST

WG4: Reconfigurable devices for secure functions

Viktor Fischer
Nele Mentens
Nicolas Sklavos
Francesco Leporati
Lilian Bossuet
Lejla Batina
Julien Francq
Guy Gogniat
Carles Ferrer
Milos Drutarovsky
Francesco Regazzoni
Paolo Maistrii
Tim Güneysu
Róbert Lórencz

WG5: Validation, Evaluation, and Fault Injection

Lejla Batina
Nicolas Sklavos
Lilian Bossuet
Zebo Peng
Bernd Becker
Paris Kitsos
Artemios Voyiatzis
Julien Francq
Assia Tria
Ilia Polian
Nele Mentens
Guy Gogniat
David Hély
Bruno Rouzeyre
Said HAMDIOUI
Philippe Loubet Moundi
Viktor FISCHER
Marie-Lise FLOTTE
Francesco Regazzoni
Paolo Maistrii
Tim Güneysu
Franck Courbon
Róbert Lórencz
Noemie Boher

I.B. Management Committee member list

Name	Country	E-mail
Ingrid VERBAUWHEDE	Belgium	ingrid.verbauwhede@esat.kuleuven.be
Nele MENTENS	Belgium	Nele.Mentens@esat.kuleuven.be
Robert LORENCZ	Czech Republic	lorencz@fit.cvut.cz
Elena TROUBITSYNA	Finland	Elena.Troubitsyna@abo.fi
Philippe LOUBET MOUNDI	France	Philippe.LOUBET-MOUNDI@gemalto.com
Assia TRIA	France	tria@emse.fr
Ilija POLIAN	Germany	ilia.polian@uni-passau.de
Bernd BECKER	Germany	becker@informatik.uni-freiburg.de
Paris KITSOS	Greece	pkitsos@eap.gr
Nicolas SKLAVOS	Greece	nsklavos@ieee.org
Osnat KEREN	Israel	osnat.keren@biu.ac.il
Francesco LEPORATI	Italy	francesco.leporati@unipv.it
Prof Paolo PRINETTO	Italy	Paolo.Prinetto@polito.it
Lejla BATINA	Netherlands	lejla@cs.ru.nl
Said HAMDIOUI	Netherlands	S.Hamdioui@tudelft.nl
Danilo GLIGOROSKI	Norway	danilo.gligoroski@item.ntnu.no
Ricardo CHAVES	Portugal	ricardo.chaves@inesc-id.pt
Milos DRUTAROVSKY	Slovakia	Milos.Drutarovsky@tuke.sk
Franc NOVAK	Slovenia	franc.novak@ijs.si
Anton BIASIZZO	Slovenia	anton.biasizzo@ijs.si
Carles FERRER	Spain	carles.ferrer@uab.cat
Pedro PERIS LOPEZ	Spain	pperis@inf.uc3m.es
Viacheslav IZOSIMOV	Sweden	Viacheslav.Izosimov@eis.semcon.com
Zebo PENG	Sweden	zebo.peng@liu.se
Mariagiovanna SAMI	Switzerland	maria.giovanna.sami@usi.ch
Igor STOJANOVIKJ	Macedonia	igor.stojanovik@ugd.edu.mk
Vesna DIMITROVA	Macedonia	vesna.dimitrova@finki.ukim.mk
Alexander BYSTROV	United Kingdom	a.bystrov@newcastle.ac.uk
Petr FISER	Czech Republic	fiserp@fit.cvut.cz
Marie-Lise FLOTTES	France	flottes@lirmm.fr
Julien FRANCCQ	France	Julien.Francq@cassidian.com
Martin KREUZER	Germany	martin.kreuzer@uni-passau.de
Tim GUNEYSU	Germany	tim.gueneysu@ruhr-uni-bochum.de
Artemios VOYIATZIS	Greece	bogart@isi.gr
Dimitris GIZOPOULOS	Greece	dgizop@di.uoa.gr
Apostolos FOURNARIS	Greece	apofour@ece.upatras.gr
Hector ROLDAN	Portugal	hector@sips.inesc-id.pt
Salvador MANICH	Spain	salvador.manich@upc.edu
Urban INGELSSON	Sweden	urban.ingelsson@semcon.com
Francesco REGAZZONI	Switzerland	regazzoni@alari.ch

I.C. Overview activities and expenditure

2013 Budget (from 01/04/2013 to 31/03/2014)

Total Action Budget: 120.450

Remaining Action Commitment: 120.450

Remark: first expenses will be done in the next weeks (the grant holder signed the contract mid April), so no expenses have been done so far.

Meetings

Meeting Type	Date	Place							Cost	Total
										0

STSM

Beneficiary	Date	Place							Cost	Total
										0

Workshops

Title	Date		Place						Cost	Total
	From	To	From	To						
										0

General Support Grants

Beneficiary	Date								Cost	Total
										0

Schools

Title	Date	Place							Cost	Total
										0

Dissemination

Title	Date	Place							Cost	Total
										0

Others

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Action Total : 0

II. Scientific Report

The Action started few months ago. The Grant Agreement has been received on April 11th. So far, we organized only web-based WG meetings to allow everybody to introduce him/herself to the community. The first activity (as preview in the budget) will be carried on May 30-31 with the TRUDEVICE workshop.

II.A. Innovative networking

- *Innovative knowledge resulting from COST networking through the Action. (Specific examples of Results vs. Objectives)*
- *Significant scientific breakthroughs as part of the COST Action. (Specific examples)*
- *Tangible medium term socio-economic impacts achieved or expected. (Specific examples)*
- *Spin off of new EC RTD Framework Programme proposals/projects. (List)*
- *Spin off of new National Programme proposals/projects. (List)*

Nothing to report so far.

II.B. Inter-disciplinary networking

- *Additional knowledge obtained from working with other disciplines within the COST framework. (Specific examples)*
- *Evaluation of whether the level of inter-disciplinarity is sufficient to potentially provide scientific impacts. (Specific examples)*
- *Evaluation of whether the level of inter-disciplinarity is sufficient to potentially provide socio-economic impacts. (Specific examples)*

Even though the Action just started, groups highly skilled in digital design and fault tolerance are exploiting new research path in collaboration with groups more specialized in mathematics (for instance the group of Osnat Karen in Israel).

II.C. New networking

- *Additional new members joining the Action during its life.*
- *Total number of individual participants involved in the Action work. (Number of participants. Give % of female and of Early Stage Researcher participants)*
- *Involvement of Early Stage Researchers in the Action, in particular with respect to STSMs, networking activities, and Training Schools. In addition, justification should be provided if less than 4 STSMs were carried out during the year.*
- *Involvement of researchers from outside of COST Countries. (Number of participants from non-COST Countries approved by the CSO. Give % of such participants from countries with reciprocal agreements. Specify their contribution)*
- *Advancement and promotion of scientific knowledge through publications and other outreach activities. (Number of publications and other outreach activities that resulted from COST networking through the Action. Complete list should be given in an annex)*
- *Activities and projects with COST network colleagues.*
- *The capacity of the Action members to raise research funds.*

The following activities have been carried out in these first months of the Action:

- Iliia Polian (Action Vice-Chair) presented an invited talk at the workshop WRTLTL'12 in Niigata (http://www.ieee-wrtl.org/2012/wrtl12_keynoteinvitedinfor.html#in1) titled: "TRUDEVICE: a COST Action in Europe" to present this Action. Moreover, he organized a special session on security during the VLSI Test Symposium, held in Berkeley (California, USA), on April 29th - May 2nd. The title of the session is "Counterfeit IC Identification: How can Test help?". This session focuses on 2 WGs of the Action (WG1 and WG2).
- A special session on "EU Project Information" is organized during the European Test Symposium. In this context, Giorgio Di Natale (Action Chair) will give a presentation on COST Actions in general and, in particular, on the Action IC1204 (the paper that will be included in the informal digest of the symposium is in annex under the name "Annex 1 - ETS Presentation").
- The 1st workshop will be organized on May 30-31. We expect between 40 and 50 attendees. The preliminary program is in annex under the name "Annex 2 - TRUDEVICE Workshop Program". The workshop attracted a substantial number of papers, including some outside the COST Action, and we hope to integrate new members into the Action
- The website of the Action is under construction (www.trudevice.com)
- STSMs have been promoted during the conference DATE (Design, Automation, Test in Europe). This conference has more than 800 attendees. The flyer we prepared for the STSM is in annex to this report ("Annex 3 - STSM Flyer")
- 2 STSMs are setting up

II.D. Self evaluation

- *Indicate in no more than 1 page what, in the opinion of the MC, were the main successes, drawbacks (if any) and the key difficulties encountered (if any).*

III. Previous scientific report(s)

- *Part II of past periods' reports are to be found here.*