

### **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.

<u>Confidentiality</u>: 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 **End date:** 11/12/2016

**Entry into force:** 12/12/2016 **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@lirmm.fr

### **Science Officer:**

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### **Action Web site:**

http://www.trudevice.com

### DC Rapporteur:

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#### **Administrative Officer:**

Mr Philippe Callens philippe.callens@cost.eu

### **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

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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

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### WG3: Fault attack detection and protection

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Bruno Rouzeyre LIRMM

Nicolas Sklavos TEIPAT Patras

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Zebo Peng U. Linköping

Osnat Keren Bar-Ilan Univ.

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Jean-Max Dutertre ENSMSE

Linus Feiten U. Freiburg

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Noemie Boher INP Grenoble, ST

### WG4: Reconfigurable devices for secure functions

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**Nele Mentens** 

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Lilian Bossuet

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Julien Francq

Guy Gogniat

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Francesco Regazzoni

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### WG5: Validation, Evaluation, and Fault Injection

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Bernd Becker

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### 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	Da	ate	Pla	ice			Cost	Total
	From	То	From	То				
								0

### **General Support Grants**

Beneficiary	Date				Cost	Total
						0

### **Schools**

Title	Date	Place				Cost	Total
							0

### Dissemination

Title	Date	Place				Cost	Total
							0

### Others

Action Total: 0



### II. Scientific Report

The Action started few months ago. The Grant Agreement has been received on April 11<sup>th</sup>. 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:

- Ilia Polian (Action Vice-Chair) presented an invited talk at the workshop WRTLT'12 in Niigata (http://www.ieee-wrtlt.org/2012/wrtlt12\_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 29<sup>th</sup> May 2<sup>nd</sup>. 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 1<sup>st</sup> 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.