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 WRLT’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](http://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

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<td>United Kingdom (13/06/2012)</td>
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**Intentions to accept:** no intentions to accept so far

**Other participants:** no other participants

**Chair:**
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**Science Officer:**
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**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
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**WG5: Validation, Evaluation, and Fault Injection**
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Lilian Bossuet
Zebo Peng
Bernd Becker
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<table>
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<tr>
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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.

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#### Others

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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:

- Ilia Polian (Action Vice-Chair) presented an invited talk at the workshop WRTLT’12 in Niigata (http://www.ieee-wrtlt.org/2012/wr1tlt12_keynoteinvitedinfon.html#1n1) 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.