TESCON: Interim Report (29 Jul 2018)

Carlos Molina–Jimenez[1]

Computer Laboratory, University of Cambridge,
`cm770@cam.ac.uk` `http://www.cl.cam.ac.uk/∼cm770`

TESCON(Tools for Enforcement of Smart Contracts) is a KTF granted to work with HAT Community Foundation (irene.ng@hatcommunity.org) with Jon Crowcroft (jac22@cam.ac.uk) as PI. It runs from Feb to Dec 2018.

Its technical aim is to integrate smart contracts software tools (CCC, EPRO MELA and possibly BPMNverifier) with blockchain. I have been timely documenting progress in the TESCON's web www.cl.cam.ac.uk/∼cm770/tescon/ tescon.html. This report is a summary of the TESCON's web page.

1 Implementation of prototypes and documentation

1. Architecture of the integration of the CCC and Ethereum has been designed and documented in the *On and off–blockchain Enforcement of Smart Contract* technical report— Accepted at FPDAPP 2018.
2. Linux scripts, python scripts and use case examples to enhance the functionality of the EPROMELA has been implemented and documented.
3. A preliminary architecture of the integration of the CCC and Ethereum has been implemented and documented in the *Implementation of smart contracts using on and off blockchain components (extended version)* technical report.

The software and documents are available from the TESCON's web page.

2 Presentations to industrial companies

I have presented my results to several companies in search of commercialization:

1. Camnexus (www.camnexus.co.uk): an SME aimed at the commercialization of emerging technologies.
2. A research delegation from the Chilean Club de Innovacion: (www.clubdeinno vacion.com/chile). Discussions with Rayen Salud (www.rayensalud.com)—a Chilean company from the IoT and health sector, are in progress.
3. Cleantech (www.cambridgecleantech.org.uk): a company from the environmentally friendly technology sector.
4. Legalese (legalese.com): the SME with links with the CodeX Center, Stanford University (law.stanford.edu/codex-the-stanford-center-for-legal-informatics/) that supported my KTS application with a letter. They collaborated with me in the technical report that documents the implementation of the integration architecture.

I have also presented the integration architecture at the Univ. of Central Asia. Presentations are available from the TESCON's web page.