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Large-Scale Experiments of IoT Security Trust

ARMOUR

The Internet of Things (IoT) is heading rapidly for large-scale, meaning that all mechanisms and features of the future IoT need to be especially designed and duly tested/certified for large-scale conditions. The inadequacies of Security, Privacy and Trust are critical elements that form obstacles to the deployment of IoT systems and to the broad adoption of IoT technologies. Suitable duly tested solutions are therefore needed to cope with security, privacy and trust in the large-scale IoT.

How does it work?

The ARMOUR project is aimed at providing duly tested, benchmarked and certified Security & Trust technological solutions for large-scale IoT using upgraded FIRE large-scale IoT/Cloud testbeds properly-equipped for Security & Trust experimentations. The upgrade to FIRE testbeds will use some European Iot Security & Trust testing solutions (available options include the RASEN toolbox, ETS Security TC, etc.), extending them as needed.

Key objectives

ARMOUR aims to:

- Enhance outstanding FIRE IoT/Cloud testbeds with the ARMOUR experimentation toolbox for enabling large-scale IoT Security & Trust experiments;
- Deliver a set of duly experimented and properly validated methods and technologies for enabling Security & Trust under large-scale IoT conditions; and
- Define frameworks to support the development of Secure & Trusted IoT applications and setting confidence on their deployment through benchmarking and a certification scheme.

How to get involved?

ARMOUR will make available the datasets and benchmarks resulting from the Security & Trust experiments on FIESTA-IoT. Moreover, the experimentation suite for large-scale IoT Security & Trust experiments developed in ARMOUR will be available to the public, being also provided an instance of the experimentation suite on 2 FIRE testbeds: FIESTA-IoT and IoT-LAB.

Project Facts

CALL: Collaborative Projects Call 2 - ICT12 | **EXECUTION:** From February 2016 to January 2018
COORDINATOR: Prof. Serge Fdida (Université Pierre et Marie Curie)
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