



## CNRS ACTION – GDR ASR Smart objects and Internet of Things



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**Keywords:** Trust platforms (contact/contactless smartcards), mobile telephony, TPM (Trusted Platform Module), RFID and NFC, TEE (Trusted Execution Environment), Security and privacy, Digital trust, Communicating objects.

### Technical and scientific positioning

With the emergence of new information, wireless communication and geolocation technologies, new innovative applications are designed moving towards the Internet of Things.

These objects have usually the following features: extremely constrained in terms of energy, computational power and memory, high mobility, sporadic connectivity, security constraints made necessary by the unreliability of their environment.

Objects must have some of the following properties: « Human-Centered Design », secure (traceability, data collection), trusted, Plug&Play, communicating, social and open.

#### Targeted hard/soft platforms

- Smartcard (with/without contact)
- Crypto-keys
- Sensors, RFID
- NFC chips
- TPM (Trusted Platform Module)
- TEE (Trusted Execution Environment)
- Mobile Trusted Modules for mobile phones

### Objectives

- Bring together communities working on this topic and communities from "smart card", network (RFID security) and Trust Computing (on objects and trust platforms)
- Develop and promote the activities of the community
- Organise scientific events
- Create a club of industrial partners strongly involved in conferences, trainings, project mounting...

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