

Identity in the SCS Cluster

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Identity: one of the 4 main axis in the SCS Cluster

- Applications are more and more :
 - Dematerialized
 - Mobiles
 - Multi-networks (RTC,ADSL,GSM,WIFI,WIMAX...)
 - Multi-devices (PC, mobile tel ,TV,Ipod....)
- There is a strong need for them to be based on Identification and authentication solutions :
 - Safe and reliable
 - Portable
 - Allowing a seam-less integration in existing IT infrastructures
- The SCS Cluster has all the competences and experience in this field to succeed :chips, portable objects , security, telecom, software .



The different IDENTITY themas

- 3 big sub-themas identified :
 - **“Physical” identification and d'authentication:**
access control to places, countries (Identity and citizen cards , e-passports, e-visas ...)
 - **“Logical” identification and authentication solutions :** secured accesses to Information Systems, services , in-line content ,DRM.....
 - Identificaton Solutions allowing **Payment** fonctions (banking, transport, closed user groups..).



Identity applications for a fast growing market

- Electronic Passports
 - 150 M€ in 2006 and 40 countries issuing
- Health Care Cards & Terminals
 - 200 M€ in 2008
- Security Software
 - 6 B€ in 2003
- Payment
 - 20% increase per year

Physical Identity

- **Main identified working axis :**
 - Fast contactless solutions for big data flow treatment (e-passport , Identity card ,car licence cards...)
 - Specific security aspects linked to contact-less technology (including private life protection)
 - Efficient integration of biometry technologies with portable objects, terminals, networks
 - Inter-country RF interoperability (passeport,visa...)
 - Fast and efficient data base management solutions in portable objects
 - Secured printing and assembly technologies
 - Big and efficient portable objects issuing and managing systems for government applications
 - Insure 5 to 10 years secured portable objects (5 à 10 ans)



Logical Identity

- Main identified working axis :
 - Seam-less integration of secured personal and portable objects in existing IT infrastructure , including Web architectures .
 - Internet “anti-phishing” solutions (home-banking, e-commerce ..)
 - Digital Rights protection (DRM)
 - Management of both Identity and anonymous .
 - Multi networks and multi devices Identity schemes
 - Secured portable objects integration in existing Identity schemes like INFOCARD (Vista Microsoft), Liberty alliance..
 - Portable objects integration in OTP solutions
 - “hand free” logical access control for a better ergonomoy



Already labelled projects

- **SECURE MEDIA SIM** : *multi DRM for GSM platforms.*
- **CALLISSON** : *new way of characterizing chip security.*
- **STAMTEL** : *Solution allowing dematerialisation of parking tickets and “Verbalisation”*
- **Video ID** : *Video-security linked with face and Iris biometry recognition*
- **TSC** : *Development of secured HW bricks for “secured calculation” in Open OS .*
- **SACOSE** : *Security aspects linked to the use of contact-less technologies .*
- **Smart on Smart** : *new audit system of hardware security of chips .*



incubating projects

- **INCA** : how to manage Identification while maintaining anonymous .
- **ACTIV** : ultra fast end to end solutions for big contactless access flow (E-passport , immigration cards, cars cards , Identity cards.)
- Hand free “logical acces control”
- Innovative GSM **antispam** project
- New **secured printing** technologies



- Of course we need :
 - SMEs working in that Identity field to participate with us to initiate or join new innovative projects
 - To strongly work with french and european clusters dealing with technology that would enable Identity solutions to emerge .

.....Thanks

