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Spin-off de Télécom ParisTech et Paris VI

ETHERTRUST développe des technologies basées sur l'identité numérique pour les mobiles et l'IoT.

- Identités basées sur la confiance : Certificats stockés dans des Secure Elements (Tamper Resistant)
- Protocoles TLS : Technologie EtherTrust TLS Stack (ETS) implémentée dans les Secure Elements et mettant en œuvre des mécanismes d'authentification mutuelle forte
 - Garantit les identités qui s'insèrent dans les puces, les objets eux-mêmes et les serveurs destinés à les reconnaître.
 - Mise en ligne de Secure Elements gérés par des Cloud de sécurité.



Secure
Mobile
Applications



Mobile
Payments



Access
Control



Internet
of Things



Cloud
Security





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Introducing EtherTrust

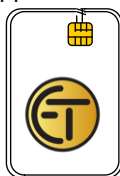
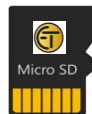
Technology



The EtherTrust TLS Stack (ETS) works with all the Secure Elements of the market.

It is involved in the following products :

- electronic identity (OPENID),
- payments,
- access control,
- Internet of Things ,
- Mobile Applications



NFC USB Token

Customers/Partners



NEOWAVE

implementa

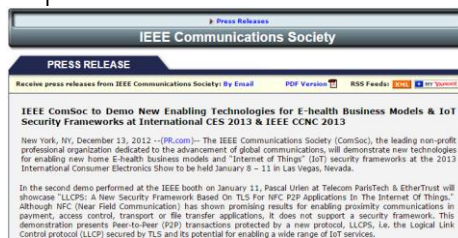
Demo and Press release...

- Awarded by the 11th national contest for the support of innovative start-ups (" 11ieme concours national d'aide à la création d'entreprises de technologies innovantes ") organized by the French ministry of research and universities
- Sesames 2008
- Finalist of the " Grand prix de l'innovation de la ville de Paris 2009"
- **Five patents in progress**
- **Normalization actions thanks to IETF drafts**
- **Participation to European projects & FUI**



CES 2015, Eureka Park, EtherTrust was one of 66 FrenchTech Startups

<https://www.youtube.com/watch?v=m6HKLEm72w>



Chicago, April 3, 2009, "New USB Key Uses Smart Card Technology for Faster, More Secure Website Login"
"Ethertrust offers a strong one-step authentication technology based on smart card technology (SIM, Java, etc.) and functional with all operating systems including Microsoft, Apple, and Linux. Based on SSL and on EAP standards (EAP-TLS, EAP-SIM, EAP-AKA), its products simplify and secure website identification..."



<http://www.ethertrust.com>

Contact: simon.elrharbi@ethertrust.com



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Backup



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Technology and Products

Basic Technology

Basic (patented) technology, the ETS application (Client and Server) for Secure Elements.

-20 KB memory footprint for TLS/DTLS client

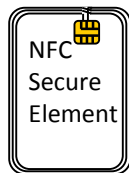
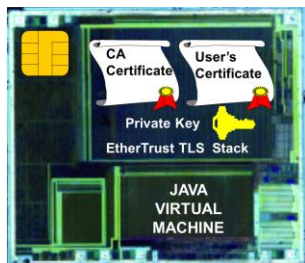
-30 KB memory footprint for TLS/DTLS client/server

Main benefits for customers

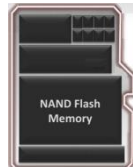
- Full TLS/DTLS protocol in a secure and low cost microcontroller

- **Identity** for device and objects

- **Strong mutual authentication**



SIM



SecureSD



NFC USB Token

NFC
Controller

OPENID Platform for Mobile Operators

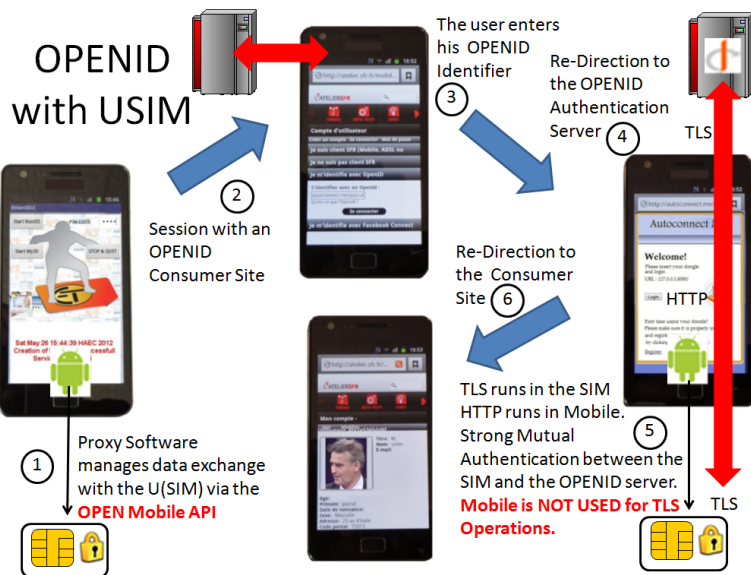
OPENID (patented) Platform designed for Safran Morpho, EtherTrust released the following components

- ETS for SIM

- ETS-API and application for Android

- OPENID server including Identity management for ETS

www.safran-group.com/fr/atom/4248



Compatible with 1 million eCommerce Service Providers

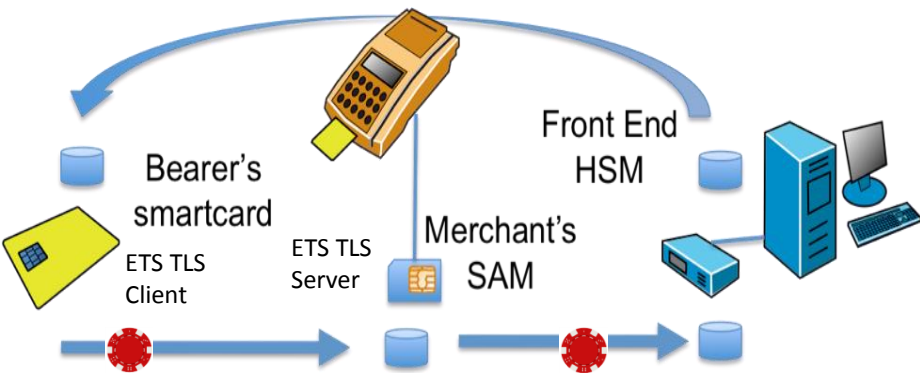


Prepaid Platform for Chèque Déjeuner

Dematerialization of restaurant vouchers

Client hold NFC cards, equipped with ETS

Merchant terminal (SAM) equipped with ETS



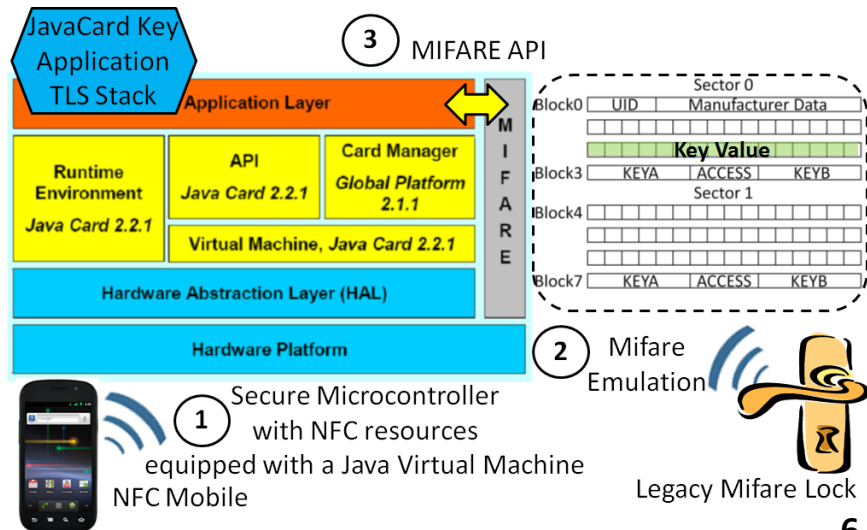
Electronic Key Distribution Platform for Ariane

Dual key NFC card interfaces (patented), including the ETS component and Mifare interface



Demonstrated at the CES 2012

<https://www.youtube.com/watch?v=imhrvYuoh4o>





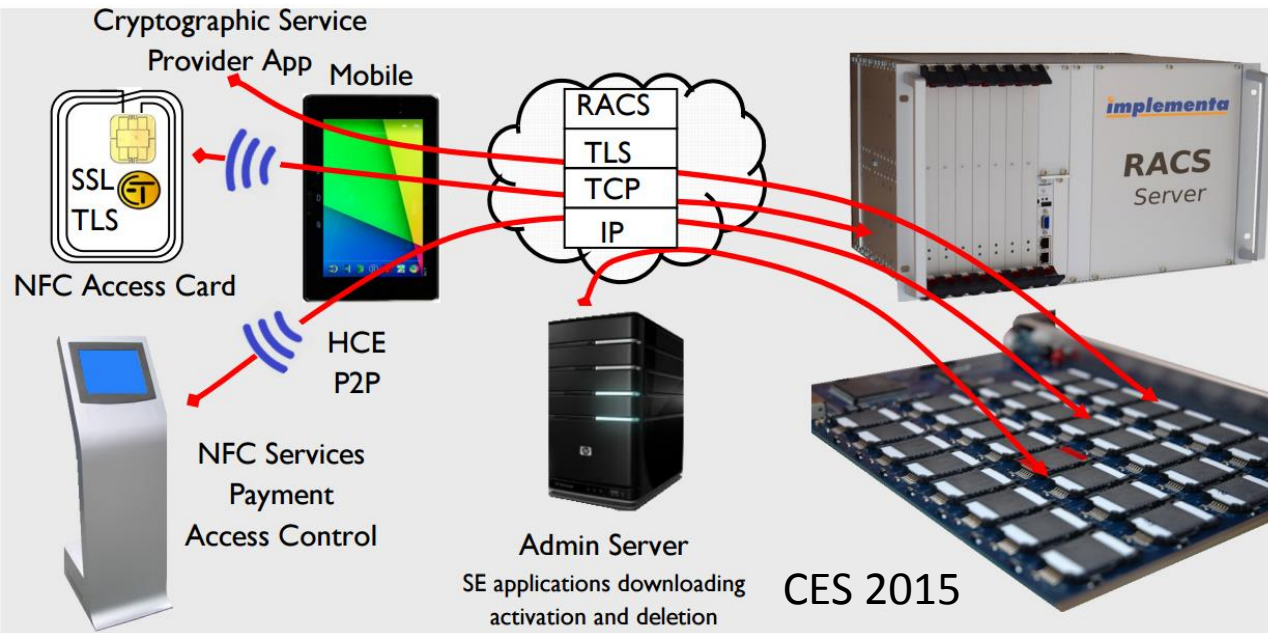
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CES 2015 Secure Elements in the Cloud

The *Liberate your Security!* Platform with Implementa

CES 2015

<https://www.youtube.com/watch?v=m6HkLEm72w>



CES 2015

EtherTrust "Liberate Your Security!" software platform facilitates the deployment and use of a Secure Element based infrastructure for such uses as securing online payment, remote access, cloud storage, and IoT.

To Providers of Payment Cards, Smart Card Authentication, and Cloud based HSM, EtherTrust patented "Liberate Your Security" platform offers:

- **End to End Development Platform**, with APIs for Secure Elements, POS Terminals, Devices, Server administration and life cycle management.

- **Comprehensive support**: EtherTrust supports most types of secure elements, devices (Android, Windows, POS terminals), and Windows and Linux Servers.

- **Strong end-to-end security**: Leverages Secure Elements and SSL/TLS protocol, eliminates risks associated with terminal vulnerabilities.

- **Industry Standards Compliant**: (GlobalPlatform, EMVco, HCE, SSL/TLS)

- **Open**: Server Management Middleware ⁷ is OpenSource.