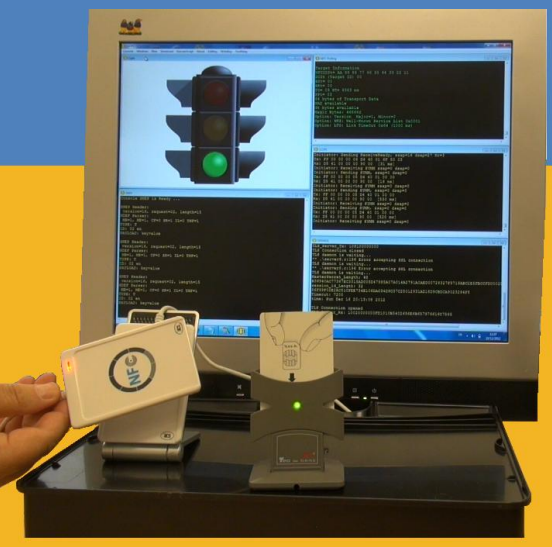
ETHER TRUST

Security for NFC and Internet of Things

LLCPS://



"Thanks to EtherTrust, I access all my Web sites in a faster and easier way than ever before. I'm sure my data are securely transmitted and now I can trust my Web services..."

Michel Ange, the Sixtine chapel

IETF Draft

tools.ietf.org/html/draft-urien-tls-llcp-00

You Tube

www.youtube.com/watch?v=CVWHI

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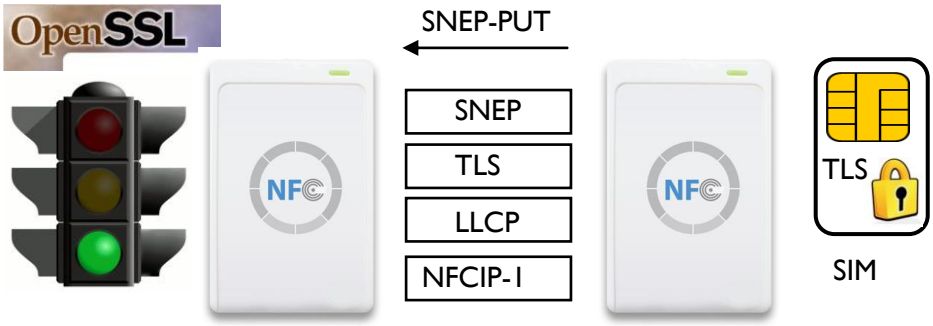
Use Case

The Near Field Communication (NFC), based on the 13,56 Mhz frequency, enables proximity applications working with distances ranging from one to ten centimeters (about one to four inches). This technology targets services dealing with payment, ticketing or access control. According to GOOGLE about ***one million*** of NFC compatible smartphones are sold every week.

Security for the Internet of Things (IoT)

Thanks to the NFC peer to peer (P2P) mode, mobiles may interacts with numerous devices like smartphones, kiosks, and locks, and exchange small pieces of information such as URLs, tickets or key values. All these emerging services belong to the foundation of the emerging Internet of Things ecosystem. Today Android mobiles, which represent 75% of the smartphone market, use "Android Beams", an application exchanging information over the SNEP NFC P2P protocol. LLCPS enforces the security of P2P transactions, by importing from the WEB the SSL/TLS protocol. LLCP stands for "Logical Link Control Protocol", it is the core of P2P transactions. So LLCPS creates secure NFC framework similar to HTTPS.



The demonstration shows a virtual lock running OPENSSL, and a SIM card running a TLS stack. A SNEP packet, embedding a key value is securely sent over a LLCPS session.

About EtherTrust

EtherTrust is a spin-off from Telecom ParisTech and the University of Paris VI. The company designs innovative and secure cloud architectures, whose trust is enforced by secure elements. EtherTrust platforms use the NFC technology in order to deploy innovative Internet of Things services for payment, access control and ticketing.

www.ethertrust.com