

Cooperating for success

The formation of Moversa will enable a globally scalable ecosystem of partners driving the adoption of contactless services and payment solutions and accelerate the rollout of NFC on a global level. Since its co-inventors, NXP and Sony, introduced the short-range wireless technology to the market in 2002, NFC has proven popular in numerous trials, opening up new opportunities for commercial mobile services around the world.

Moversa

Established in September 2007, Moversa is headquartered in Vienna, Austria, and led by president Guus Frericks of NXP and co-president Toshio Yoshihara of Sony.

More information: www.moversa.net

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The Future of Contactless

Moversa represents a major landmark in the evolution of universal contactless mobile services. By breaking down the boundaries among different contactless technologies, Moversa aims to create a world in which consumers can use secure seamless contactless solutions to easily access content and services anywhere, anytime and with any portable device.



A world in which consumers can easily access content and services anywhere, any time with any portable device using secure seamless contactless solutions

Formed by NXP and Sony, Moversa will drive global adoption of secure contactless smart card applications by developing a secure chip – a universal secure access module (U-SAM). The U-SAM will incorporate both MIFARE® and FeliCa™, two of the most widely installed contactless smart card technologies, as well as other operating systems.

Addressing the global market

To fulfill its potential, contactless technology must be SIMPLE, SECURE and UNIVERSAL.

Consumers can use richer and better services in a SIMPLE way. They will find it easier and more practical to use their portable devices for any type of contactless services, such as mobile payment, transport ticketing or content access. Additionally they will be able to use services even when traveling across different countries.

Service providers can offer SECURE scalable solutions, enabling stronger customer relationships and higher revenues. Mobile

phone operators, transportation network operators and credit card companies will be able to accelerate the rollout of advanced solutions to enhance consumer lifestyle.

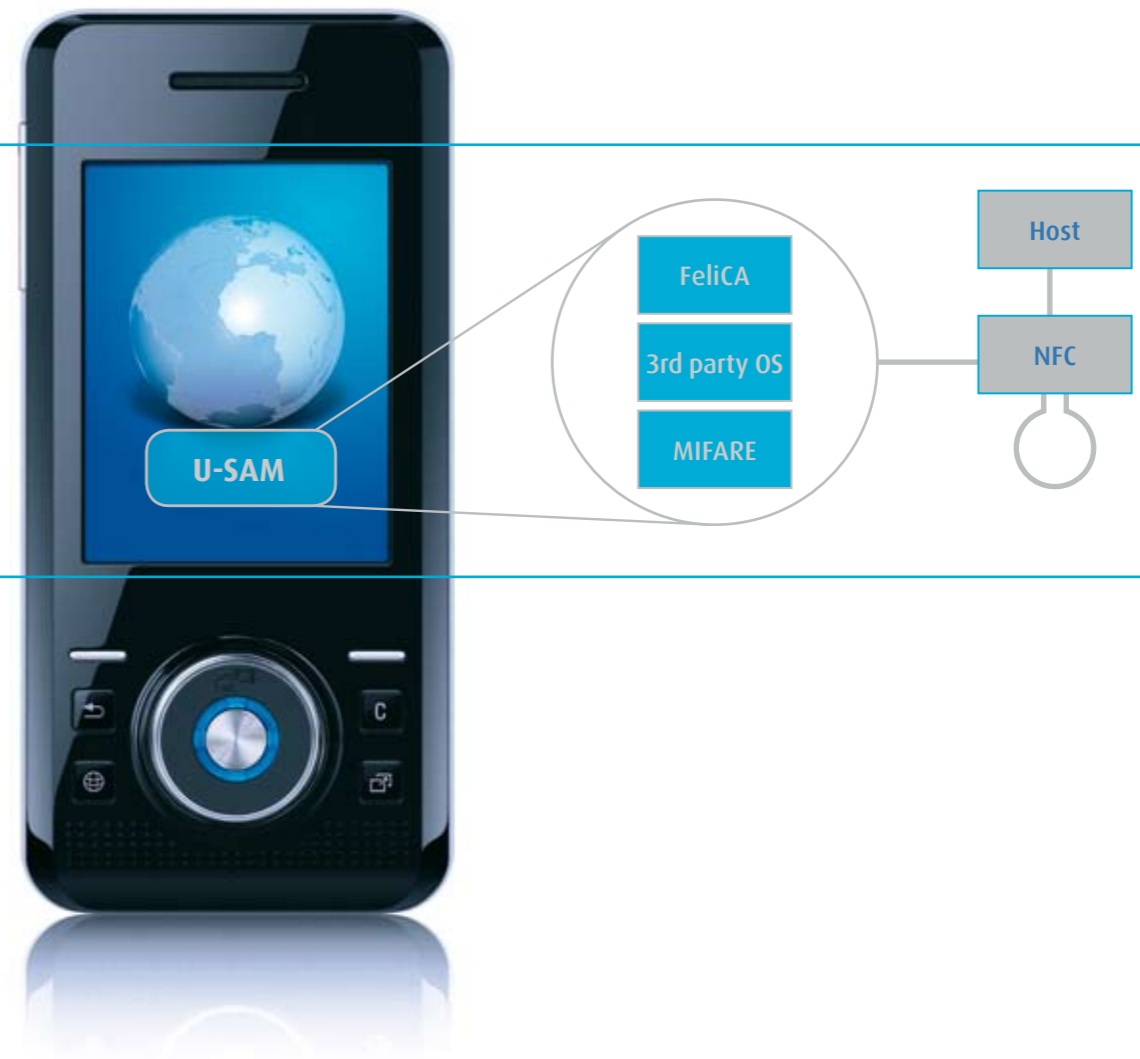
Portable device manufacturers will be able to design global products with UNIVERSAL capabilities and compatible with different contactless protocols and operating systems deployed around the world.

Universal Secure Access Module

The Universal Secure Access Module (U-SAM) is a new type of secure chip for portable devices, which supports both MIFARE and FeliCa as well as any third party operating

systems. The secure chip also delivers full flexibility to meet any specific customer requirements without compromising on performance and security. The U-SAM deploys the latest state-of-the-art technologies with respect to security, crypto coprocessors, power management, current consumption, process, packaging, interfaces and non-volatile memory.

The main benefit of the U-SAM is that it supports multiple contactless technologies on one single platform, giving the flexibility and scalability to develop applications independently from the underlying technology.



Cryptography

- DES/3DES (2 or 3 keys)
- AES (128, 192, or 256 bytes key length)
- RSA
- ECC
- MIFARE cryptoblock

Security

- Exception Sensors V, f, T, light
- Active shielding
- Memory Protection Unit
- True RNG according to FIPS 140-2
- EAL5+ certification

Interfaces

- ISO 7816 UART (incl. non-ISO 4 clks/etu)
- NFC-WI (ECMA-373 compliant)
- S²C
- SPI
- SWP (ETSI compliant)
- Local I/F

Simple, Secure, Universal