



Press release
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TIL TECHNOLOGIES showcased secure access control solution with NFC SIM smartphone at the MuCEM in Marseille

Internet connectivity and ease of use have made of the smartphones a must in our everyday life. One of the main challenges that smartphones supporting the NFC (Near Field Communication) technology face is adapting contactless features for payments, purchases and any other « in situ » data exchanges.

In terms of access control, NFC smartphones present unbeatable advantages. Comfortable to use and easier to keep next to the holder than traditional badges, the user needs one single support to keep all his access identifiers and useful applications together.

Last October in Marseille, TIL TECHNOLOGIES showcased for twenty local authorities and **for the first time on an installed site the use of the NFC technology for secure access control.**

This event took place at the MuCEM museum (« Musée des Civilisations de l'Europe et de la Méditerranée »), inaugurated last June in the context of Marseille Provence 2013, and equipped with the TIL TECHNOLOGIES solutions.

Initially installed for reading MIFARE badges, the on-site PROXILIS badge readers linked to the MICRO-SESAME centralized security system are now supporting secure reading via NFC SIM smartphones.



The principle is simple: The NFC SIM card in the telephone is emulated as a DESFIRE EV1 badge with file-based organization. In this way, the PROXILIS readers can use the same cryptography tools as a traditional badge, allowing the authentication of identifiers stored in protected files.

The new encoding module in the MICRO-SESAME software provides end-users (using multi-applicative, standardized professional cards ...) with total control over encryption keys and DESFIRE mapping for SIM cards.

This solution presents many advantages. This method presents a **higher level of security than using software applications stored on the telephone.** This method presents high availability, as it can be used even when the **telephone is turned off** and no GSM network is available.



The on-site MICRO-SESAME encoding module and PROXILIS readers, programmable and supporting multiple formats, provide the end-user with a vast flexibility for his security strategy:

- ▶ Mixing a population of users with a badge and/or a smartphone for access.
- ▶ Making the security level used in the installation evolve (from a simple serial number reading to secure reading).
- ▶ Adding or co-habiting with other embedded uses in the DESFIRE mapping, such as biometrics data, multi-applicative usage (canteen, etc.).
- ▶ Using one single system to manage both online and offline access rights.

As proof of flexibility, an offline mechatronic solution supported by TIL TECHNOLOGIES was successfully tested during the showcase at the MUCEM:

Access rights were directly encrypted to the SIM card by the MICRO-SESAME software.

The telephone was read in a transparent way by the offline cylinder used during the demonstration.

Online mode :



Offline mode :



About TIL TECHNOLOGIES

Specialized in electronic security for buildings and facilities, TIL TECHNOLOGIES designs, manufactures and commercializes software and hardware for access control, intrusion detection, video-monitoring and facilities management.

The TIL TECHNOLOGIES solutions have been implemented for many French companies (SNCF, LA POSTE, EDF, AXA, DCN...) as well as on different prestigious sites (The FIRST tower in La Défense in Paris, the "Stade Vélodrome" in Marseille, the palace of Versailles...)

Independent society in steady growth, the company counts 75 collaborators -mainly engineers, as well as technical and security experts-, all with a common company goal: Becoming the first French independent manufacturer in electronic security and leader in sustainable protection.