

## NFC (Near field communication)



### APPLICATIONS & USES

NFC (Near Field Communication) is a short-range wireless technology which enables data exchange between devices, whether contactless cards or cell phones, broadening and facilitating various forms of commercial transactions.

Applications and Uses:

- **Data reader** – on activation, the handset reads the data emitted by an RFID antenna, (in posters, promotional advertising, maximum distance 20cm).  
Transmission rate: 106 to 848 Kbits/s.
- **P2P Mode** – Two NFC handsets communicate with each other in two-way information exchange.
- **Payment** – Functioning as a debit or credit card.
- **Smart posters** – interacting with posters embedded with RFID tags, such as, for instance, purchasing tickets for the films on a poster.

### SECURE ELEMENT (SE)



The component in a mobile phone providing the security and confidentiality required to support various business models in this environment, is referred to as a Secure Element (SE).

As a neutral and cross-industry organization, GlobalPlatform intends to define and provide the specifications necessary to support three types of secure elements selected as options for NFC mobile. These are:

- Universal Integrated Circuit Card (UICC)
- Embedded Secure Element
- Secure Memory Card

