

NFC Technologies

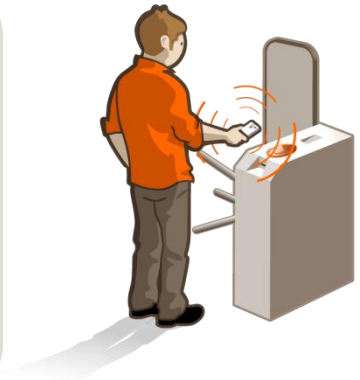
Learn how your mobile phone can become a powerful contactless tool



Mobile Contactless offers new opportunities to mobile operators, banks, transport companies and other service providers.

NFC requires co-operation between these different stakeholders, each with their own culture and expectations. They all have the same basic requirement - the need for **security** and confidentiality.

This training will help you to better understand the **NFC ecosystem** and solutions available for proper deployment.



At the end of the training you will

- > Have an overview of NFC (Near Field Communication) use cases, architectures, system requirements.
- > Learn the various contactless technologies (mifare, type A, type B, felica) and RFID (ISO 15693)
- > Have a clear vision of the security requirements
- > Understand the Over The Air personalization.
- > Understand the role of the TSM

Who should attend

Bank, Telecom, Transport, Service Provider staff:

- > Marketing Managers
- > Project Managers
- > Technical team just assigned to NFC and want an introduction

Pre-requisites:

- > This course requires participants to have a basic knowledge on telecommunications, banking or transport applications.

This course is held in English

Key topics

- > Contactless, Mifare
- > NFC (Near Field Communication)
- > OTA (Over The Air)
- > RFID
- > TSM (Trusted Service Manager)
- > Global platform 2.2
- > SCWS (Smart Card Web Server)
- > Standardization, NFC Forum
- > SWP



Day 1

Introduction to NFC

NFC use cases & overview of the current NFC pilots

- > Card emulation mode
- > Reader mode
- > P2P mode

Overview of the contactless market in transportation, payment, identity, access control

Contactless technologies

- > ISO 14443 type A, mifare®
- > ISO 14443 type B, B'
- > Felica

Possible architectures for Mobile contactless

- > Embedded secured element
- > SIM card
- > Removable secured element
- > Role of HCI (host controller interface) & SWP (Single Wire Protocol)

Multi application architecture

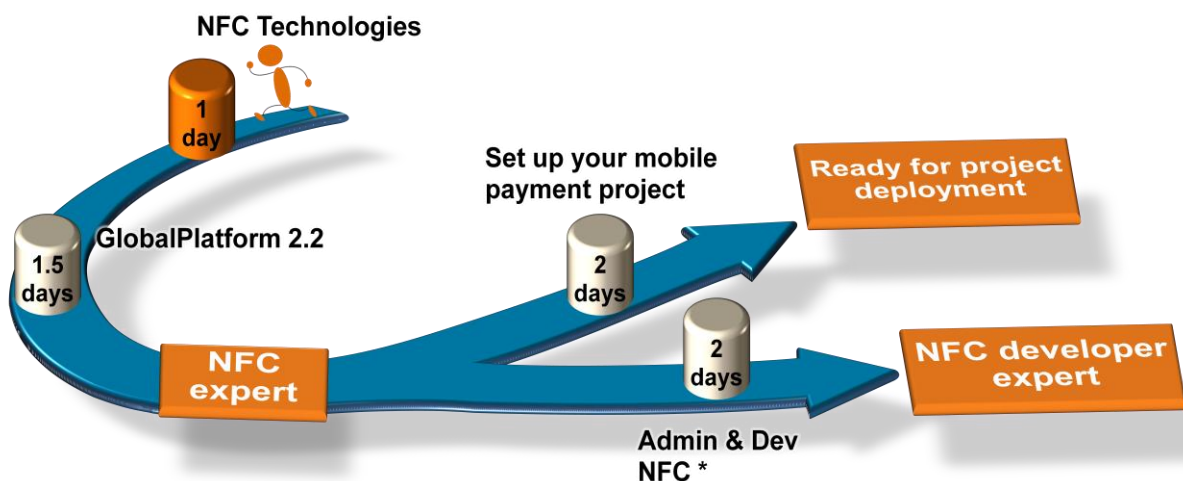
- > Global Platform
- > OTA management: requirements, challenges, roles and responsibilities
- > Role of the Trusted Service Manager

Security requirements

- > Transport
- > Payment
- > Other applications

Standardization status

- > NFC forum
- > ETSI
- > GP



* Pre-requisites: (U)SIM basics, Dev STK