

Course ID: M5

MIFARE in Mobile Training

This one day training presents different aspects and scenarios of MIFARE in Mobile. It gives a clear picture on full eco system and basic technologies. It includes practical application workshops.

Audience

- o MIFARE System designer
- o Technical managers and engineers
- o Application developers

Prerequisites

- o Participation of M1.1 and M1.2 training
- o **Basic** knowledge on GLOBALPLATFORM
- o Basic knowledge on NFC
- o Knowledge of basic cryptography e.g. TDES, AES, CMAC, CRC
- o Participants should bring his own android device (android version 4.1 or higher) for M-5.3 module.

Recommendations

At least a 'quick going through' of the documents provided at <http://mifare4mobile.org/> (the ones may be relevant to your role).

This course includes the MIFARE Workshop Package! (Details on page 16)

Duration:

09:00 – 17:00 (may be adapted to 08:00 – 16:00)

Dates:

<http://www.nxp.com/products/related/customer-training.html>

Course Contents

M-5.1 Introduction and Standards walk through

Introduction to MIFAREinMobile NFC and MIFARE
 Different modes of NFC
 Options for card emulation
 MIFARE4Mobile evolution and eco system
 Phone architecture and different components for MIFARE
 Different interfaces and communication layers
 GLOBALPLATFORM for MIFARE4Mobile

SW Installations and Introduction

MIFAREdiscover
 JCShell
 PN65T development board

M-5.2 MIFARE4Mobile

M4M 2.1 System architecture and components
 Remote provisioning and management
 Wallet management
 Multiple virtual cards
 Use cases and scenarios

Workshop:

MIFARE4Mobile Remote provisioning and demo application
 Virtual cards and real card
 Interoperability and certification
 Legacy systems and considerations.
 Product Support Package for MIFARE4Mobile

M-5.3 MIFARE SDK

Basic Android programming
 MIFARE SDK architecture and features

SW Installation

Android SDK
 MIFARE SDK
 Eclipse

Workshop:

Setting-up development environment
 Apps development using MIFARE SDK
 Product Support Package for MIFARE SDK