

Course ID: M2

MIFARE Plus Training

This one day training presents the technical detail of MIFARE Plus with the hints for optimum usages. It includes practical workshop sessions and application specific hands-on.

Audience

- MIFARE System designer
- MIFARE solution developers

Prerequisites

- Knowledge of M1.1 and M1.2
- Watching MIFARE Plus Introduction video from www.mifare.net
- Knowledge of basic cryptography e.g. TDES, AES, CMAC, CRC

Recommendations

At least a 'quick going through' of MIFARE Plus data sheet

Course Contents

MIFARE Plus Introduction

MIFARE Plus evolutions and positioning
 MIFARE Plus implementation on SmartMX2 and licensing
 MIFARE Plus and convergence
 MIFARE Plus Support Package and ordering information

Software and Hardware Installation

Pegoda (RD710), MIFAREdiscover,

MIFARE Plus Architecture

Communication protocol
 Memory mapping 1KB, 2KB and 4KB
 Security Level concept

MIFARE Plus Security Level 0 (SL0)

MIFARE Plus SL0 functionalities
Workshop: Pre-personalization at MIFARE Plus SL0

MIFARE Plus Security Level 1 (SL1)

Compatibility to MIFARE Classic 1K/4K
 Additional security and commands
Workshop: switching to MIFARE Plus SL2 or SL3

MIFARE Plus Security Level 2 (SL2) AES

and secure use of MIFARE Crypto
 Additional security and commands
 Workshop: switching to MIFARE Plus in SL3

MIFARE Plus Security Level 3 (SL3)

MIFARE Plus SL3 functionalities
 MIFARE Plus SL3 secure protocols and options
Workshop: MIFARE Plus SL3
 Optimization of security and transaction in SL3
 Example migration (MIFARE Classic to MIFARE Plus SL3) scenario

Additional Features in MIFARE Plus

Originality check
 Virtual Card Architecture
 Proximity Check
 Introduction to MIFARE SAM AV2 for MIFARE Plus

This course includes the MIFARE WorkshopPackage!

Duration:
 09:00 – 17:00

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