



# NXP MIFARE software development kit for Android application developers

## MIFARE SDK for Android

Supporting the complete portfolio of MIFARE, ICODE, and NTAG products, the MIFARE SDK is an extensive software development tool that lets Android application developers create state-of-the-art contactless applications on any NFC-enabled devices, including smartphones, for use with any ecosystem of MIFARE, ICODE or NTAG infrastructure worldwide.

### KEY APPLICATIONS

- ▶ Smartcard-enabled Android applications
- ▶ Access management
- ▶ Closed-loop micropayment
- ▶ Campus and student cards
- ▶ Loyalty programs, couponing and gift card applications
- ▶ Gaming
- ▶ Libraries
- ▶ Smart homes
- ▶ Customer interaction
- ▶ Smart media

### KEY FEATURES

- ▶ Supports all MIFARE commands
- ▶ Supports all NTAG commands
- ▶ Supports parts of the ICODE commands
- ▶ Software and hardware keystore
- ▶ Easy development of contactless applications on any NFC-enabled device
- ▶ Pre-configured high-level functions for straightforward application development

- ▶ Example source code and documentation
- ▶ Installation manual and quick-start guide
- ▶ SAM AV2 support with USB or BT reader (Advanced version)

### Innovation in contactless application development

The MIFARE SDK provides the Android community with an enhanced experience for the development of contactless applications that use any type of MIFARE, ICODE or NTAG hardware.

### Security with simplicity

Beside a software keystore the MIFARE SDK supports also a hardware keystore with NXP's SAM AV2 and an external reader. A feature that provides simple storage of application keys, where a higher security level is needed. To make it simple the APIs for the hardware keystore are similar to those used with the software keystore.

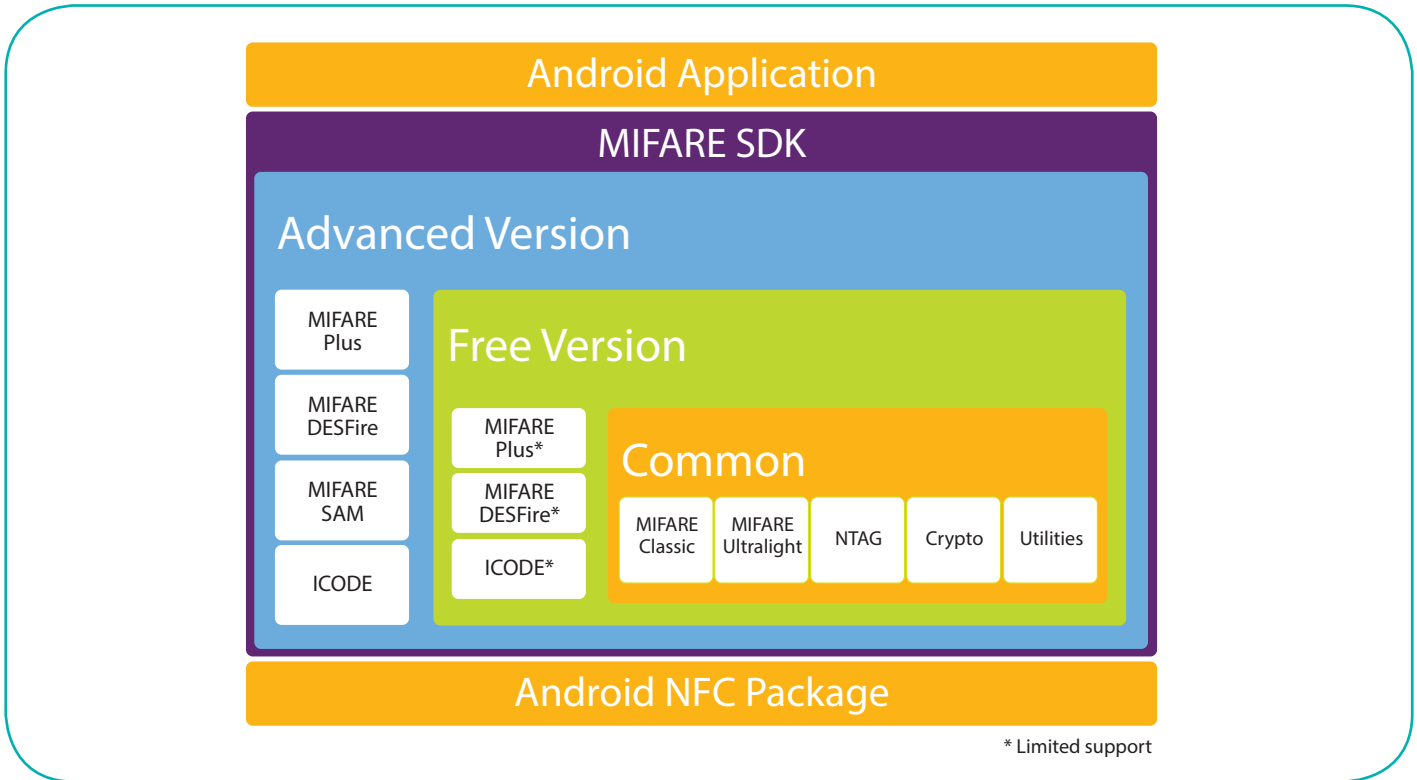


## Free & Advanced Versions

The free version of the MIFARE SDK, which can be used with most MIFARE cards, provides a subset of features for quick, easy development of lightweight applications.

The advanced version of the SDK includes the complete command set, supporting advanced features on every card architecture and enables fast development of complex applications.

## SDK Overview



## MIFARE SDK Content

- ▶ Android Java library
- ▶ User manual – Getting started guide
- ▶ Library documentation
- ▶ Sample application with source code

## About MIFARE

MIFARE is NXP's well-known brand for a wide range of contactless IC products used in more than 40 different applications worldwide. With more than 150 million reader core components and five billion smartcard ICs sold, MIFARE products are proven and reliable more than any other interface

technology in the market. MIFARE products comply with the international standard ISO/IEC 14443 and are backward-compatible within the product families. This ensures that the existing infrastructure can be smoothly upgraded to higher security and feature levels, such as payment systems, ticketing solutions, loyalty programs, access management, and parking. To further extend the reach of MIFARE products, the MIFARE4Mobile Industry Group brings MIFARE applications into NFC-enabled mobile devices.

