Please send an email to automotive_nfc@nxp.com to request an activation code. After successful registration at nxp.com, you can download the evaluation version, which is valid for 3 months. For production, you have to purchase the NFC parts including the respective license rights.

The Automotive NFC Reader Library is a feature complete and NFC Forum compliant software stack for Automotive NFC front-end ICs. This multi-layer library, written in C, makes it easy to develop Automotive NFC applications like NFC-enabled door handles or NFC-enabled-in-car readers. Its unique features include asynchronous (non-blocking) API and extended error handling. The MISRA-C compliance, extended automotive application testing and Flash and RAM memory reports are provided along with the core library. The software is designed to allow easy porting to different microcontrollers.
aNFC Reader Library Layer Model Block Diagram

Demo Apps

AL (Application Layer)

- MIFARE Classic
- MIFARE Ultralight EV1
- MIFARE DESFire EVx
- MIFARE DESFire EVx
- MIFARE DESFire EVx
- FeliCa Cmd set
- ICODE Cmd set (Type V)
- NFC Activity
- Discovery Loop
- HCE Layer

PAL (Protocol Abstraction Layer) — Action and Exchange

- ISO/IEC 14443-3A
- ISO/IEC 14443-3B
- ISO/IEC 14443-4A
- ISO/IEC 14443-4 (ISO-DEP)
- ISO/IEC 14443-4
- MIFARE
- FeliCa (Type F)
- ISO/IEC 15963 (Type V)

DAL (Driver Abstraction Layer)

- BAL (Bus Abstraction Layer) SPI Interfaces
- Timer Abstraction Layer Interface
- ARM Native Functions OSAL Support

Common (Layer Independent)

- CID
- Key Store
- CryptoRng
- CryptoSym
- VCA
- Multis
- Loop

Host MCU

aNFC Reader Library

e.g. S32K3xx

NFC Frontend e.g. NCx3320/21

NFC Antenna

Contactless Object
View additional information for aNFC Reader Library: Software Library for Automotive NFC Front-End ICs.

Note: The information on this document is subject to change without notice.

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