

# Release Note – NFC Cube

---

17 November 2016

## Document information

Info	Content
Keywords	Release note, NFC Cube
Abstract	This document lists update of the NFC Cube FW 3.3, the known limitations and issues.

---



## 1. Document purpose

---

This document presents the updated features, known limitation and issues of the NFC Cube firmware version 3.3

## 2. Modification information

---

### 2.1 NFC Tag support

The NFC cube supports T4T and T5T as defined in the NFC forum

### 2.2 T4T support in the access demo

DESFire cards configured as Access card can be used for the Access demonstration

### 2.3 Contact card support

The NFC cube supports the T=0 and T=1 cards.

### 2.4 e-Passport reading

The NFC Cube can be used with any CCID PC software to read e-passports

### 3. Possible problems, known errors and restrictions

Use case	Description	Workaround
Cards support	Non NFC and non ISO cards are not supported	The demo is only for NFC and ISO 14443, ISO 15693 compliant tags
NTAG I2C <i>plus</i>	When presenting just the antenna with the NTAG I2C chip exactly on the top of the antenna, the close coupling created	Present the NTAG I2C plus antenna with a distance of 5 mm or more.
<i>CCID reader, Golden Reader tool and Type B cards</i>	Using the cube with the passport golden reader tool doesn't work properly	Supported with FW 3.3
<i>T1T and Type B</i>	Once an NFC T1T tag is presented,	Reset the cube after reading NFC T1T, if reading Type B card is needed.
<i>T1T – LCD screen</i>	On some NFC T1T, the LCD screen might need up to 5s to refresh.	Linked to NFC Standard time out. Wait 5s before presenting the next card or device to the NFC Cube
<i>Type B – LCD screen</i>	On some Type B (T Money for example), the LCD screen might need up to 5s to refresh	Wait 5s before presenting the next card or device to the NFC Cube
<i>NEXUS 5 reconnection sound</i>	The communication between the phone and the cube is sometime lost, and the phone detects again the phone (small music)	No workaround. The demonstration can be done as with any phone, just some sound will be heard from time to time.
<i>NDEF message size limitation</i>	The cube can only read NDEF message up to 400 bytes.	No Workaround.

### 4. Referenced documents

Table 1: Referenced documents

Doc ID	Doc Title	Version	Author	Issue Date
N/A	NFC Cube user Manual	1,7	Joris Jourdain	Nov 2016

## 5. Disclaimer

---

The ICs provided are engineering samples. NXP Semiconductors reserves the right to make changes on materials, dimensions or any specification without notice.

CUSTOMER acknowledges that the Products are of pre-production quality, have not been fully tested and may contain defects. CUSTOMER further acknowledges that NXP has no support or maintenance obligation for the Products hereunder.

NXP PROVIDES THE PRODUCTS "AS-IS" AND WITHOUT WARRANTY OF ANY KIND, WHETHER EXPRESS, IMPLIED OR STATUTORY. NXP SPECIFICALLY EXCLUDES AND DISCLAIMS ANY WARRANTY OF MERCHANTABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTY THAT THE PRODUCTS OR ANY PART THEREOF, OR THE USE OF THE PRODUCTS DOES NOT OR WILL NOT INFRINGE ANY INTELLECTUAL PROPERTY RIGHT OF ANY THIRD PARTY. NXP FURTHER DOES NOT WARRANT IN ANY WAY THAT IT WILL COMMERCIALY RELEASE ANY PRODUCT.

CUSTOMER receives no rights to, and shall not create nor attempt to create by reverse engineering, reverse assembly, reverse compiling or otherwise, any part of the Product or permit any third party to do so. CUSTOMER shall take all reasonable steps to ensure that no unauthorized person shall have access to any Product or part thereof.

CUSTOMER shall have the sole responsibility for adequate protection of its data used in connection with the Products. IN NO EVENT WILL NXP BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER ARISING OUT OF OR IN ANY WAY RELATING TO THIS AGREEMENT, ANY PRODUCT OR PART THEREOF, INCLUDING, WITHOUT LIMITATION, ANY LOSS OF USE, DATA OR PROFITS, RERUN TIME, INACCURATE INPUT OR OUTPUT, WORK DELAYS OR ANY DIRECT OR INDIRECT PROPERTY DAMAGE, AND WHETHER IN AN ACTION IN CONTRACT, WARRANTY, TORT, INCLUDING NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE OR IF SUCH DAMAGE COULD HAVE BEEN REASONABLY FORESEEN.