

uFR NDEF

Version 1.1

Windows link: https://www.d-logic.net/code/nfc-rfid-reader-sdk/ufr-ndef-examples-c_sharp.git

MacOS link: https://www.d-logic.net/code/nfc-rfid-reader-sdk/ufr-ndef-examples-objective_c-gui.git

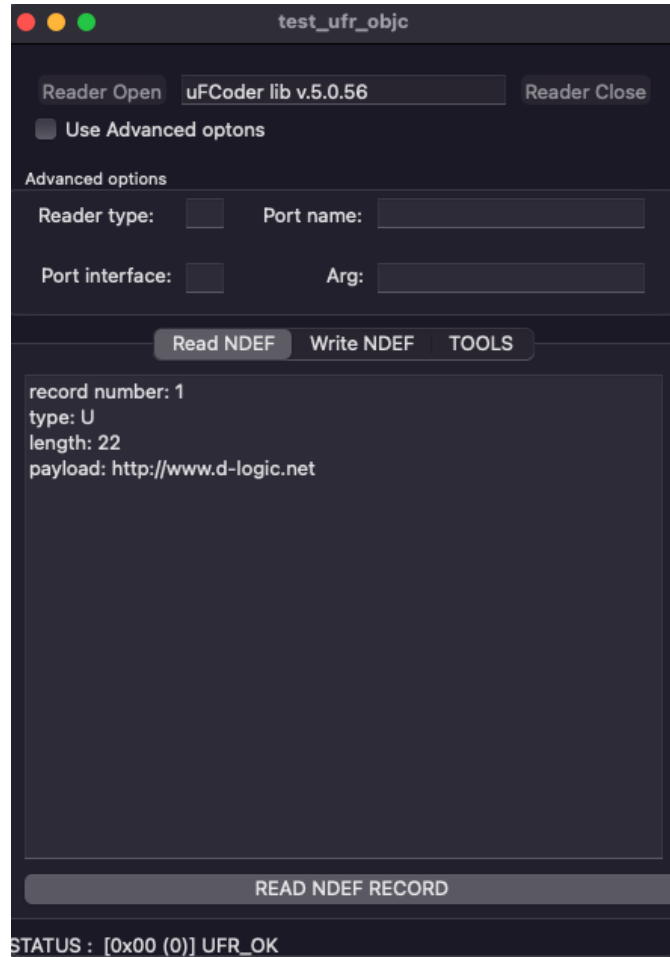
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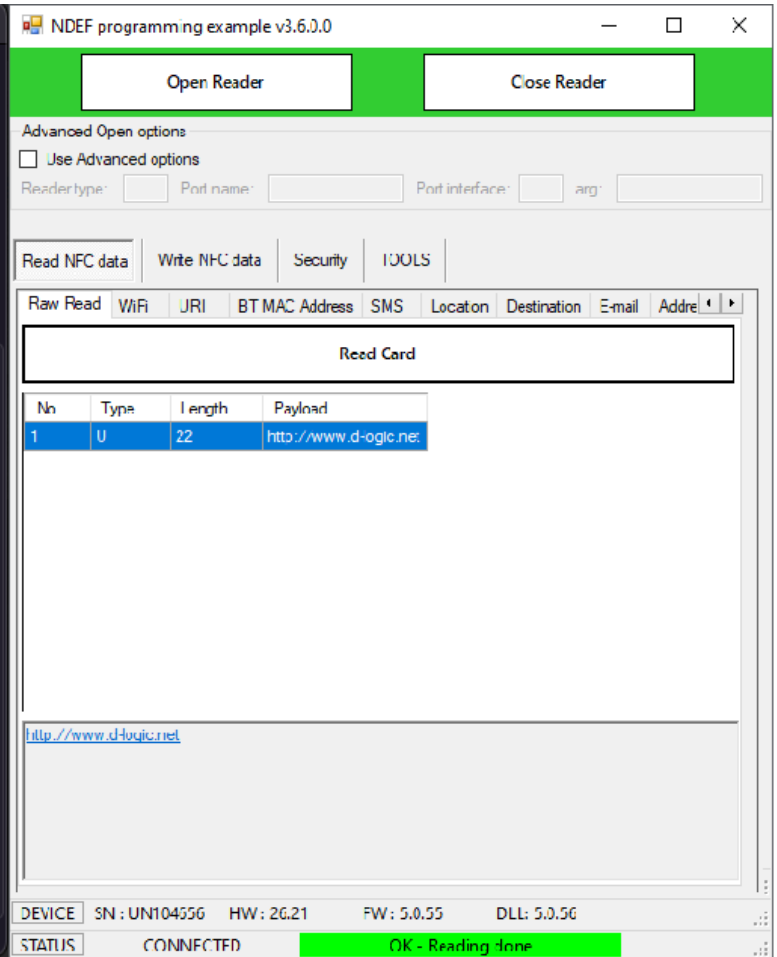
Read NDEF

Click on 'ReaderOpen' button and then click 'Read' button ('READ NDEF RECORD' - MacOS or 'Read Card' - Windows)

MacOS



Windows

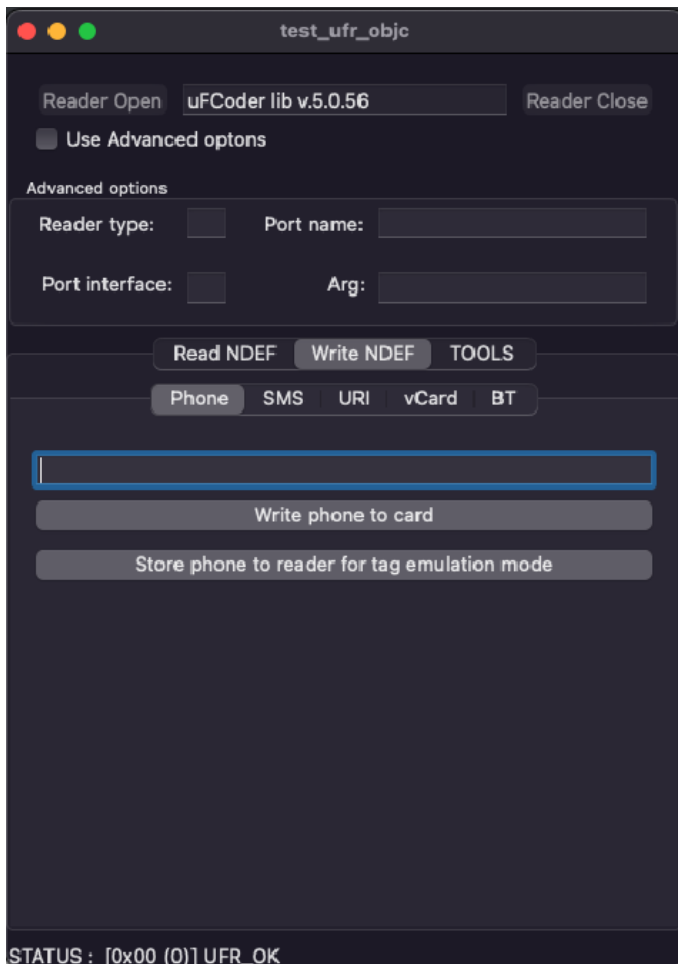


Always check status at the bottom left corner, if your status is UFR_OK, everything is fine, otherwise an error occurred which can be identified depending on the error code that is the return value.

Write phone number

Simply type in the phone number and click the button to store it into the card or into the reader (tag emulation mode).

MacOS



test_ufr_objc

Reader Open uFCoder lib v.5.0.56 Reader Close

☐ Use Advanced options

Advanced options

Reader type: Port name:

Port interface: Arg:

Read NDEF Write NDEF TOOLS

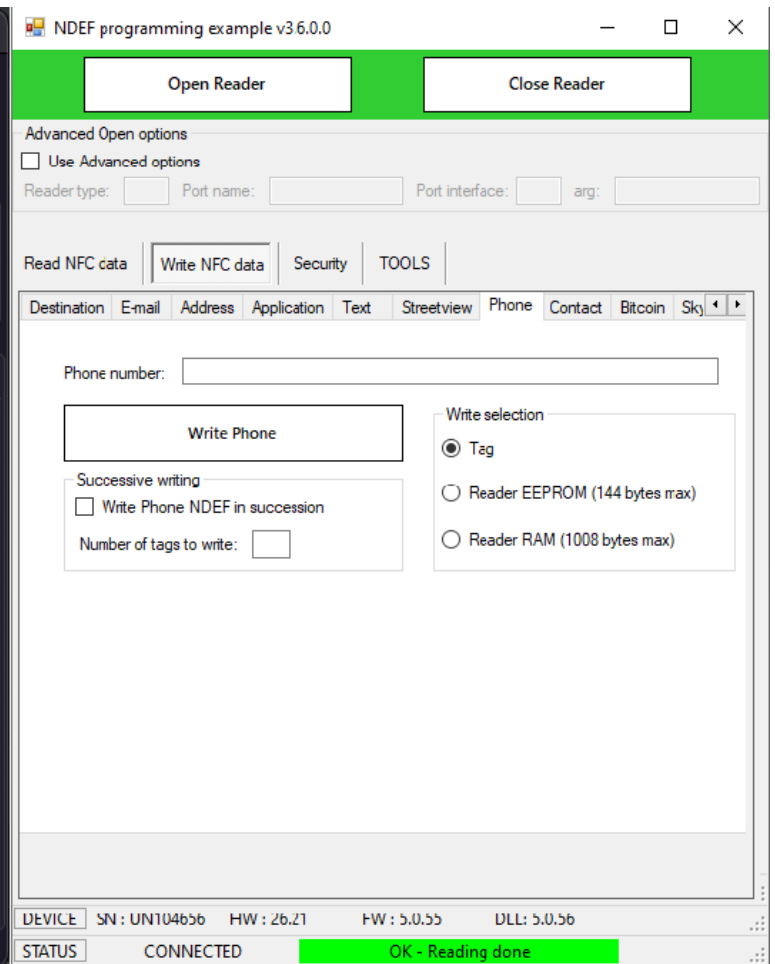
Phone SMS URI vCard BT

Write phone to card

Store phone to reader for tag emulation mode

STATUS : [0x00 (0)] UFR_OK

Windows



NDEF programming example v3.6.0.0

Open Reader Close Reader

Advanced Open options

☐ Use Advanced options

Reader type: Port name: Port interface: arg:

Read NFC data Write NFC data Security TOOLS

Destination E-mail Address Application Text Streetview Phone Contact Bitcoin Sky

Phone number:

Write Phone

Successive writing

☐ Write Phone NDEF in succession

Number of tags to write:

Write selection

☒ Tag

☐ Reader EEPROM (144 bytes max)

☐ Reader RAM (1008 bytes max)

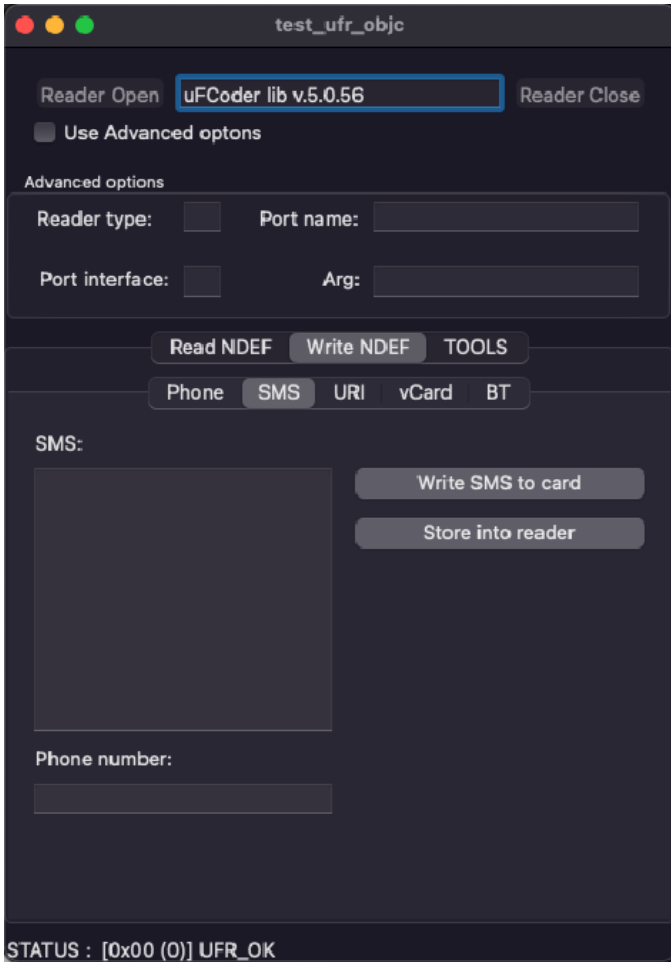
DEVICE SN : UN104656 HW : 26.21 FW : 5.0.55 DLL : 5.0.56

STATUS CONNECTED OK - Reading done

Write SMS

Type in the message you want to store and the phone number it is addressed to, and then click the button to store the message and number into the card or into the reader (tag emulation mode).

MacOS



test_ufr_objc

Reader Open **uFCode lib v.5.0.56** Reader Close

☐ Use Advanced options

Advanced options

Reader type: Port name:

Port interface: Arg:

Read NDEF Write NDEF TOOLS

Phone SMS URI vCard BT

SMS:

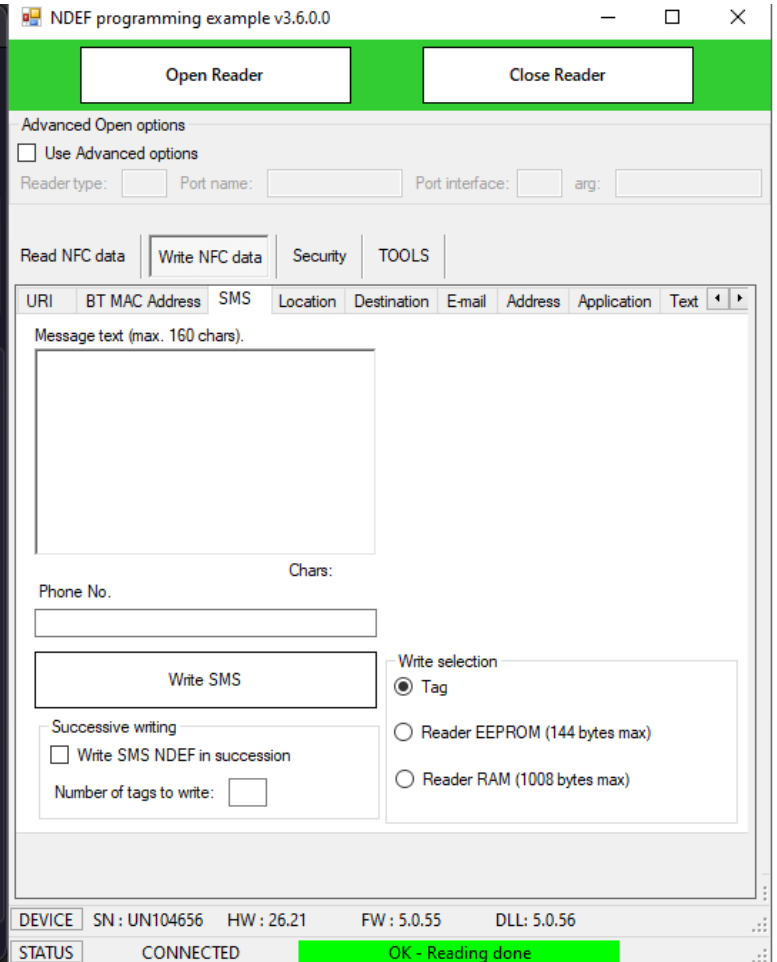
Write SMS to card

Store into reader

Phone number:

STATUS : [0x00 (0)] UFR_OK

Windows



NDEF programming example v3.6.0.0

Open Reader Close Reader

Advanced Open options

☐ Use Advanced options

Reader type: Port name: Port interface: arg:

Read NFC data Write NFC data Security TOOLS

URI BT MAC Address SMS Location Destination E-mail Address Application Text

Message text (max. 160 chars).

Chars:

Phone No.

Write SMS

Write selection

☒ Tag

☐ Reader EEPROM (144 bytes max)

☐ Reader RAM (1008 bytes max)

Successive writing

☐ Write SMS NDEF in succession

Number of tags to write:

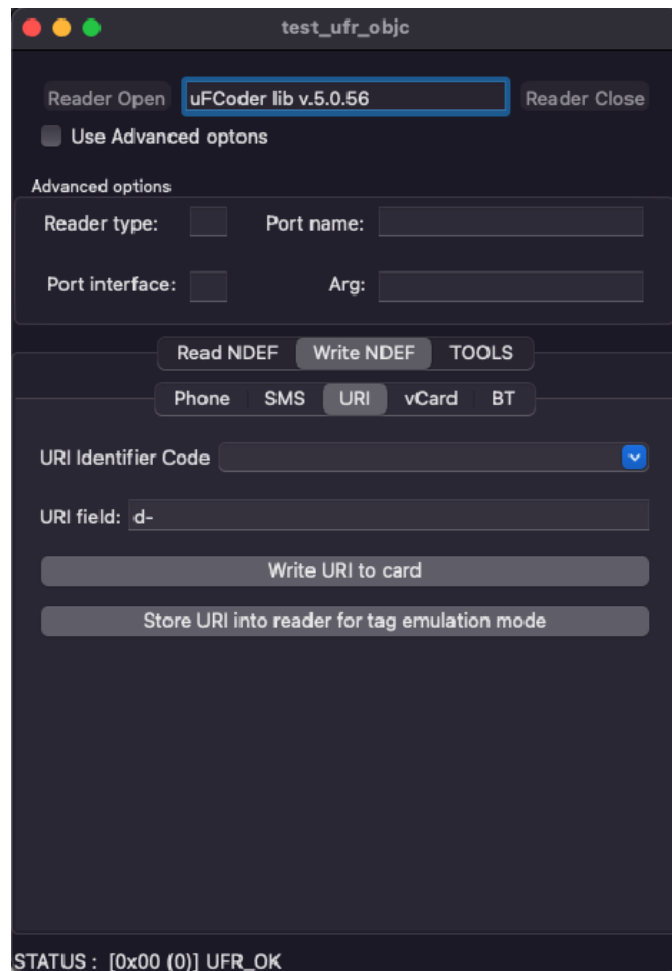
DEVICE SN : UN104656 HW : 26.21 FW : 5.0.55 DLL : 5.0.56

STATUS CONNECTED OK - Reading done

Write URI

To write URI, choose URI Identifier Code from the drop-down list and then type your URI field. After you finish, click the button to store the URI to the card or into the reader (tag emulation mode).

MacOS



test_ufr_objc

Reader Open **uFCoder lib v.5.0.56** Reader Close

☐ Use Advanced options

Advanced options:

Reader type: Port name:

Port interface: Arg:

Read NDEF Write NDEF TOOLS

Phone SMS **URI** vCard BT

URI Identifier Code

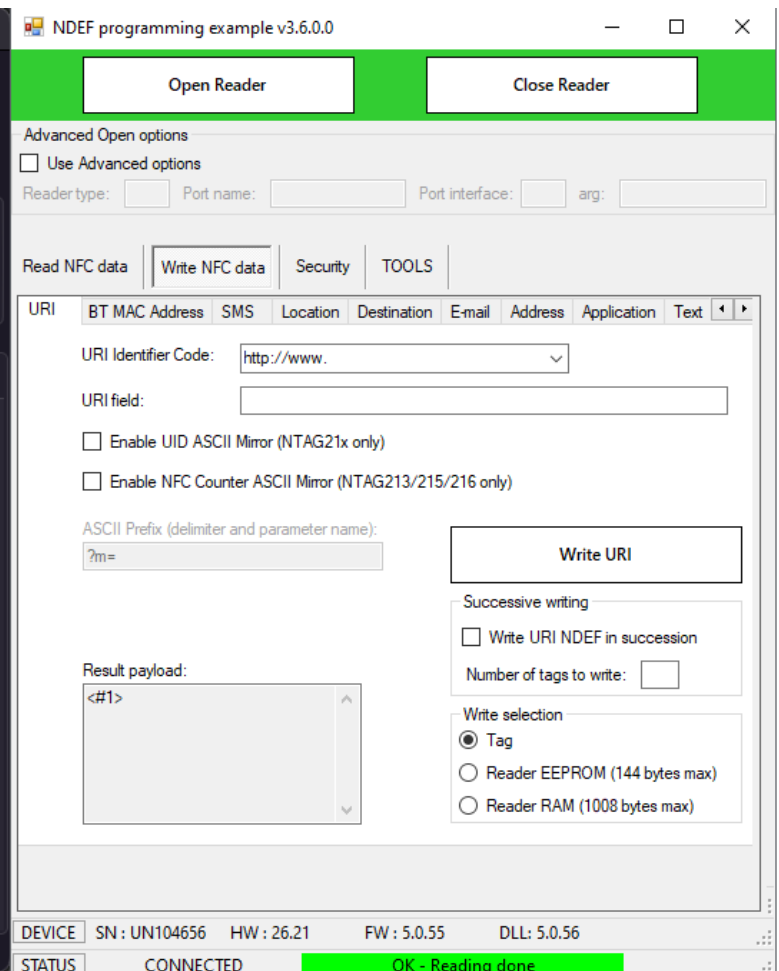
URI field: d-

Write URI to card

Store URI into reader for tag emulation mode

STATUS : [0x00 (0)] UFR_OK

Windows



NDEF programming example v3.6.0.0

Open Reader Close Reader

Advanced Open options

☐ Use Advanced options

Reader type: Port name: Port interface: arg:

Read NFC data Write NFC data Security TOOLS

URI BT MAC Address SMS Location Destination E-mail Address Application Text

URI Identifier Code: http://www.

URI field:

☐ Enable UID ASCII Mirror (NTAG21x only)

☐ Enable NFC Counter ASCII Mirror (NTAG213/215/216 only)

ASCII Prefix (delimiter and parameter name): ?m=

Write URI

Successive writing

☐ Write URI NDEF in succession

Number of tags to write:

Write selection

☒ Tag

☐ Reader EEPROM (144 bytes max)

☐ Reader RAM (1008 bytes max)

Result payload: <#1>

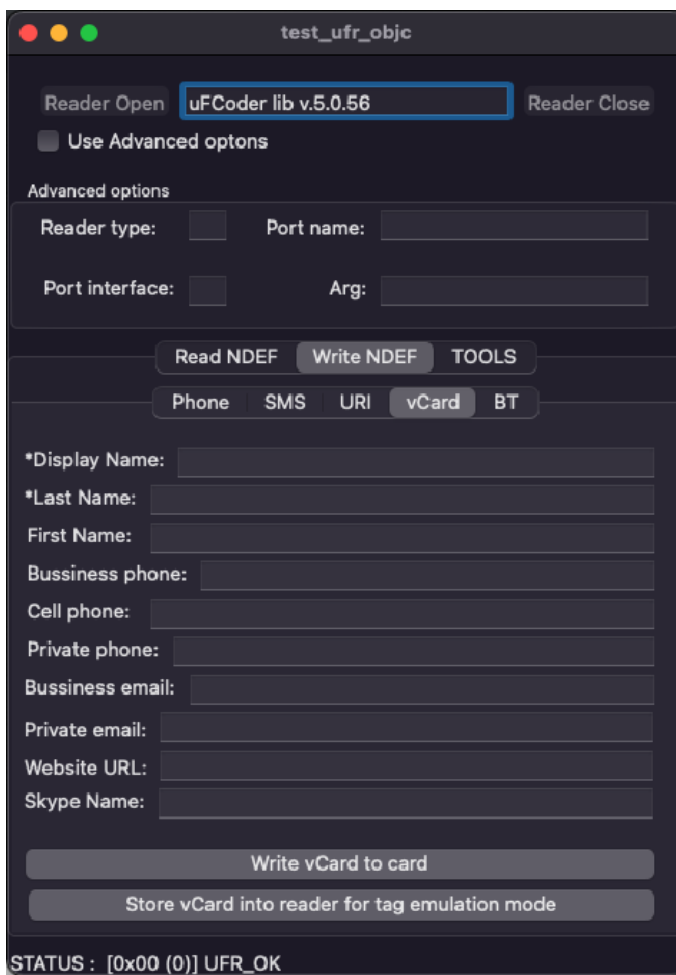
DEVICE SN : UN104656 HW : 26.21 FW : 5.0.55 DLL : 5.0.56

STATUS CONNECTED OK - Reading done

Write vCard

Fill all data you want to store for vCard and click button to write it into card or into reader (tag emulation mode).

MacOS



test_ufr_objc

Reader Open **uFCoder lib v.5.0.56** Reader Close

☐ Use Advanced options

Advanced options

Reader type: Port name:

Port interface: Arg:

Read NDEF Write NDEF TOOLS

Phone SMS URI **vCard** BT

*Display Name:

*Last Name:

First Name:

Business phone:

Cell phone:

Private phone:

Business email:

Private email:

Website URL:

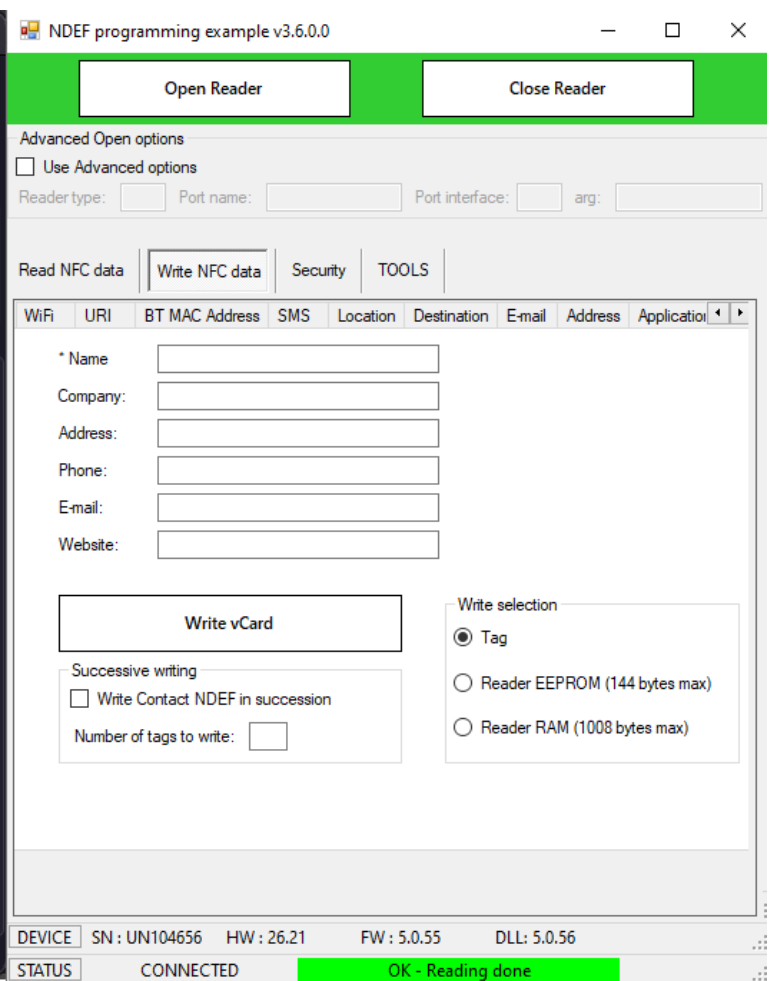
Skype Name:

Write vCard to card

Store vCard into reader for tag emulation mode

STATUS : [0x00 (0)] UFR_OK

Windows



NDEF programming example v3.6.0.0

Open Reader Close Reader

Advanced Open options

☐ Use Advanced options

Reader type: Port name: Port interface: arg:

Read NFC data Write NFC data Security TOOLS

WiFi URI BT MAC Address SMS Location Destination E-mail Address Application

* Name

Company:

Address:

Phone:

E-mail:

Website:

Write vCard

Successive writing

☐ Write Contact NDEF in succession

Number of tags to write:

Write selection

☒ Tag

☐ Reader EEPROM (144 bytes max)

☐ Reader RAM (1008 bytes max)

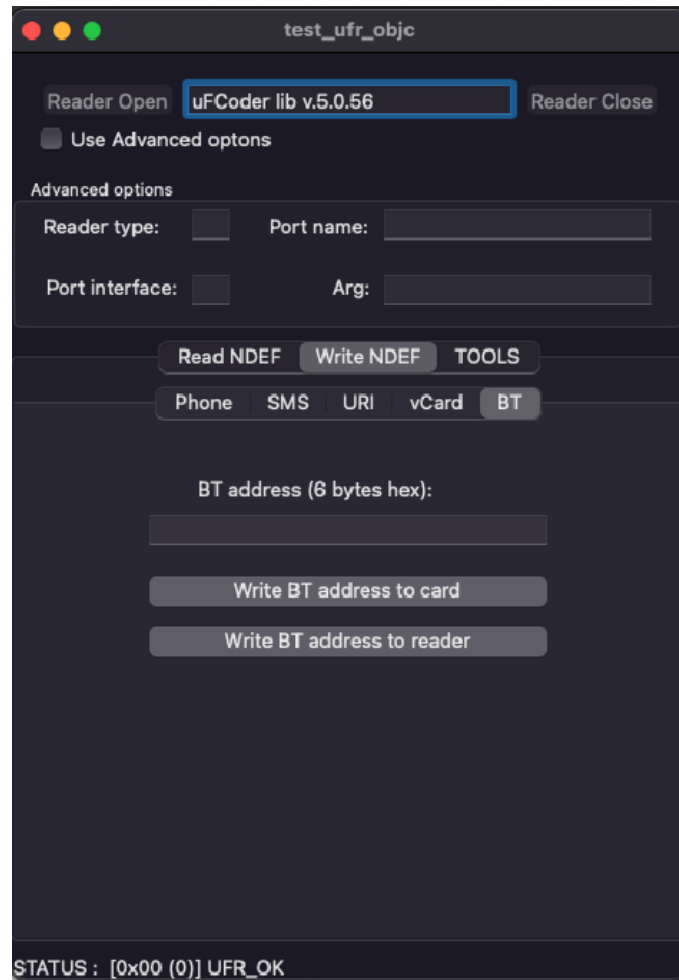
DEVICE SN : UN104656 HW : 26.21 FW : 5.0.55 DLL : 5.0.56

STATUS CONNECTED OK - Reading done

Write BT address

Type BT address (6 bytes hexadecimal) and click button to store it into card or into reader (tag emulation mode).

MacOS



test_ufr_objc

Reader Open **uFCoder lib v5.0.56** Reader Close

☐ Use Advanced options

Advanced options

Reader type: Port name:

Port interface: Arg:

Read NDEF Write NDEF TOOLS

Phone SMS URI vCard BT

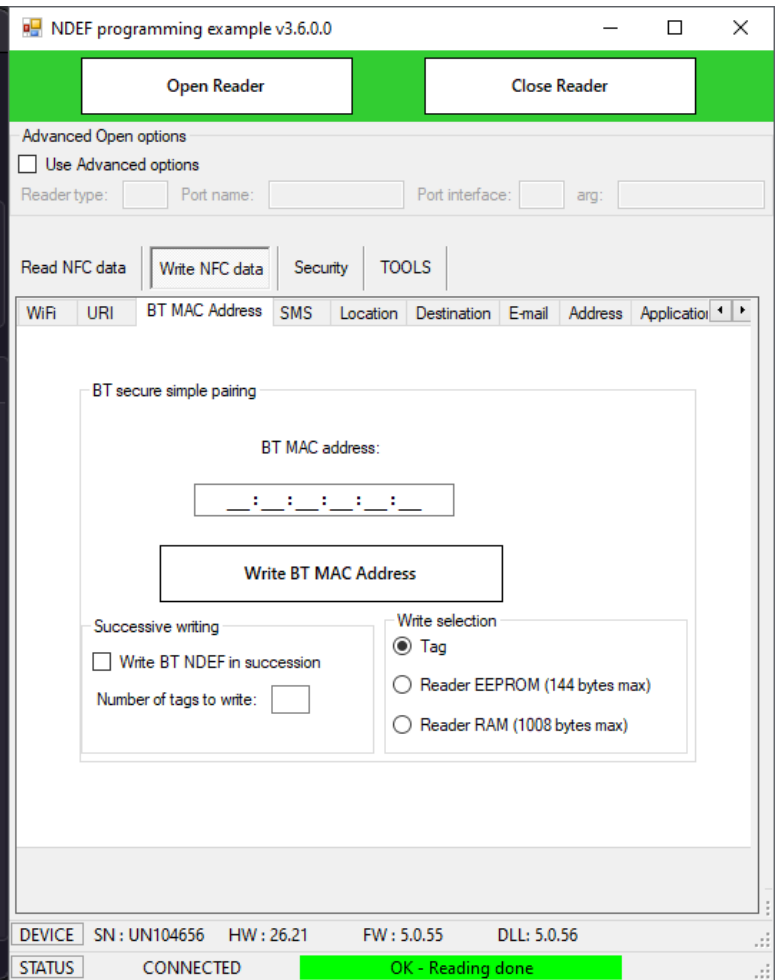
BT address (6 bytes hex):

Write BT address to card

Write BT address to reader

STATUS : [0x00 (0)] UFR_OK

Windows



NDEF programming example v3.6.0.0

Open Reader Close Reader

Advanced Open options

☐ Use Advanced options

Reader type: Port name: Port interface: arg:

Read NFC data Write NFC data Security TOOLS

WiFi URI BT MAC Address SMS Location Destination E-mail Address Application

BT secure simple pairing

BT MAC address:

Write BT MAC Address

Successive writing

☐ Write BT NDEF in succession

Number of tags to write:

Write selection

☒ Tag

☐ Reader EEPROM (144 bytes max)

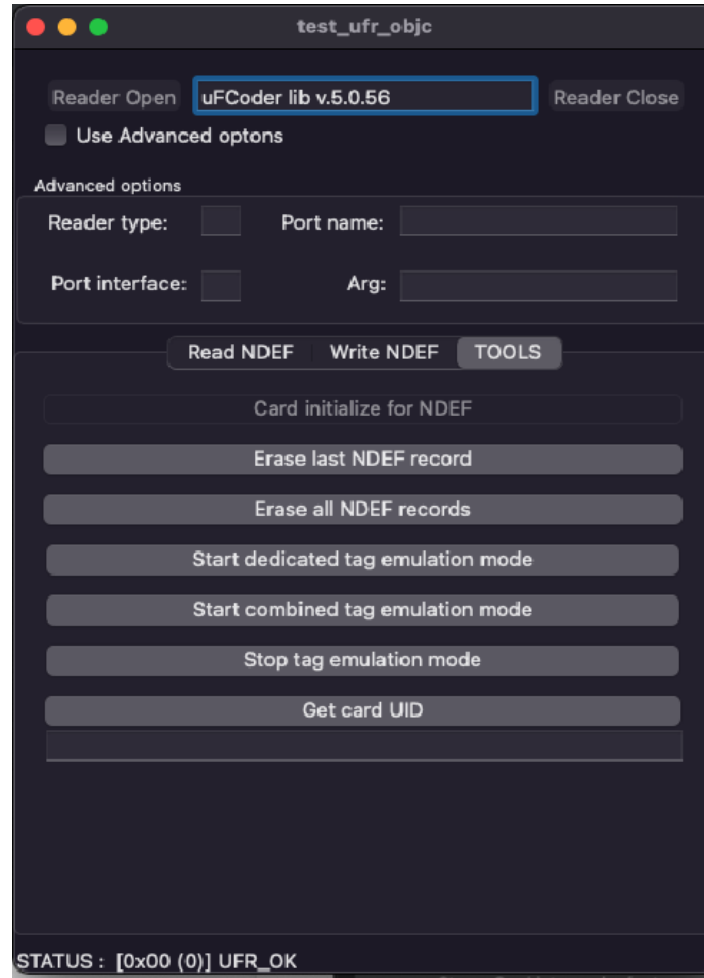
☐ Reader RAM (1008 bytes max)

DEVICE SN : UN104656 HW : 26.21 FW : 5.0.55 DLL : 5.0.56

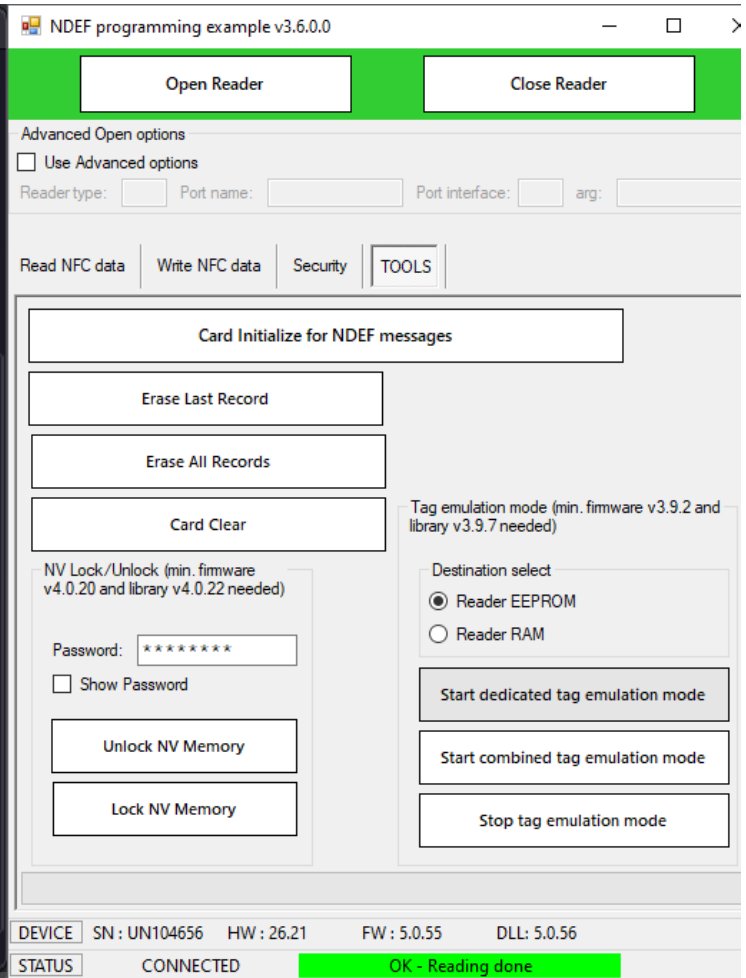
STATUS CONNECTED OK - Reading done

TOOLS

MacOS



Windows



At 'TOOLS' page you will be able to initialize card for NDEF if it's not already initialized (for example, you can initialize MIFARE® CLASSIC 1K card, erase last or all NDEF records from card, start tag emulation mode which will allow you to store NDEF messages to reader, also if you want you can stop tag emulation mode and you can read card's UID.

Revision history

Date	Version	Comment
2021-11-01	1.1	Function descriptions updated
2019-05-08	1.0	Base document