

uFR Online NFC Reader - Android 1.5 version

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Application preview

At the beginning, the application will ask you to allow access to the device's location. Please allow it to be able to scan uFR Online device's that are in BT Serial/BLE mode successfully.

WiFi NFC Reader - μ FR Online

☒ HTTP ☐ TCP ☐ UDP ☐ BT ☐ BLE Ver 1.4

IP address / Serial number : SCAN

Manual input: IP or MAC address Port : 80 CONNECT

Beep signal: Short Light signal: Long green UI SIGNAL

Card UID : GET UID

Command : SEND

Response :

WiFi NFC Reader - μ FR Online

☒ HTTP ☐ TCP ☐ UDP ☐ BT ☐ BLE Ver 1.4

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Card UID : GET UID

Command : SEND

Response :

Allow **uFR Online NFC Reader** to access this device's location?

DENY ALLOW

Options

By clicking on the 'SCAN' button, available uFR Online readers will be shown in 'IP_address/Serial_number' format. Notice that you have to be connected to the same network as the reader(s). If you can't find the reader's ip address by clicking on the 'SCAN' button, you can optionally use the provided field for manual input of the IP address. If the IP address is manually entered, the application will prioritize and use that value, if the field for manual ip address input is empty, the application will use IP address from the drop-down list.

When you select the reader's IP address from the drop-down list, and click the button 'GET UID', you will be able to see the card's UID in the text field.

By clicking the button 'UI SIGNAL', you will be able to hear sound from buzzer and alternation light signal.

The screenshot shows the 'WiFi NFC Reader - uFR Online' application interface. At the top, there is a green header with a logo and the title. Below the header, there are radio buttons for communication protocols: HTTP (selected), TCP, UDP, BT, and BLE. To the right of these buttons is a version indicator 'Ver 1.4'. Below the protocol buttons is a label 'IP address / Serial number :'. Under this label is a dropdown menu showing a list of IP addresses and serial numbers: '192.168.1.81 / ON101390', '192.168.1.81 / ON101390', '192.168.1.99 / ON101494', and '192.168.1.116 / ON101362'. To the right of the dropdown menu is a 'SCAN' button. Below the dropdown menu is a 'Card UID :' label and an empty text input field. To the right of the input field is a 'GET UID' button. Below the input field is a 'Command :' label and an empty text input field. To the right of the input field is a 'SEND' button. Below the input field is a 'Response :' label and an empty text input field. To the right of the input field is a 'UI SIGNAL' button. To the right of the input field is a 'Connected' button.

The same thing will happen if you choose UDP or TCP/IP communication protocol.

If the HTTP protocol is selected, then the port is always 80 by default.

If UDP or TCP/IP protocol is selected, you can modify the port by yourself. Note that if you work with HTTP, TCP/IP or UDP connection, the button "CONNECT" will turn to "Connected" and it will become green.

You can also type hexadecimal command from uFR COM protocol to send it to the reader.

Simply type the command and click the 'SEND' button. The picture below shows USER_INTERFACE_SIGNAL command sent to reader:

WiFi NFC Reader - uFR Online

☒ HTTP
 ☐ TCP
 ☐ UDP
 ☐ BT
 ☐ BLE
 Ver 1.4

IP address / Serial number : 192.168.1.81 / ON101390 SCAN

Manual input: 192.168.1.81
 Port : 80
 Connected

Beep signal: Short
 Light signal: Long green
 UI SIGNAL

Card UID : A5BF76F9 GET UID

Command : 55 26 AA 00 01 01 XX
 SEND


Response : DE26ED0000001C

You can also send commands with delimiters, and if you want automatic checksum calculation - you can type 'XX' as the last byte in your command.


BT Serial / BLE mode

Before you start to use this application with uFR Online readers in BT/BLE mode, you need to pair them with your phone. uFR Online devices in BT Serial mode have prefix “_BT” and devices in BLE mode have prefix “_BLE” in their name after serial number.


BT serial pairing


Bluetooth

SCAN




ON




Make sure your Bluetooth device is in pairing mode to connect.

AVAILABLE DEVICES




ON101390_BT
Pairing...


Your phone (Galaxy J7 (2016)) is currently visible to nearby devices.


Bluetooth

SCAN




ON




Make sure your Bluetooth device is in pairing mode to connect.

PAIRED DEVICES



ON101390_BT



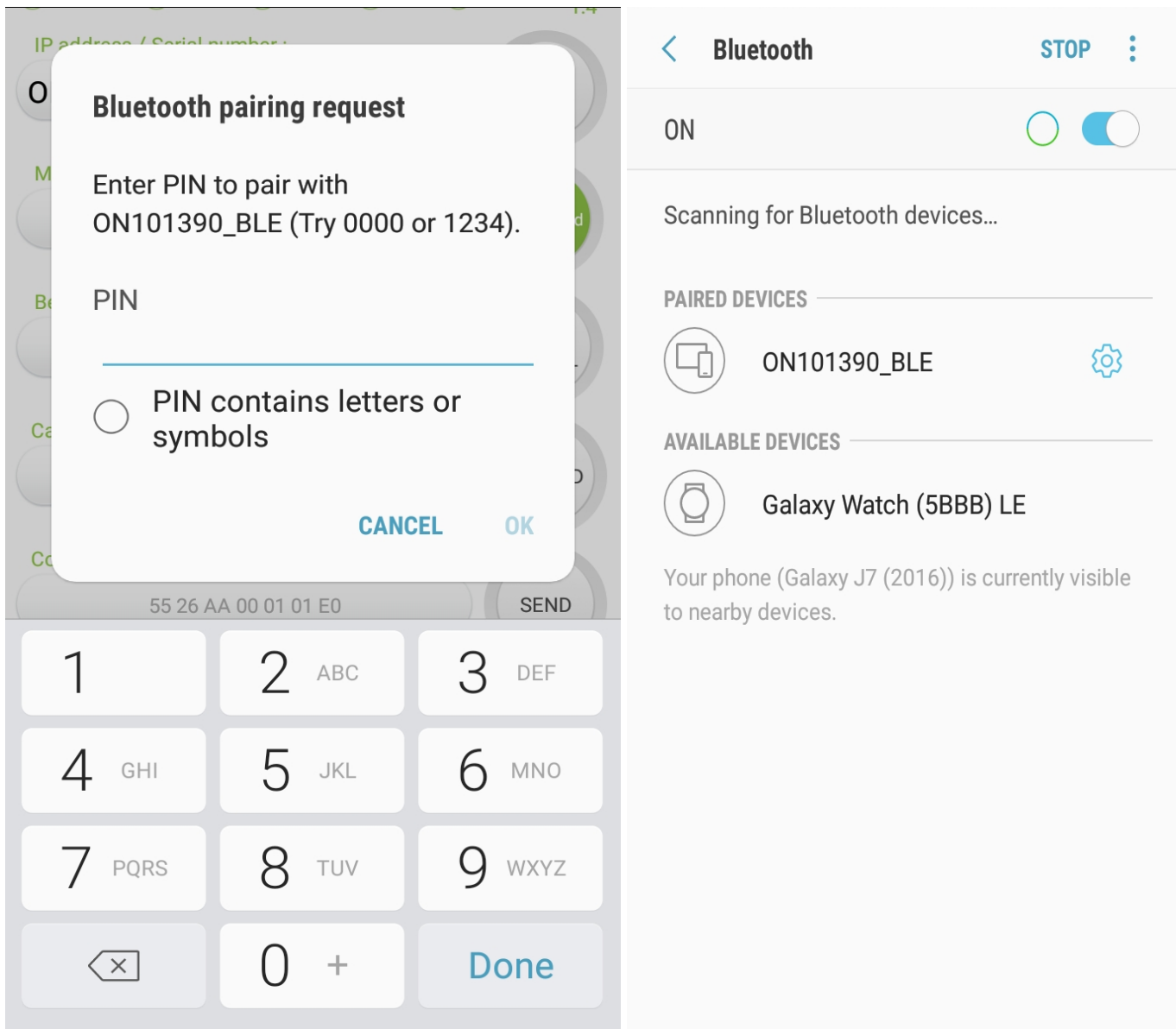
AVAILABLE DEVICES

No devices found


Your phone (Galaxy J7 (2016)) is currently visible to nearby devices.

BLE pairing

When you select the device you want to pair with it, you need to type the device's PIN for pairing.



If you click on the BT or BLE radio button, the application will ask for permission to turn BT ON, if it isn't already turned ON. After turning BT ON, you will be able to click the "SCAN" button and see paired uFR Online readers with your phone. Choose the device you want to work with and click the "CONNECT" button.


WiFi NFC Reader - μFR Online

☐ HTTP ☐ TCP ☐ UDP ☒ BT ☐ BLE Ver 1.4

IP address / Serial number :
 ON101390_BT A4:CF:12:40:30:06

Manual input: A4:CF:12:40:30:06

Port : 8881

Beep signal: Short

Light signal: Long green

Card UID :

Command :

Response :
 DE26ED00000010

Connecting ... Please wait

When you click the "CONNECT" button, wait until the device is connected, and then you will be able to work with uFR Online reader. If the device is successfully connected, the "CONNECT" button will become green.



☐ HTTP
 ☐ TCP
 ☐ UDP
 ☒ BT
 ☐ BLE
 Ver 1.4

IP address / Serial number :

ON101390_BT A4:CF:12:40:30:...

SCAN

Manual input:

A4:CF:12:40:30:06

Port :

80

Connected

Beep signal:

Short

Light signal:

Long green

UI
SIGNAL

Card UID :

A5BF76F9

GET UID

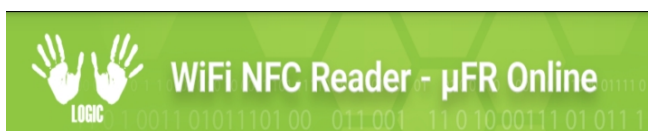
Command :

55 26 AA 00 01 01 E0

SEND

Response :

DE26ED0000001C



☐ HTTP
 ☐ TCP
 ☐ UDP
 ☐ BT
 ☒ BLE
 Ver 1.4

IP address / Serial number :

ON101390_BLE A4:CF:12:40:30:..

SCAN

Manual input:

A4:CF:12:40:30:06

Port :

80

Connected

Beep signal:

Short

Light signal:

Long green

UI
SIGNAL

Card UID :

A5BF76F9

GET UID

Command :

55 26 AA 00 01 01 E0

SEND

Response :

DE26ED0000001C

Revision history

Date	Version	Comment
2021-10-29	1.5	Keywords and descriptions update
2019-06-17	1.4	Base document