

# Using Android uFR Library Version 1.2

# Table of contents

<b>Get Android uFR Library</b>	<b>3</b>
<b>Include uFCoder in Android Studio project</b>	<b>3</b>
<b>Build Gradle configuration</b>	<b>3</b>
<b>uFR library usage example</b>	<b>4</b>
<b>Revision history</b>	<b>6</b>

## Get Android uFR Library

Follow the instructions below to get library.

1. Navigate to <https://www.d-logic.net/code/nfc-rfid-reader-sdk/ufr-lib>
2. Download or clone ufr-lib repository.
3. Open folder Android and locate 'uFCoder.aar' file.

## Include uFCoder in Android Studio project

Follow the instructions below to include the library in your Android project.

1. Create new or open existing Android project.
2. Open project folder in File Explorer.
3. Navigate to "<MyProject>/app" directory.
4. Download "[ufr-lib](#)" and rename it as "libs" inside the "/app" directory so the final path is "<MyProject/app/libs>"

## Build Gradle configuration

Follow the instructions below to configure the build gradle for using the library.

1. Open build.gradle file (the one under 'app')
2. Add **implementation files('libs/uFCoder.aar')** under dependencies.
3. Click on the 'sync now' button to sync projects with Gradle files.

As of uFCoder version **5.0.61**, additional Android libraries have been added.

1. Open build.gradle file (the one under 'app')
2. Add **implementation files** under "*dependencies*":
  - a. Add **('libs/android/uFCoder.aar')** - contains support only for Android internal NFC;
  - b. Add **('libs/android\_sunmi/uFCoder.aar')** - which supports Sunmi devices & Android internal NFC;
  - c. Add **('libs/android\_nexgo/uFCoder.aar')** - which supports Nexgo devices & Android internal NFC;
3. Click on the 'sync now' button to sync projects with Gradle files.

## uFR library usage example

```
package com.dlogic.example;

import com.dlogic.uFCoder;

public class MainActivity extends AppCompatActivity {

    static {
        System.loadLibrary("uFCoder"); //Load uFCoder library
    }

    int status;
    uFCoder uFCoder; //Create uFCoder class instance

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        uFCoder = new uFCoder(getApplicationContext(), this);

        status = uFCoder.ReaderOpen();
        //if you wish to use internal Android NFC reader use the following line instead of ReaderOpen():
        // status = uFCoder.ReaderOpenEx(5, "", 0, "");

        if(status == 0x00)
        {
            status = uFCoder.ReaderUISignal((byte) 1, (byte)1);

            byte card_type[] = new byte[1];
            byte uid[] = new byte[10];
            byte uid_size[] = new byte[1];

            s = uFCoder.GetCardIdEx(card_type, uid, uid_size);
        }
    }
}
```

## Revision history

Date	Version	Comment
2022-02-25	1.2	<a href="#">Build Gradle configuration</a> section updated so as to conform to uFCoder library version 5.0.61
2021-11-22	1.1	uFR library usage example updated.
2019-06-26	1.0	Base document