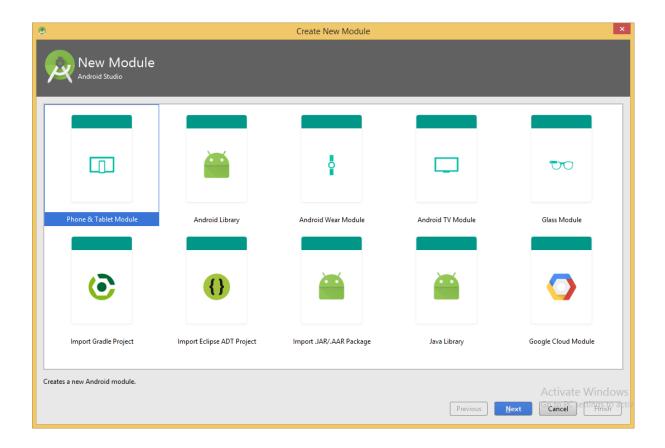
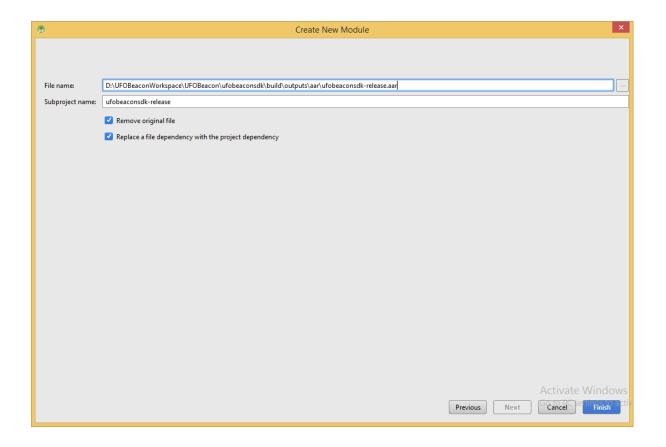
## **UFO SDK Guide**

# How to add .aar file to Project

- 1. First create new project in Android studio.
- 2. Select "File > New" from top menu in Android studio.
- 3. From "New -> New Module" and it will open one window as below.

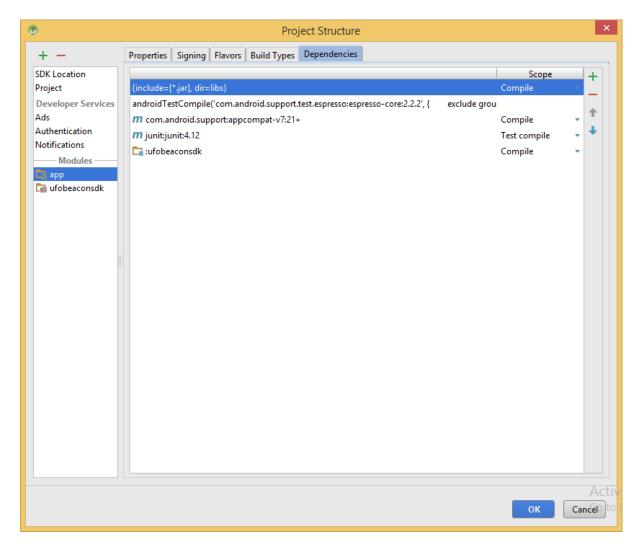


4. Select Import .JAR/.AAR Package from selection. It will load new screen with asking for selecting path of .JAR/.AAR. Here select the path where the .AAR file is located.



- 5. Once selected path of .AAR file select the finish. Now again go to "File-> Project structure". Select the "app" from left side below "Modules".
- 6. Now click on "Dependencies" from tab and select "+" icon and from that select the choose module.

7. One the Ufobeaconsdk is selected the screen should be look as below.



8. The ufosdk configuration is completed now you can access the UFOBeaconManager as below.

## **Classes**

1.	<b>UFO</b>	Beaco	nMa	nager
----	------------	-------	-----	-------

UFOBeaconManager is a main class of the library. It allows you to scan nearby UFO devices.

## Methods of UFOBeaconManager:

- 1. startScan(OnScanSuccessListener onScanSuccessListener, OnFailureListener onFailureListener)
- 2. stopScan(OnSuccessListener onSuccessListener, OnFailureListener onFailureListener)
- 3. isBluetoothEnabled(OnSuccessListener onSuccessListener, OnFailureListener onFailureListener)
- 4. enable(OnSuccessListener onSuccessListener, OnFailureListener onFailureListener)
- 5. isLocationServiceEnabled(OnSuccessListener onSuccessListener, OnFailureListener onFailureListener)

## Method Guide:

startScan()

It will start the scanning of nearby UFO devices and return the UFODevice object of the founded UFO

device in onSuccess method of OnScanSuccessListener. If any error found then it will return the error message with error code in onFailure method of OnFailureListener.

Note:- Make sure Bluetooth is enabled and Location service enabled if Android OS >= 6.0 otherwise it will return an error in failure listener.

```
Parameters:
          1:- OnScanSuccessListener()
          2:- OnFailureListener()
Sample code:-
ufoBeaconManager.startScan(new OnScanSuccessListener() {
    @Override
    public void onSuccess(final UFODevice ufodevice) {
        runOnUiThread(new Runnable() {
             @Override
             public void run() {
                      //update UI
             }
        });
}, new OnFailureListener() {
    @Override
    public void onFailure(final int code, final String message) {
        runOnUiThread(new Runnable() {
             @Override
             public void run() {
       //update UI
        });
});
```

## stopScan()

It will stop the scanning of nearby UFO devices and return success response in onSuccess method of OnSuccessListener. If any error found then it will return the error message with error code in onFailure method of OnFailureListener.

```
Parameters:
           1:- OnSuccessListener()
          2:- OnFailureListener()
ufoBeaconManager.stopScan(new OnSuccessListener() {
    @Override
    public void onSuccess(boolean isStop) {
        runOnUiThread(new Runnable() {
             @Override
             public void run() {
             // update UI
        });
}, new OnFailureListener() {
    @Override
    public void onFailure(final int code, final String message) {
        runOnUiThread(new Runnable() {
             @Override
             public void run() {
                 // update UI
             }
        });
    }
});
```

## isBluetoothEnabled()

Check if Bluetooth enabled or not on device and return response in onSuccess method of OnSuccessListener. If any error found then it will return the error message with error code in onFailure method of OnFailureListener.

Parameters:

```
1:- OnSuccessListener()2:- OnFailureListener()
```

isLocationServiceEnabled() // Required to check only for Android 6.0 and above

Check if Location Service is enabled or not on device and return response in onSuccess method of OnSuccessListener. If any error found then it will return the error message with error code in onFailure method of OnFailureListener.

```
Parameters:
    1:- OnSuccessListener()
    2:- OnFailureListener()

ufoBeaconManager.isLocationServiceEnabled(new OnSuccessListener() {
    @Override
    public void onSuccess(boolean isSuccess) {
    }
}, new OnFailureListener() {
    @Override
    public void onFailure(int code, String message) {
    }
});
```

## enableBluetooth()

Enable Bluetooth on device and return response in onSuccess method of OnSuccessListener. If any error found then it will return the error message with error code in onFailure method of OnFailureListener.

#### Parameters:

- 1:- OnSuccessListener()
- 2:- OnFailureListener()

## Sample code:-

```
ufoBeaconManager.enable(new OnSuccessListener() {
            @Override
            public void onSuccess(boolean isEnabled) {
             runOnUiThread(new Runnable() {
                    @Override
                    public void run() {
                        // if isEnabled true then BT is enabled else
disabled
                });
            }
        }, new OnFailureListener() {
            @Override
            public void onFailure(int code, String message) {
             runOnUiThread(new Runnable() {
                    @Override
                    public void run() {
                        // print error message in logs or toast.
                });
            }
        });
```

## Connect with UFO device.

To connect with UFO device we must have the "ufodevice" object return by the "OnScanSuccessListener".

```
ufodevice.connect(new OnConnectSuccessListener() {
        public void onSuccess(UFODevice ufoDevice) {
            // return then same ufo device object with successfully
    connection with device.
    }, new OnFailureListener() {
        @Override
        public void onFailure(final int code, final String message) {
            runOnUiThread(new Runnable() {
                @Override
                public void run() {
                // print error message in logs or toast.
                 }
          });
⇒ To verify the device type return by the UFO device use the below
  condition.
  if (ufodevice != null && ufodevice.getDeviceType() ==
  UFODeviceType.IBEACON) // its iBeacon model
  or
  if (ufodevice != null && ufodevice.getDeviceType() ==
  UFODeviceType.EDDYSTONE) // its Eddystone model
\Rightarrow If device type is eddystone then verify the differnet frame type use
  below condition.
   ufodevice.getEddystoneType() == EddystoneType. EDDYSTONE UID URL TLM
   ufodevice.getEddystoneType() == EddystoneType.EDDYSTONE UID TLM
   ufodevice.getEddystoneType() == EddystoneType. EDDYSTONE URL TLM
   ufodevice.getEddystoneType() == EddystoneType.EDDYSTONE UID
   ufodevice.getEddystoneType() == EddystoneType.EDDYSTONE URL
```

ufodevice.getEddystoneType() == EddystoneType.EDDYSTONE TLM

#### Write Password to UFO device:

To write password to device for iBeacon just pass the string variable to "setPasswrod" Method. If password is correct then "OnBeaconSuccessListener" will be called.

To Configure the iBeacon UFO device below parameter is used to set the UUID, Major and Minor Value.

```
1> For UUID
ufodevice.setiBeaconProximityUUID(String UUID, new
OnBeaconSuccessListener() {
    @Override
   public void onSuccess(boolean isSuccess) {
}, new OnFailureListener() {
    @Override
   public void onFailure(final int code, final String message) {
});
2> For Major
ufodevice.setiBeaconMajor(int Major, new OnBeaconSuccessListener()
    @Override
   public void onSuccess(boolean isSuccess) {
}, new OnFailureListener() {
    @Override
   public void onFailure(final int code, final String message) {
});
3> For Minor
  ufodevice.setiBeaconMinor(int Minor, new
  OnBeaconSuccessListener() {
      @Override
      public void onSuccess(boolean isSuccess) {
  }, new OnFailureListener() {
      public void onFailure(final int code, final String message)
  {
      }
  });
```

#### 4> For iBeacon TxPower

```
ufodevice.setiBeaconTxPower(int TxPower, new
OnBeaconSuccessListener() {
    @Override
   public void onSuccess(boolean isSuccess) {
    }
}, new OnFailureListener() {
    @Override
   public void onFailure(final int code, final String message)
{
   }
});
5> For iBeacon Advertisement Interval
ufodevice.setiBeaconAdvertisementInterval(int
AdvertiseInterval), new OnBeaconSuccessListener() {
    @Override
    public void onSuccess(boolean isSuccess) {
}, new OnFailureListener() {
    @Override
   public void onFailure(final int code, final String message)
    {
} );
```

To configure the Eddystone UFO Beacon device below parameter is used to set the different parameter based on frame.

## 1> To set the URI Flag

```
ufodevice.setEddystoneFrames(EddystoneType eddystoneType
     , new OnBeaconSuccessListener() {
         @Override
         public void onSuccess(boolean isSuccess) {
     }, new OnFailureListener() {
         @Override
         public void onFailure(final int code, final String message)
     {
         }
     });
2> To set the URL
    ufodevice.setEddystoneURI(String url, new
    OnBeaconSuccessListener() {
         @Override
         public void onSuccess(boolean isSuccess) {
     }, new OnFailureListener() {
         @Override
         public void onFailure(final int code, final String message)
     {
         }
     });
3> To set the UID
    ufodevice.setEddystoneUID(String namespaceId, String instanceId,
    new OnBeaconSuccessListener() {
         @Override
         public void onSuccess(boolean isSuccess) {
     }, new OnFailureListener() {
         @Override
        public void onFailure(final int code, final String message)
     {
     });
```

## 4> To set Eddystone TxPower

```
ufodevice.setEddystoneTxPower(int TxPower, new
    OnBeaconSuccessListener() {
        @Override
        public void onSuccess(boolean isSuccess) {
        }
     }, new OnFailureListener() {
        @Override
        public void onFailure(int code, String message) {
        }
     });
5> To set Eddystone Advertisement Interval
    ufodevice.setEddystoneAdvertisementInterval
      (int advertiseMent, new OnBeaconSuccessListener() {
         @Override
        public void onSuccess(boolean isSuccess) {
     }, new OnFailureListener() {
        @Override
        public void onFailure(int code, String message) {
     });
```