
8thlab Android Tracker SDK Documentation

Release 0.0.1

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Library Dependencies and Requirements

1.1 Dependencies:

- [OkHttp](#) - version: 3.4.1; HTTP post request to our backend service with detected MAC addresses

1.2 Requirements:

- **Minimum Android SDK version:** 9
- **Target/Compile Android SDK version:** 23

Library Orchestration

- **GIT repository:** [GitHub](#)
- **CI system:** Travis CI
- **Maven repository:** [Sonatype OSS](#)

2.1 Publication flow:

- **SNAPSHOT:**
 1. GIT Commit
 2. Green Travis CI Build
 3. Snapshot Version publication to OSS repository
- **RELEASE:**
 1. Green local build
 2. Version change
 - (a) Git Tag
 - (b) Version update in version file
 3. Publication
 - (a) Push release to GitHub
 - (b) Release version publication
 4. Promote version to maven central

Used android features

Library use different features depending on android version

- **API level 18+:**
 - Bluetooth Low Energy scanning - [Android docs](#)
- **API level <18:**
 - Bluetooth scanning - [Android docs](#)

Because of used features appropriate permission are present in [AndroidManifest.xml](#)

- BLUETOOTH
- BLUETOOTH_ADMIN
- ACCESS_COARSE_LOCATION
- INTERNET
- ACCESS_NETWORK_STATE

Usage

```
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;

import com.a8thlab.trackersdk.A8thLABSDK;

public class TrackerSDKTest extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_tracker_sdktest);
        String appId="APP_ID";
        String appToken="APP_TOKEN";
        A8thLABSDK.initializeSDK(getApplicationContext(), appId, appToken);
    }
}
```

In order to use library, execute static method `initializeSDK` that is present in `A8thLABSDK` class . Method accepts three parameters: application context, your unique application id provided by us, your unique application token provided by us.

After that method execution appropriate threads and listeners are created, depending on android version and supported features.

Simplified flow

Simplified flow of library is as follows:

1. Start Bluetooth discovery
2. On device discovery:
 - (a) POST discovered device MAC to our backend service
3. Continue device discovery after 250ms

Indices and tables

- `genindex`
- `modindex`
- `search`