



DynConD Android library implementation guide

- Download the DynConD Android library from <http://dyncond.com/downloads/>
- For both, new or existing Android studio projects, extract the DynConD Android library into the project folder
- DynConD Android library requires a minimum API level 23 (Android 6.0 - Marshmallow)
- In the AndroidManifest.xml, permissions for network (Internet) and Wi-Fi must be set as:

```
<uses-permission android:name="android.permission.ACCESS_WIFI_STATE" />
<uses-permission android:name="android.permission.INTERNET" />
<uses-permission android:name="android.permission.ACCESS_NETWORK_STATE" />
```

- In the Android Studio, go to File -> New -> New Module -> Import .JAR/.AAR Package -> Next -> Find DynConD Android library file -> Finish
- In the application's *build.gradle* use *dependencies* to implement the library as follows:

```
implementation project(":DynConD_Library")
```

- For a successful call of the DynConDInetAddress function set

```
import dyncond.dyncondlib.DynConDInetAddress;
```

in Activity

- Call DynConDInetAddress function in Activity as follows:

```
DynConDInetAddress dynConDInet = new DynConDInetAddress(getApplicationContext());
InetAddress[] dyncond = DynConDInetAddress.getAllByName(...);
or
InetAddress[] dyncond = DynConDInetAddress.getByName(...);
or
InetAddress[] dyncond = DynConDInetAddress.getAllByNameADNS(...);
```

- DynConD's **DynConDInetAddress** class is a replacement for the standard *InetAddress* class and has the same basic methods and results as the *InetAddress* class. If no IP address is returned by the DynConDInetAddress class, the standard non DynConD DNS A/AAAA resolving can be used
- DynConD's **DynConDInetAddress** class by default uses local Android host DNS resolvers. By using the *getAllByNameADNS* method with a defined *service* value of "100", authoritative DynConD DNS servers (ADNS) are used instead of local Android host DNS resolvers. This way, the real-time DSS parameters are obtained from servers, avoiding using cached values in the process whose accuracy depends on the TTL value of the TXT RRs. If no IP address is returned when using the ADNS query, the *getAllByNameADNS* class automatically performs a standard recursive DNS query after the Timeout period defined in TXT RR