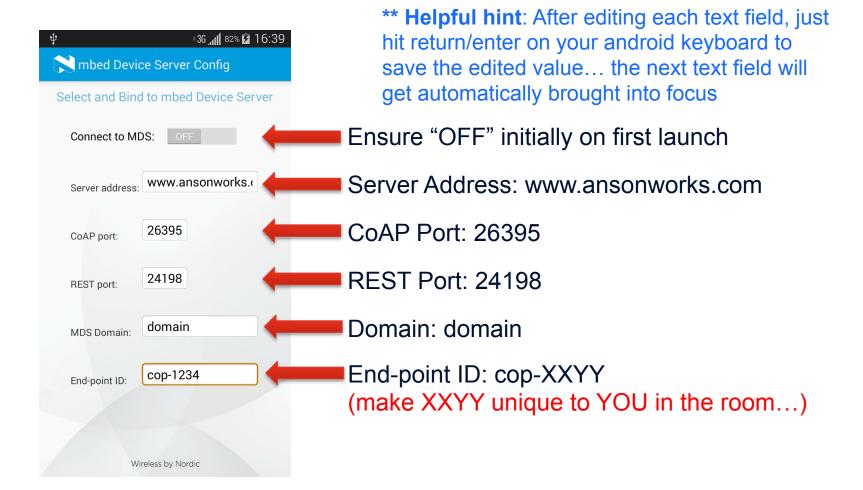
## Workshop: Getting Started

This workshop assumes you have *already* setup and are comfortable with:

Android Developers	MBED Developers
Using Windows (x86), Linux, or MacOS	Browser-based.
Android Eclipse/ADT bundle installed https://developer.android.com/sdk/installing/index.html	Windows Users: MBED USB driver installed https://mbed.org/handbook/Windows-serial-configuration
Android SDK populated with:  Latest Tools  Android API 19 installed  Windows: Google USB Driver installed (in Extras)  Google Place Services Installed (in Extras)  Android Support Library installed (in Extras)	
<ul><li>Android Device configuration</li><li>USB debugging enabled in android device</li></ul>	
Android Project "PoliceHRM" cloned and imported	<ul> <li>MBED "BLE_Police_HRM_Button" imported into project space</li> <li>Nordic platform set as compile target</li> <li>Update line 24 of main.cpp: make it "unique" for BLE joining</li> <li>Compiled OK and HEX bin file copied into Nordic device <a href="https://developer.mbed.org/teams/MBED_DEMOS/code/BLE_Police_HRM/">https://developer.mbed.org/teams/MBED_DEMOS/code/BLE_Police_HRM/</a></li> </ul>
Pair up to bring both development environments together	

## Workshop: Getting Started...

 For Android Developers, the PoliceHRM mbed Device Server (MDS) configuration should be as follows:

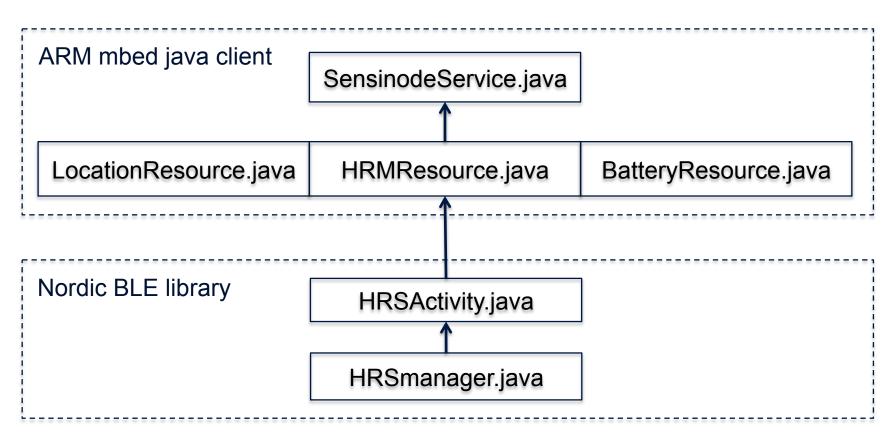


## **BLE to CoAP Proxy**

- Application installed on Android device, connects BLE devices to mbed Device Server
- Combines Nordic BLE library with ARM mbed Java Client to create a BLE to CoAP Gateway
- Scans BLE and registers nearby HRS as CoAP endpoint
- Exposes HR value, location, battery level, and descriptors
- Pushes updates of HR value to mbed Device Server
- Application software can discover and interact with all registered HRS endpoints

## **BLE to CoAP Proxy**

To mbed Device Server



From BLE HRS Device