



# ATAK UAS Tool Quick Start

## Steps with DJI:

1. DJI Platform
2. Android Device
  - a. Works best with Samsung S9 or better
  - b. Android 5.0 OS and above compatible
3. WiFi or Cellular – Sharing Data
  - a. TAK Server or TeamConnect for Connection on the Android Device
4. Install ATAK APKs onto Android Device
  - a. Install ATAK-4.X-civ-release.apk
  - b. Install ATAK-Plugin-UASTool-4.X-civ-release.apk
5. Launch ATAK on the Android Device
  - a. Accept Permissions
  - b. Enable Allow GPS/Location All the Time
6. Setup ATAK Device – Load Server, Maps, and DTED:
  - a. Sideload the following files to the Android Device by putting them into the Internal Storage Downloads Folder :
    - i. DTEDLevel0.zip (keep zipped!)
    - ii. Map Sources.zip (keep zipped!)
    - iii. XX-Server.zip (keep zipped!)
  - b. Within ATAK, hit top right three dots, scroll to Import Manager, navigate to Internal Storage > Downloads > Select the 3 x zipped files
  - c. Wait for the prompts to import each item
  - d. Pull down the top Android Notification Bar to monitor import
  - e. Check DTED importation by using the RED X Tool on the ATAK Toolbar
  - f. Check Maps by going to the folding map icon on the top ATAK Toolbar and hitting Mobile/Online sources > Viable WMS Map Source
7. Load ATAK UAS Tool Plugin
  - a. Within ATAK, hit top right three dots, scroll to Settings > TAK Package Management > Load the UAS Tool Plugin
  - b. User will be prompted to install supporting APK – ONLY INSTALL THE ATAKGO APK FOR DJI, do NOT install QGC Agent (this only applies to Parrot Anafi and will have adverse effects on other platform usage).
  - c. Open ATAKGO ONCE to accept Android Permissions
8. Once ATAK is running and UAS Tool is loaded, hit three dots top right, scroll to UAS Tool, click it, hit the plus button, click platform, select DJI
9. Power on your DJI platform and remote controller, ensure you have GPS signal and the controller says ready to GO
10. Plug a USB-A into the bottom of the DJI RC and a USB-C into your Android Device – make sure ATAK and UAS Tool with DJI selected as the platform is open at this point.

11. User's Android Device will prompt once USB handshake happens and prompt the user to choose which app to use with that USB device, **SELECT ATAKGO**
12. DJI drone will show up in ATAK UAS Tool as connected, hit the play video button, video will appear, do ground checks/fly safely, invert joysticks and GO.
13. To Stream FMV with KLV to Wowza to produce a global/BLOS video RTSP feed do the following:
  - a. With UAS Tool's pane open in ATAK, hit the three dots top right on the ATAK toolbar, scroll to settings, this should bring the user to the ATAK UAS Tool Settings, from there hit Network Preferences, hit Video Broadcast Destination, Select Wowza Server, Hit YES UPDATE, change Video Destination IP Address to: XXX.XXX.XXX.XXX, hit YES UPDATE again.
  - b. Hit the back button until you get back to ATAK moving map plus UAS Tool plugin pane, hit the play button, on the bottom of the video there is a play button with WiFi-like semi-circles, hit that button (ensure you have WiFi or Cellular), this will start broadcasting the video to Wowza via RTSP to negotiate the RTSP Video URL (to preserve metadata in the video, mux'd in from UAS Tool, Wowza needs the Wowza KLV Plugin).
  - c. To verify the RTSP feed, put the following into VLC Player OR use another WinTAK or ATAK device (on a different WiFi or Cellular connection to conserve bandwidth): the RTSP feed should be something like this:  
`rtsp://XXX.XXX.XXX.XXX:1935/live/UAS-<CALLSIGN>`

