



Exporting VektaFields Maps to Agriculture Drones

A field-ready guide to importing field boundaries from VektaFields into XAG, DJI Pilot 2, and TopXGun drone systems.

Covers	XAG ONE DJI Pilot 2 TopXGun
File types	KML boundaries, Shapefile boundaries
Audience	Field operators and drone pilots using VektaFields

Import steps referenced from XAG, DJI Pilot 2, and TopXGun controller interfaces.

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1 Overview & File Types

After you finish drawing a field boundary in the VektaFields app, it needs to be exported and transferred to your drone's flight-control system before it can fly a mission. Each drone brand expects a different file format and import path. This guide walks through the three supported workflows: **XAG**, **DJI Pilot 2**, and **TopXGun**.

Drone system	Boundary file format	Transfer method
XAG ONE	.kml	Direct upload via the XAG FMS web platform
DJI Pilot 2	.kml	microSD card / USB stick into the Remote Controller
TopXGun	Shapefile (.shp set)	SD card into the controller

Before you start

- A field boundary created and finalized in VektaFields.
- The drone brand's own controller or web platform already set up (XAG account, DJI RC, or TopXGun controller).
- A microSD card, USB stick, or internet connection depending on the target platform (see table above).

2 XAG ONE Platform

2.1 Export from VektaFields

- 1 Mark the field boundary, including any obstacles or holes if needed.
- 2 Go to **Export** → **Operations**, select the operation, and choose **XAG Boundary mission**.
- 3 If the field has holes, pick how they should be treated (*Obstacles* = no fly-over, *No-spray areas* = fly without spraying), then click **Export**. The boundary is saved as a **.kml** file.

2.2 Upload to the XAG ONE platform

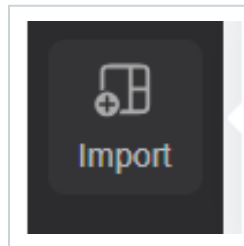


Fig. 1 — The Import tab in the XAG FMS platform.

- 1 Log in to the XAG FMS platform — **nf-us.xa.com** if you're in the US, or **nf.xa.com** everywhere else.
- 2 Select whether you're logging in as an **Individual** or an **Organization**.
- 3 Open the **Import** tab and choose **Field Import**.
- 4 Click **Upload** and select the exported **.kml** boundary file.
- 5 Once uploaded, click **Import app** to sync the boundary to the XAG ONE app.

2.3 Fly the mission in the XAG ONE app

- 1 Open the XAG ONE app.
- 2 Find the imported field from the icon menu in the top-left corner.
- 3 Set the desired flight parameters and tap **Start Operation** to begin the flight.

3 DJI Pilot 2 App

3.1 Export from VektaFields

- 1 Open **Boundaries** in the app, click the **Draw boundaries** icon, then choose **Boundary**. Note that obstacles are not included in this export.
- 2 Go to **Export** → **Boundaries**, select the boundary, and choose **KML** as the file format.
- 3 Copy the exported **.kml** file onto a microSD card or USB stick.

3.2 Import into DJI Pilot 2

- 1 Insert the microSD card or USB stick into the Remote Controller.
- 2 Go to **Mission Flight**.

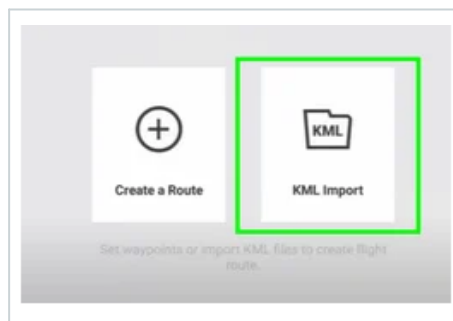


Fig. 2 — Select KML Import.

- 1 Select **KML Import**.

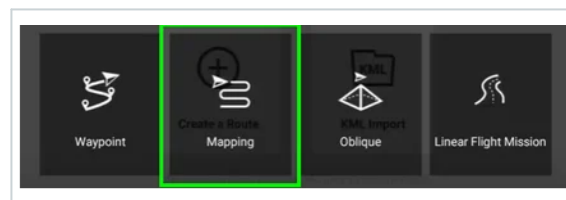


Fig. 3 — Choose Mapping as the route type.

- 1 Choose **Mapping** as the route type.
- 2 Click **External SD** and select the boundary file.

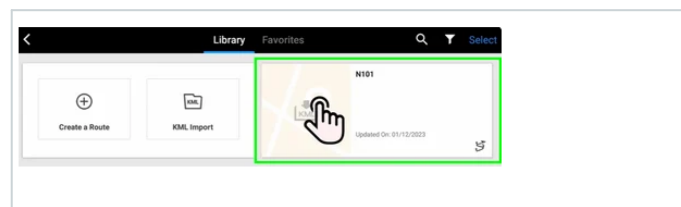


Fig. 4 — Tap the imported boundary in the library.

- 1 Tap the imported boundary in the library to load it and complete the setup.

This workflow applies to DJI mapping-capable aircraft such as the Mavic 3 Multispectral.

4 TopXGun Controller

4.1 Export from VektaFields

- 1 Go to **Export** → **Operations** and select the operation.
- 2 Choose **TopXGun** → **TopXGun Boundary Mission**.
- 3 The app generates a “**TopXGun**” folder containing a shapefile set.

4.2 Import into the TopXGun controller

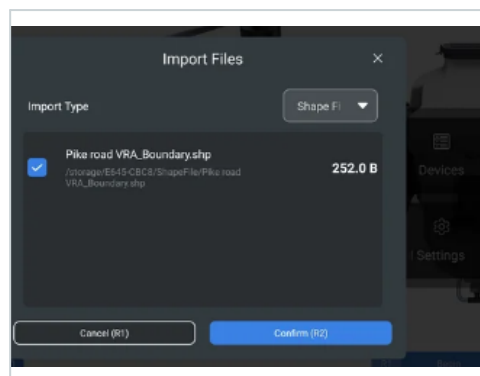


Fig. 5 — Import Files dialog for the boundary shapefile.

- 1 Copy the exported **TopXGun** folder onto an SD card.
- 2 Remove the SD card from the laptop and insert it into the controller, then power the controller on.
- 3 Click the **SD Card** icon.
- 4 Under **Import files**, select the boundary shapefile and click **Confirm**.

4.3 Fly the mission

- 1 Select the imported boundary field on the controller.
- 2 Set the desired flight parameters (route spacing, flight speed, spray settings) and load the product.
- 3 Tap **Start** to begin the flight.

5 Troubleshooting & Tips

General

- Re-export after any boundary edit; the drone controller always reads the file that's on the storage medium, not the version last synced in VektaFields.
- Double-check the file format required by your drone brand before transferring — KML for XAG and DJI Pilot 2, Shapefile for TopXGun.

XAG

- If holes or obstacles are missing after import, confirm the correct hole treatment (Obstacles vs. No-spray areas) was selected during export.

DJI Pilot 2

- Obstacles are not included in a Boundary export; account for no-fly zones manually during mission planning if needed.
- If the boundary doesn't appear in the library, confirm the KML file was copied to the root of the storage device before inserting it into the controller.

TopXGun

- Make sure the full **TopXGun** folder (not just the .shp file) is copied to the SD card — the shapefile set relies on its companion files in the same folder.