The Appia® service and FieldGenius®

Inspectors will love the Appia service integration with FieldGenius. Spend less time manually translating the data that's gathered by the rover in the field.

Things to know

FieldGenius only uses specific units of measure from the Appia service.

- Acre
- Linear Foot
- Square Foot
- Cubic Yard
- Linear Mile
- Square Yard
- Each

FieldGenius breaks down the following four geometric categories in order to calculate Appia project items:

- Area
- Linear Line
- Points
- Volume (stretch)

The rover will produce a zip file with a JSON file, which contains item information for the daily report, and a KML file, which includes location data for the items. This zip file can be uploaded directly to a Daily Report in the Appia service using the **Import FieldGenius** workflow, found in the top right corner of the **Item Postings** tab.

The Appia service can't accommodate items associated with worksheets. If an item with an associated worksheet will be sent to the rover, disassociate that item from the worksheet before you begin.

Begin in the Appia service

1. Open the item list for your under construction project.

2. Click **Actions** and select **Export Automap** to create the CSV file. The file includes only items with the supported measurement types.

3. Send the CSV file to the inspector.

Next is FieldGenius and the rover

Import the file into the software on the rover tablet, and use the software to take measurements and collect data about the items during the inspection process.
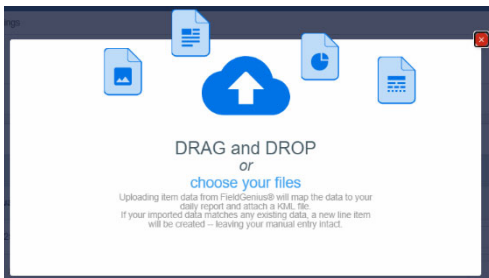
Once the item data is collected using the rover, export the results. Both a JSON file and a KML file are created in a zip file that needs to be unzipped before uploading into the Appia service. The JSON file contains the item information for the daily report, and the KML file contains location information.

If the tablet used with the rover has an internet connection, log in to the Appia service using the tablet and navigate to the Appia daily report.

Use a flash drive to export the file for uploading if there's no internet connection.

And back to the Appia service

Add or edit the daily report. The daily report functions are still the same, but this focus is on the Item Postings tab. If your daily report is already open, save it before importing the FieldGenius files.

1. Click the **Item Postings** tab in the daily report.

2. Click **Import FieldGenius**.

3. Choose the JSON file or drag and drop the file from File Explorer. Items are imported like it was a normal daily report.

4. Use the **Attachments** tab to upload the KML file.

Things to know

- If an item is split by multiple fund packages, the quantity that was calculated shows in the first package. The inspector will be able to change that quantity among the other fund packages.

- Items imported from the JSON file will not override items already posted and saved in a daily report. New line entries will be made for those items with the quantity coming from the rover.

- If the item ID or unit doesn't match project items, you'll get an error message. This will happen only if the user manually changed the CSV export or something with the rover.

- If a quantity is negative, you'll see an error message. The Appia service can't authorize negative quantities for the total quantity left.

- If you see an error message about applying quantity for an item, then that item most likely has a worksheet attached to it. Disassociate the item from the worksheet and import the file again.