

Adding Regions

To add a new region, add a new entry into the “regions” array within the “/ASSETS/CONFIGS/regions.json” file. All parameters are required unless stated otherwise.

Parameters available for new regions are:

- “name” – a short string used for the display name of the region.
- “description” – a medium length string used for a description of the region.
- “region_id” – a **unique** integer identifier for the region, easiest is to use one up from the previous entry.

Resources required for new regions:

No resources are required to add a region other than the information as specified above.

Adding Locations

To add a new location to a region, add an entry to the “locations” array in “/ASSETS/CONFIGS/locations.json”. All parameters are required unless stated otherwise.

Parameters available for new locations are:

- “name” – a short string used for the display name of the location.
- “description” – a medium length string used for a description of the location.
- “key_points” – a string array of key points about the region, displayed as bullet points in the application. There is no limit to the number of key points.
- “region” – the region_id to group this location under, specified in the “regions.json” file.
- “location_id” – a **unique** integer identifier for the location, easiest is to use one up from the previous entry.
- “is_pointcloud” – does this location contain pointcloud data? Boolean true/false.
- “filename” – the name of the folder the pointcloud is contained in. **Only required if “is_pointcloud” is true.**
- “z_offset” – an offset of the height of the pointcloud to the map. **Only required if “is_pointcloud” is true.**
- “videos” – an array of videos within the location. **Only required if “is_pointcloud” is true.**
 - “title” – a short string used as the title of the video.
 - “filename” – the filename of the video, used for video, thumbnail and gps data files.
 - “offset” – an array of X,Y,Z values to offset the video by.
- “gps” – the GPS position of the location. **Only required if “is_pointcloud” is false.**

Resources required for new locations:

No resources are required for adding a basic location other than the information specified above. However, if you wish to add videos or pointcloud data, follow the details below.

- Pointcloud data
 - To add a new pointcloud, download the Potree Converter. Copy your LAS file into the converter’s base folder and run the converter accordingly to convert the LAS into a Potree-useable format. Once done, copy the converted folder (without the HTML file) and place it in “\ASSETS\POINTCLOUDS\”.
- Video data
 - To add a new video, other than the information specified above, you also need the resources. This includes:
 - The video file, compressed to two variations via Handbrake (the Handbrake configurations can be found on GitHub in the “Resources” folder). The less compressed file must keep the original DJI name, while the further compressed version must keep the original DJI name and have “_mobile” appended. Both files should be MP4 format.
 - The GPS data, in both SRT and CSV format (from the DJI drone and Litchi respectively). These must be saved under the DJI video filename. SRT is required, however **CSV is optional**.
 - A thumbnail, this is ideally a low resolution image – typically the first frame of the video. This must be saved with the filename of the DJI video and a PNG extension.
 - All video resources must be placed in “\ASSETS\VIDEOS\” within a folder matching the name of the pointcloud data folder.

Adding Lines

To add new lines in the regional view, add an entry to the “lines” array in the “/ASSETS/CONFIGS/lines.json” file. All parameters are required unless stated otherwise.

Parameters available for new lines are:

- “from” – the “location_id” to start the line from, specified in the “locations.json” file.
- “to” – the “location_id” to end the line at, specified in the “locations.json” file.
- “text” – the short text string to display on the line annotation. **An optional parameter.**

Resources required for new lines:

No resources are required to add new lines to the regional view. You may want to use Google Maps’ measuring tool to work out distances between locations, if you choose that to be the annotation text.