

Point Cloud (Raw Data)

A **Point Cloud** entity stores raw spatial data collected from sources such as LiDAR or photogrammetry. Uploading point clouds into VoxelSpace is the first step toward visualizing and processing high-resolution terrain or structure data.

Upload raw LiDAR or scanned data as a point cloud. The system accepts LAS, LAZ, ASCII, or ZIP formats.
? Used for spatial analysis, terrain generation, and modeling.

Uploading a Point Cloud

1. Navigate to the **Catalog** section and select the project where you want to upload the point cloud.
2. Click the **“Add Object”** button.
3. From the dropdown menu, choose **“Point Cloud.”**

image.png

4. You’ll be prompted to enter the following details:

Field	Description
Item Name	A descriptive, readable name for the new point cloud entity.
Capture Date	<i>(Optional)</i> The original date the point cloud data was collected.
Horizontal Datum	The horizontal reference system used (e.g., WGS 84, NAD83).
Vertical Datum	The vertical reference system used for elevation or depth.
Projection	The coordinate projection applied to the dataset.
Horizontal Units	Units used for horizontal measurements (e.g., meters or feet).
Vertical Units	Units used for vertical measurements (e.g., meters or feet).

5. After entering the required metadata, click **“Choose Files”** to upload your data.

You can select multiple files during upload. The platform currently supports the following formats:

- **Text files (ASCII)** with comma- or space-separated values
- **LAS files**
- **LAZ files**
- **ZIP archives** containing any of the above formats

6. Once files are selected, click **“Create”** to begin the upload process.

You can monitor the upload progress from the **“Pending”** section within the selected project.

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