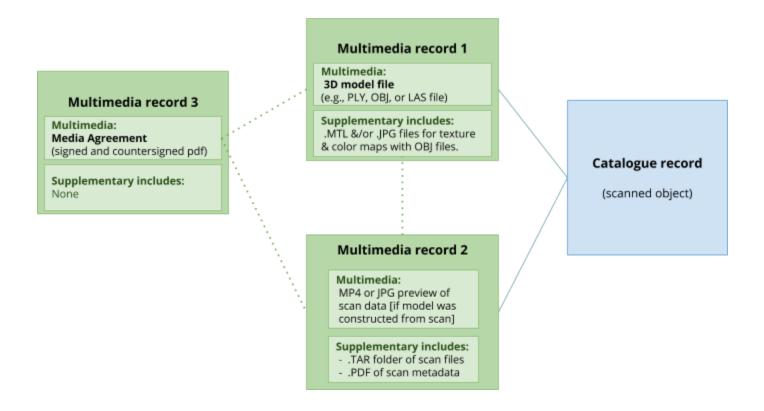
How to Catalog a 3D Model (PLY or OBJ) in EMu



Overview:

I) When can 3D Models be archived in EMu?

II) Make a Multimedia Record for a 3D Model

Multimedia tab

Details Tab

Supplementary Tab

Associations Tab

Security Tab

Save the record.

III) Attach Multimedia to the Scanned Object's Catalogue Record

IIIV) Upload a public Model to a Field Museum project on MorphoSource

Specimen record located

PLY uploaded to MorphoSource

Document MorphoSource URL in EMu

I) When can 3D Models be archived in EMu?

A 3D model can be archived in EMu using methods described here if all of the following conditions are met:

- The model represents a Field Museum specimen or object or related data (e.g., environmental reconstruction)
- The model is owned by the Field Museum -- i.e., its copyright and license are documented.

II) Make a Multimedia Record for a 3D Model

If the museum has rights to archive a 3D model, set up a Multimedia record for it like so:

1. Multimedia tab

On the Multimedia tab, fill in these fields:

(Required)

Title = Brief title, e.g. "[Specimen number or taxon] 3D model"

Description = A brief description of the 3D model.

Creator = Attach party record(s) for who constructed the model.

Role = "Digital Modeler" for creators of the model. Indicate role/s filled by any other creator/s. Use existing values from the lookup list → ■

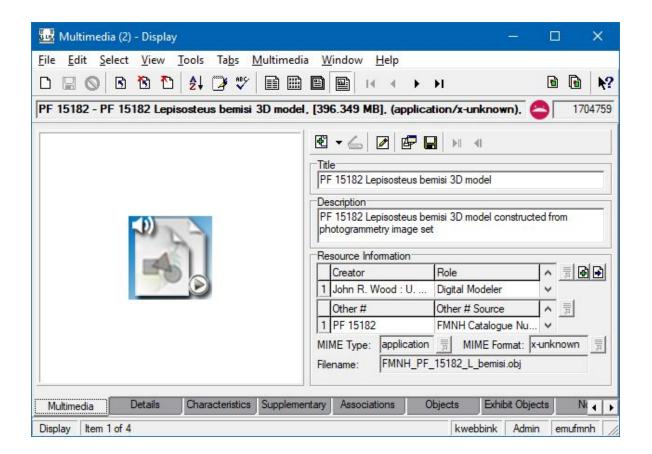
Multimedia [big white box] -- Add the 3D model file (e.g., OBJ, PLY, or LAS file)

(Optional, but If the scan is of an FMNH specimen/artifact this is required.)

Other # = Any catalogue/inventory/other numbers related to the 3D model.

Other # Source = What type of number, e.g., "FMNH Catalogue Number" for specimen #s or "MorphoSource Media No."

- Use existing values from the lookup list $ightarrow \overline{\sharp}$



2. Details Tab

On the **Details tab**, fill in these fields:

Subject/Keyword = "3D model", and any other relevant short tags for the model.

Date = Date the model was produced

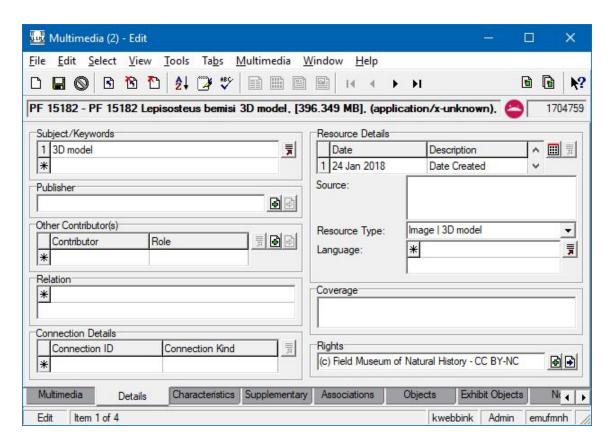
Description (of Date) = "Created" or other value from the lookup list.

Resource Type = Image | 3D model

Rights = Attach the Rights record for "© The Field Museum CC BY-NC" (Rights irn 46)

- Check first to make sure the museum owns the data.
- To license the data more strictly as "© Field Museum", use Rights irn 36, but consider the FMNH collections data norms

Source = Collection from which objects were scanned.



3. Supplementary Tab

On the **Supplementary tab**, add Supplementary files for the 3D model:

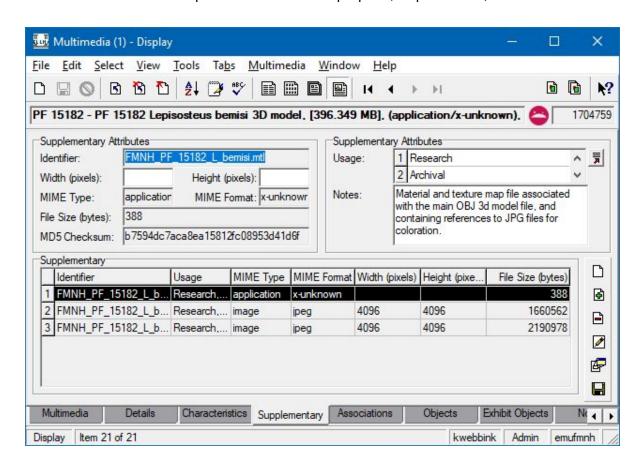
For example, OBJ geometry files can be accompanied by MTL and/or JPG files for texture/color mapping.

To upload a supplementary file:

- 1) Click the green plus near the lower-right of the tab.
- 2) Browse to the file, and upload it.
- 3) Save the Multimedia record to complete the upload.

For each supplementary file:

Usage = the file's intended/allowed uses. (e.g., "Research" and "Archival")Notes = Further explanation on the file's purpose, requirements, or how to use it.



4. Associations Tab

On the Associations tab:

Attach related Multimedia records if any exist, e.g.:

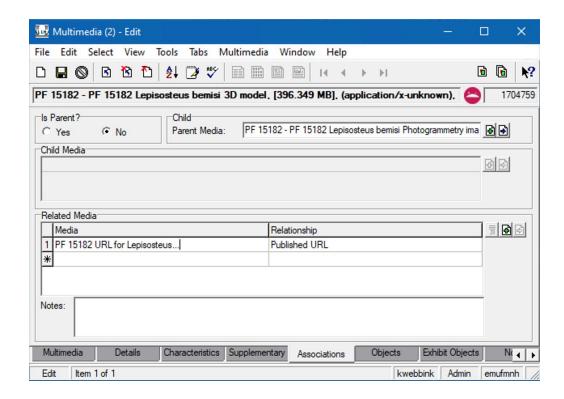
In the "Parent Media" field, attach:

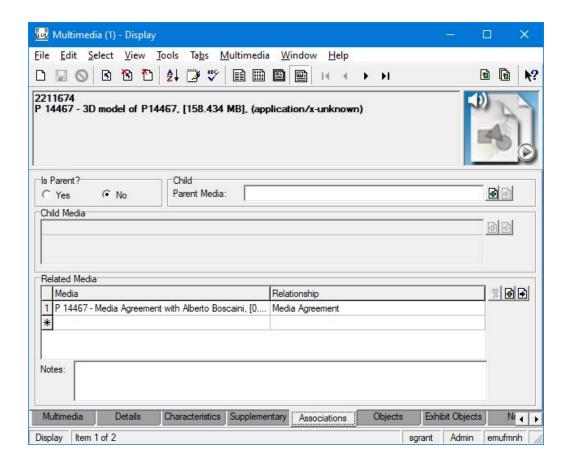
- Raw data used in the construction of this 3D model (e.g., CT or LIDAR scan dataset, or Photogrammetry image set)
 - How to catalog CT Scans in EMu
 - Images derived from this 3D model should have this record as their "Parent Media." They will then display in the "Child Media" field.

In the "Related Media" table, add:

- URL for published model hosted in an external repository (e.g., MorphoSource)
- Alternate versions of this Model
- Media Agreement (pdf)

Media = Attach the related Multimedia record hereRelationship = What is the related media relative to this record? (e.g., Published URL, Media Agreement)





5. Security Tab

On the Security tab, fill in these fields:

Publish on Internet = Yes (if ready/licensed to publish)

- Check first to make sure the data is not embargoed.

Department = [Name of Your Department]

6. Save the record.

III) Attach Multimedia to the Scanned Object's Catalogue Record

IIIV) Upload a public Model to a Field Museum project on MorphoSource

On MorphoSource.org:

- 1) Specimen record located
 - a) Cross-check OccurrenceID (UUID)
 - b) Attached to relevant Main Field Museum Project
 - c) Ownership of specimen record assigned to Field Museum Project
- 2) PLY uploaded to MorphoSource
 - a) Attach to specimen record
 - b) Include/check citation text
- 3) Document MorphoSource URL in EMu
 - a) Set up a Multimedia record for the MorphoSource URL following these steps: https://docs.google.com/document/d/18HEldcllrJTtFRa-sUOzKzuF6NJZ2m3Qpl7BCb3

 Vp3l/edit#heading=h.wlc5apvjsw76
 - b) Add the MorphoSource ark ID to the PLY Multimedia GUIDs