

Manage Part Revisions

Manage, control and update Major, Study and Library Part revisions using the Part Library.

About Part Library and Revisions

The Part Library is an integral part of data management and revision control within the Part Browser.

Part Library

By default, a Part Library is generated when the Part Browser is enabled. There are two modes:

Unmanaged	Local file management
Managed	Uses the Part Library

The default Part Library is located at <user home>\AltairLibraries\2022.2.

The Part Library serves as a centralized library of HyperMesh parts, which in turn facilitates the collaboration between simulation teams both locally and abroad.

You must be connected to a Part Library to access all Part Library related options.

Parts without a UID cannot be saved to the Library. Considering this, the UID field in the **Save Representation** dialog is user editable.

Revisions

In the Part Browser, the Revision column displays the Major revision, Study revision, and Library Part revision. All of the appropriate workflows have entry or access points to the part library, enabling quick and easy access to previous revisions or simply generating new revisions.

Major Revision	Depicts a change or set of changes that have been finalized and released for further review. In most cases the Major Revision is mapped to the PDM Revision, but you can modify it.
Study Revision	Created locally to track experimental changes or prototyping changes that may or may not be published. The purpose of the Study Revision is to manage design and prototype exploratory concepts. You can modify the Study Revision.

Library Part Revision

Locally, published revision within the Part Library. You cannot modify the Library Part Revision. The library revision is incremented each time you save a part representation.

You can review and edit a part's Major Revision, Study Revision, and Library Part Revision in Entity Editor.

Part Assemblies/Parts

LeftRail_A_000433_Safety

LeftInner_A_000434_Safety

LeftInner_A_000434_Safety.c01

LeftOuter_A_000435_Safety

LeftOuter_A_000435_Safety.c01

RightRail_A_000436_Safety

RightInner_A_000437_Safety

RightInner_A_000437_Safety.c01

RightOuter_A_000438_Safety

Right_Outer

CenterRail_A_000426_Safety

CenterRail_var1_A_000427_Safety

CenterInner_A_000428_Safety

CenterOuter_A_000429_Safety

CenterRail_var2_A_000430_Safety

CenterInner_var2_A_000431_Safety

CenterOuter_var2_A_000432_Safety

LeftRail_A

LeftInner_A

LeftOuter_A

RightRail_A

RightInner_A

RightOuter_A

CenterRail_A

CenterRail_var1_A

CenterInner_A

CenterOuter_A

CenterRail_var2_A

CenterInner_var2_A

CenterOuter_var2_A

A

A.-3

A.1.1

A

A.-3

A.-2

A

A

A.-1

A.-1

A

A.-1

A.-1

Common

Common

Crash 5mm

CAD

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Name

Value

Name

LeftOuter_A_000435_Safety

ID

24

Color

UID

LeftOuter_A

Include File

[Master Model]

Major Revision

A

Study Revision

1

Library Revision

1

Position

Figure 1. Revisions for the LeftOuter_A_000435_Safety.c01 Part.

Major Revision = A (mapped to the PDM revision, user editable), Study Revision = 1 (can be any letter or numerical value, user editable), Library Part Revision = 1 (library version, not editable)

Register and Connect Libraries

Register and connect to new libraries of your choice.

A default Part Library is generated when the Part Browser is enabled, and is located at <user home>\AltairLibraries\2022.2.

1. In the Part Browser, right-click and select **Library** > (and then) **Libraries** from the context menu.
The **Libraries** dialog opens.

2. Register new library.

- a. Click **+**.
- b. Select Library type.
 - Local
 - Shared (see PostGres installation for a shared Library)
- c. Enter Library host/port.
If you are working with a shared Library, enter a Library port.
- d. Enter a Library Name and Library Path.
- e. Click **Add**.

3. Disconnect currently connected library.

Before you can connect to a new library, you must disconnect from the currently connected library.

- a. Select the currently connected library.
- b. Click **Disconnect**.

4. Connect library.

- a. Select a disconnected library.
- b. Click **Connect**.

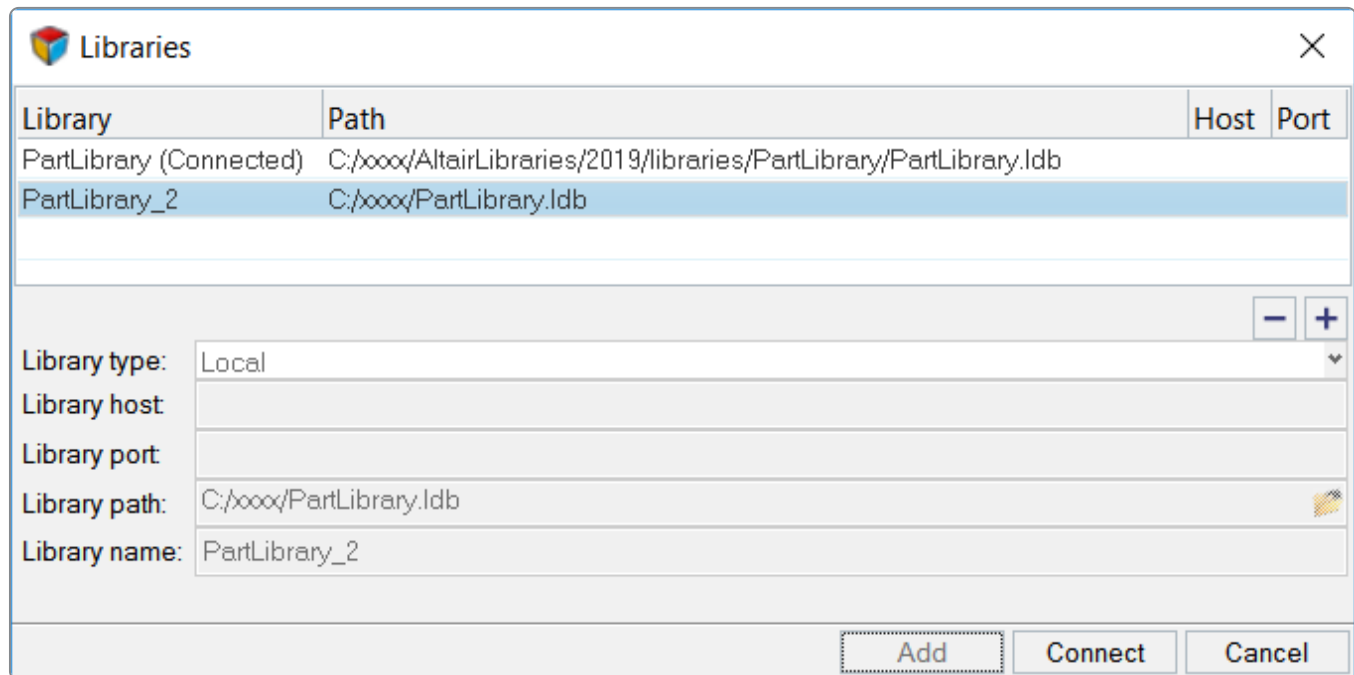


Figure 2.

Sync Library Revisions

Sync the in-session version with the latest, available version in the Part Library.

If the version available in the current session is out of sync with the Library reversion, use Sync to update the session version with the Part Library version.

Before you can sync library revisions, you must Register and Connect Libraries.

In the Part Browser, right-click on a part/part assembly and select **Library** > (and then) **Sync** from the context menu.

Edit Study Revisions

Study Revisions are a way to explore design space, and can be promoted to a Major Revision as required.

Assign and edit Study Revisions in the Entity Editor.

1. In the Part Browser, select a part/part assembly.
2. In the Entity Editor, edit the Study Revisions field.