Monolithic vs. Dynamic Viewer

Both Monolithic and Dynamic Viewers show a 3D model in Aras Innovator by rendering 3D component geometries stored in viewable SCS files. The difference between them is in the following:

- Which 3D models they can show.
- How they populate the view.
- What limitations they have.
- What functions they offer.

The Monolithic Viewer is the core 3D Visualization functionality and a prerequisite for the Dynamic Viewer. It can show a static 3D model of a component or assembly. Technically, this Viewer shows one viewable SCS file attached to a given component. In an assembly case, such a file is created from the files attached to all sub-assemblies and parts included in this assembly when it was loaded into the Viewer. The shown 3D model is a static assembly view because it cannot contain geometry changes to components made after the assembly view file had been created. Thus, the Monolithic Viewer features basic functionality for viewing the 3D model, isolating, and hiding assembly components.

The Dynamic Viewer provides optional 3D Visualization functionality in addition to the Monolithic Viewer. It can show a dynamic 3D model of an assembly only. Technically, this Viewer shows multiple viewable SCS files attached to all sub-assemblies and parts included in this assembly when it was loaded into the Viewer. Since a given model is a set of SCS files, displaying product manufacturing information is not included. The shown 3D model is a dynamic assembly view because it can contain geometry changes to components made after the assembly view file was created according to various structure resolutions: Latest, Released, and so on. Thus, in addition to the functionality included in Monolithic Viewer, the Dynamic Viewer has capabilities for manual geometry transformations and annotations. Aras Innovator Admins can also customize what content is displayed and how it is displayed in the Dynamic Viewer. Such customization is beyond the scope of this User Guide.

This Guide describes both Viewers in detail in the corresponding sections.