Alibre Design 2018.2

Critical(!) Updates

Windows 10 Fall Update Critical Bug Fix

- Microsoft's Fall Update for Windows 10 introduces a bug to Application.VisualStyleState that causes the ribbon to become unusable when a File > Open, File > Insert, or File > Save dialog is shown. Alibre presented the bug to Microsoft, and Microsoft acknowledged the bug and plans to fix it. However, no release date is currently available for this fix from Microsoft.
- Alibre has implemented a stopgap patch that circumvents Microsoft's bug. This results in a slight modification of the appearance of the Alibre Design window by forcing the Windows Vista Glass appearance off.
- **If you install the major Windows 10 Fall Update without getting Alibre Design 2018.2, you will be unable to use the software.**

Alibre Atom3D

New Features

- **Helical Boss** and **Helical Cut** have been added to Alibre Atom3D

Import/Export

- The 2018 versions of DWG and DXF are now available for import/export.

Keyshot 8.x for Alibre Design

- Keyshot 8 is now available.

Performance

- For large assemblies, we've made several changes that should improve SaveAs/SaveAllAs dialog interaction performance significantly. Other changes should help improve assembly loading (open) performance.
- Drawings of complex assemblies can now be opened faster. Optimizations for assemblies with many constraints and configurations now improve drawing file load times.

Bug Fixes

- A bug was fixed that occasionally prevented the editing of External Threads.
- A bug that caused the dimension style in-place editing menu in 2D drawings to have overlapping input boxes when the Fit option was selected has been addressed.
- A bug causing an exception during first-run of the Script overlay if the ribbon is disabled has been fixed.
- A bug that caused 2D drawing export to DXF to fail in some cases due to a centerline issue has been fixed.
- A bug causing some add-ons to have issues if the ribbon is disabled has been fixed.
- A bug when overriding the dimension value on the in-place editing menu in 2D drawings that caused the style to also be overridden has been fixed.
- A bug causing a Disposed Cursor Error exception after switching color schemes has been fixed.
- A bug causing issues with new View insertion in 2D drawings when the default units are in Feet and Inches has been fixed.
- Several Alibre Script bugs were addressed.

Misc

- The last-used export type is now remembered between sessions. For example, if you tend to export STL files a lot, you no longer have to select STL as the export format after reopening Alibre Design / Atom3D.
- New APIs to hide reference geometry such as reference planes, axes, and points.
- The Computer Name of the licensed machine will be passed to the Alibre licensing server. This makes it easier for you and for support to figure out which machine needs to be decommissioned if you have a licensing issue. This will replace the "DeviceID" that is currently used, which is a random string of characters.
- A Partner Code license type has been introduced. This does not affect customers.
- A string update in context menus in 2D drawings for consistency
- A German language dialog has been modified.
- Modified some PDF publishing strings to be more clear
- Restoring a package file now auto-scrolls the Windows Explorer dialog to show the default folder being used during target folder selection

Alibre Script Updates

- Added find/replace.
- Enabled SQLite3 support.
- Added support for show/hide of design planes, axes and points.
- Fixed bug that caused an error when closing dialog windows.
- Added support for activating configurations of parts and subassemblies inside assemblies.

- Fixed selection bug.
- Fixed missing Python libraries bug.
- Added Sketch.ToXml(), Sketch.FromXml(), Sketch.SavetoXml() and Sketch.LoadXml().
- Added Sketch3D.ToXml(), Sketch3D.FromXml(), Sketch3D.SavetoXml() and Sketch3D.LoadXml().
- Script-based dialog windows now have a selection system that more closely matches the built in dialogs in Alibre Design.
- Script-based dialog windows now always highlight the focussed input.
- Added button to preferences dialog to delete saved user data for Alibre Script.
- 2D Sketch functions that add a Bspline now return a Bspline object.
- Added GetPoint() to 2D Bspline object, allowing evaluation of a Bspline at any point.
- Added Length and SubDivide() to 2D Bspline object.
- Added Length, Subdivide() and SubdivideGetNormals() to BSpline3D.
- Added GetPointAt() to 2D Bspline object.
- Added GetPointAt() and GetNormalAt() to 3D Bspline object.
- Hovering over script tab now shows path and filename of script.
- Added Polyline3D, CircularArc3D, Line3D, PolylinePoint3D.
- Added Sketch3D.Figures to query the parts of a 3D sketch.
- Added constructor for Polyline.
- Added support for passing parameters to scripts from the console.
- Added support for running a specific script from the console.
- Added Sketch.GetSurface to obtain the plane or face that the sketch was created on.
- Script-based dialog windows now allow multi-selection of faces, edges, vertices, points, planes, axes and sketches.
- Added context menu to script tabs.
- AlibreScriptVersion global variable changed from major.minor as real to build number as integer.
- Added auto indentation in editor.
- Added tab/space options.
- Console now shows Alibre Script build number.
- Added Part.ExportRotatedSTL().
- Added input changed callback to options dialogs.
- Added ability to enable and display dialog inputs.
- Added callback to options and utility dialogs to set up the user interface after dialog creation, e.g. enable/disable items based on current settings.
- Added STL Exporter example script to allow export of rotated STLs for 3D printing.
- Added Part.GetUserData() and Part.SetUserData() to store user data in part files.
- Added Assembly.GetUserData() and Assembly.SetUserData() to store user data in assembly files.
- Code completion now shows enum values.
- Added some missing classes to code completion feature.

- Fixed bug that caused script-based dialogs to not always be on top of the Alibre Design window.
- Fixed bug that caused cross-contamination of python environment between part/assembly sessions when using the Windows class.
- Added Part.SaveSnapshot() and Assembly.SaveSnapshot() to save images of parts and assemblies.
- Now requests Windows perform a thumbnail refresh before saving a thumbnail of a part or assembly.
- Added Part.GetFeature()
- Added Feature.SetColor(r, g, b)
- Added Part.Select() to select edges and faces
- Added IGES and SAT exports of parts.
- Added export options for assemblies.
- Added part exporter example script.
- Added file copier example script.
- Added Part.Selections and Assembly.Selections to get current selections.
- Added option to allow user to disable saving of layout and scripts to part and assembly files.
- Added option to set and reset the default layout.
- Added BIP export for parts and assemblies.