

Release History



Visicon Smart BIM Tools

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Release 1.0

Initial release.

Release 1.1

- Corrected known bugs.
- Improved Model Comparison operation.
 - Added XLSX export option to Model Comparison operation.
 - Added Import with Issues to Model Comparison operation.
 - Improved Model Comparison object matching and reporting in UI.
- Enhanced capabilities for model merging, updating and alignment.
 - Now support merging and updating of VXF files containing multiple models.
 - Added model-specific options to merge, update and align.
 - Store manual alignment data and give option to apply to newly imported models when updating.
 - Give new options to apply model alignment when updating models.
 - Simplified alignment widget.
- This version now creates separate models within Visicon when exporting linked models from Revit.
- Extended tendon modeling logic in Visicon when importing INP files.
 - Added tendon end color properties.
 - Added tendon end angle properties and adjust anchor splay using these values.
 - Automatically select bonded vs unbonded tendon system.
- Added the User Guide and Getting Started Guide to the Windows start menu.
- Relaxed reliance on AVX instructions to support older CPUs.
- Added more details to clash and clearance operation issues.
- Added option to define custom variables for Inventory feature.
- Refined ETABS E2K file support.
 - Support greater number of frame section types.
 - Reason about cardinal insertion point for all component types.
- Added cancel button for computationally intensive Operations.

Release 1.2

- Corrected known bugs
- Added Revit 2020 support
- Implemented improved Revit Plugin for versions (2015 – 2020)
 - Simplified UI
 - Added immediate loading to view export options
 - Support for user-editable export profiles
 - Can now export components on specific view only
- Report Top Level assignment when using Spot Elevation on component
- News dialog now opens at startup when new news available
- Improved component compression in VXF file
- Added basic/advanced shading option
- Provided new navigation option that emulates Navisworks Walk
- Added walk movement and walk rotation speed settings
- Rectangular Select navigation mode now emulates Revit navigation style
- Allow alignment without using widget by selecting components only
- Added round(x) and nearest(x,y) expression functions to allow variable rounding in reports and expressions
- Now support ability to add new custom parameters to components in model
 - Add new parameters using right-click Insert option under Object Properties Parameters/Family tabs or Project Browser Family panel
 - Define units of new parameter
 - Automatically calculate value of new parameter using an Expression
 - Use Insert Variable option to select from a list of available parameters and expression functions
- Project Browser Parameters panel has new unit column
- Added “Modified Only” variance option for Variance Reports and Operations
- Each model in a Visicon project now has an automatic selection filter in the reports and operations filter options pull-down, eliminating the need to write separate filters
- Added component-type Boolean Difference mode for cases where component IDs may not match
- Added new Low Memory Mode option in Project Browser and Revit Plugin.
- New Save as External option was added to File menu
 - Visicon components can now be exported in OBJ generic 3D object file format for further re-processing and import into other programs
 - File menu option saves OBJ as world-space meshes
 - Right-click option saves OBJ as local space mesh
 - File menu save as OBJ option will save selection or entire project if no selection

Release 1.3

- Corrected known bugs
- Implemented object snapping option that can be used with markups and measurement – each can be further refined to focus on points, edges, intersections and angles
 - Surface
 - Centerline
 - Gridline
 - Clip Plane Sections
- Enhanced 2D markups with free-form Pen function
- Added new fonts for text markups
- Simplified Revit plugin user interface
- Added resolution setting to Save Screenshot function
- Improved report formatting for XLS and PDF formats
- Added ability to restrict Inventory (Quantity) Reports to components visibly shown while using clip planes. Select option to “Consider Clip Planes” = Yes.
- Added Table of Contents Report
- Added Project Information Report
- Added Component Matching report that lists column attributes for two different models that are expected to represent the same project
- Extended measurement features by adding volume and count options
- Introduced flexibility of letting user force 3D markups and measurements to always be on top and not scale
- Variable inputs can now support optional tolerance setting, e.g., “Volume @ 2%”
- Variables inputs can now support optional precision parameter with units, e.g., “Length @ 3mm” or “Length @ 0.01”
- Created new 3D markup Marker object type
- Improved Clash Check Operation
 - Option to include Contact Tolerance, Penetration Tolerance, and Penetration Tolerance at Extremity
 - New option to auto-group issues associated with the same affected component
- Improved Boolean Difference Operation by adding options to detect Added, Removed, Moved and Changed geometries
- USB-based licenses are now locked to the individual USB key and can be moved from computer to computer without requiring a new activation
- To support faster setup of trial licenses, activation requests can now be requested without the need for a purchase code

- New News feature is now active and will initiate a new interface with up-to-date news whenever new content is made available by Visicon
- Variance Operation and Report now support ability to check for multiple variables at one time – quantity and parameters
- Added “=expression” support for component properties
- Added ability to open and import any Visicon compatible file (except for point clouds) into Revit as a generic 3D mesh object
- New dynamic Revit component selection option from within Visicon
- Extended ETABS E2K support to read a more complete set of non-geometric component parameters

Release 1.3.1

- Corrected known bugs
- Extended capabilities to support special language characters in:
 - HTML and PDF reports
 - Expressions
 - Revit export
- Improved parameter naming when encountering multiple, similar parameters
- Improved compression algorithm
- Increased number of decimal places displayed for measurements

Release 2.0

- Corrected known bugs
- Introduced new Standard product tier
- Revit 2021 compatibility
- Extended support for 100% of ETABS section types
- Automatic 30-day trial option
- New, flexible licensing options
 - Cloud network license
 - Self-hosted network license
 - Online system locked license activation
- Improved zooming behavior for close-up conditions
- Improved navigation performance for when accessing Visicon through remote desktop
- Simplified user interface by removing unused collaboration ribbon
- Added "" to expression syntax – used to represent “ within text variables

Release 2.0.1

- Added new Component Matching operation
- Improved mouse scrolling speed when in Free Navigation mode
- Added new Function **Equals(a,b,tolerance)** for expressions that allows user to specify an equivalency test for a component variable within a given tolerance – tolerance is specified in units of variable.
 - Example usage: Equals(Length,5ft,1)
 - The above expression checks for lengths within 1ft of 5ft
- Added new Function **Equalspercent (a,b,tolerance)** for expressions
 - Example usage: Equalspercent(Length,8ft,20)
 - The above expression checks for lengths within 20% of 8ft
- Added **Approx Equals Tolerance %** for Expressions in Checking Rules
 - Example usage: Length ~= 10ft

Release 2.1

- Corrected known bugs
- Overhauled navigation to give user better and more intuitive options
 - Previous Free option is now set at Default mode when opening new models
 - In Default navigation mode, user can switch rotation point by selecting any component
 - Zoom is directional and centers in on the cursor's location
 - Previous Orbit and Walk mode navigation options are retained
- Extended clip plane manipulation to include rotation and translation of widget
- Added new Clip Box feature to isolate selected components using 6 automatically generated clip planes – invoke using right-click mouse option
- Added F1 Help option to icons in Revit plugin
- Improved Component Matching Operation
 - New Center Tolerance option for comparing components with irregular geometries
 - Paired components are matched at a mid-height section
 - The original Centroid Tolerance option calculated the actual centroid of a components' section
 - The Center is calculated as the center of the bounding box (aligned with global X and Y coordinates) of the components' cross section
 - Added section approximation for irregular shapes
- Refined Boolean Difference Operation to explicitly create Added/Removed sections for all changes, not just those that were true Boolean geometries
- Enabled alignment snapping option when Manually moving components or models
- Added new global Functions that help match strings from different components in the Component Matching Operation
 - **ReplaceText(Name, "a", "b")** replaces the "a" string with "b" string in the component variable Name
 - Example usage: ReplaceText(Description, "*", "x")
 - This would switch the Description text "W14*122" to "W14x122"
 - **UpperText(Name)** switches all characters in the Name component variable to upper case
 - Example usage: UpperText(Name)
 - This would switch the Name text "Column 1" to "COLUMN 1"
 - **LowerText(Name)** switches all characters in the Name component variable to lower case
 - Example usage: LowerText(Name)
 - This would switch the Name text "Column 1" to "column 1"

- Added new variable Functions that help match strings from different components in the Component Matching Operation
 - **Name.Replace(“a”, “b”)** replaces the “a” string with “b” string in the component variable Name
 - Example usage: Description.Replace(“*”, “x”)
 - This would switch the Description text “W14*122” to “W14x122”
 - **Name.MakeUpper()** switches all characters in the Name component variable to upper case
 - Example usage: Name.MakeUpper()
 - This would switch the Name text “Column 1” to “COLUMN 1”
 - **Name.MakeLower()** switches all characters in the Name component variable to lower case
 - Example usage: Name.MakeLower()
 - This would switch the Name text “Column 1” to “column 1”
- Implemented silent installation option that system administrators can use to automate the rollout of Visicon to end-users – contact info@visicon.com for instructions on how to utilize this capability