Release Notes

Javelin® software v6.8

Release date: July 2026

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Description of Changes

For more detailed information, refer to the help file included with the program. To access the help file, click the Help button in the quick access toolbar.

Industry Foundation Classes (IFC) export file

Save your Javelin model to an IFC file to make it easy to share your model across the broader BIM ecosystem. Industry Foundation Class (IFC) format is an open file format supported by many third-party applications. Javelin follows the Building Smart standard for defining the model. An IFC file allows you to take your Javelin model into other tools without redrawing. Coordinate across teams more efficiently, combine inputs from multiple platforms, and get a clearer picture of the full structure.

Materials on Demand

Keep your Javelin environment up to date with the latest products—without requiring a full software upgrade. When new materials are introduced, Javelin can detect and inform you when version-compatible updates are available to download. Update then or be reminded later to update at your convenience, ensuring your database and design engine stay current as products evolve. This flexible approach helps you respond faster to product changes and continue designing with confidence using the most up-to-date material options available for your installed Javelin version.

Miscellaneous

- Design fasteners for multiple member (plied) sloped beams.
- Assign Trace Objects (i/e. created from DXF, DWGs, or PDFs) to layers.
- Select Roof Beams as supporting objects for Automatic Load Reference Areas (LRAs).
- Display TJ Pro Rating averages on Level Notes for Trus Joist SCL products.
- Updated Advanced Selection tool with additional filtering and other enhancements for clarity and consistency.
- Performance of moving labels in Plan View has been enhanced.
- HTML is now the default file type when Exporting the 3D Model.
- When roof joists are modeled in a way that triggers an R7S detail symbol, the strap that is listed in the joist's Member Report now matches the strap added to the Connector Material List.
- Multiple bearings lengths are now used to perform the Point Load Near Support check during design using NBCC building code. Previously we used the worst case of the point loads on the member for all checks.
- Performance for designing members has been enhanced.
- Hanger design has been updated to use the Simpson Strong-Tie online design engine allowing for more responsive product updates.
- Hanger design has been updated to include the newest product offerings for MiTek and Simpson Strong-Tie.

Material Changes

Materials added:

- 9 ½" TJI 560 for design in IBC
- 1 ½ 1.3E Strandguard TimberStrand LSL
    - 6 ¼" depth
    - 8 ¼" depth
- 2 x 4 MSR 1650 Framer Series Lumber
- M-29 Framer Series Lumber in these sizes: 2x8, 2x10, 2x12
- Pro Series Lumber in No.1 and No.2 grades in these sizes: 2x4, 2x6, 2x8, 2x10, 2x12
- Simpson Strong-Tie hangers for BA, HU, HUAC, OHU, and LF series (HUAC is a new series)

Materials removed:

- M12 Framer Series Lumber in these sizes: 2x4, 2x8, 2x10, 2x12
- M-29 Premium Lumber in all the sizes: 2x8, 2x10, 2x12
- Simpson Strong-Tie hangers in WP, BA, HBm and BA series

Materials updated:

- Hem Fir Dimension Lumber design values for NBCC
- Glulam design values (Emin)
- Parallam PSL design values (Plank)

Defects Fixed

The following defects were fixed in version 6.8 of Javelin software:

- Now the Analyzer Issue warning will trigger less often when loads are transferred from beam to objects below through bearings.
- Now loads passed through walls are transferring properly to joists when the joist is butting to another joist and both joists are beveled cut at the support.
- Now CS and W Construction Detail Symbols are displayed after member design when a load change or modeling update requires them. Previously these detail symbols wouldn't always be placed when another CS or W detail symbol existed on the same member. In existing jobs, these detail symbols may revert to their default positions on design, but that will only happen once.
- Now Extend by Length is retaining selection after completion.
- Now Font Styles are being respected for Drawing Notes in Layout Sheets.
- Now Save As is creating a new JobID for the new job file used with PMDX export to Stellar software.
- Now able to generate Member Reports for Roof Beams that are supported by a Post member type.
- Now able to change properties in the Property Grid by typing without inadvertently starting commands using shortcut keys.
- Now Use/Occupancy property for Floor Containers is being retained in Job Properties and Schemes.
- Now Viewports are retaining the location of the model when changing scale.
- Now the Javelin database will update even when the login for the database was created for a different server and when two databases are connected to Javelin (one local and one networked).
- Fixed multiple crashes:
    - Crash closing 3D View (Optiframe.UI.DrawingView.IsVisible)
    - Crash changing properties for floor members (Optiframe.EntityManager.AccessoryManager.DoesTrimStructureOverlapAnotherAccessoryOnThisEnd)
    - Crash editing joists with 3D open (System.ThrowHelper.ThrowInvalidOperationException)
    - Crash inputting Roof Members (Beams or Joists) and one of the lines selected for ends is wonky (Optiframe.Geometry.LineSeg.EquivalentSegment)
    - Crash printing a Layout Sheet with a Projection Viewport to PDF using the system PDF writer (Optiframe.UI.EyeShotModel3D.InitializeSettings)
    - Crash saving Reports as a PDF when overwriting an existing file and that file is open (System.IO.__Error.WinIOError then being used by another process)
    - Crash setting Beam Elevation if the beam's old reference object was deleted (Optiframe.Entity.BeamEntity.Optiframe.ServiceInterfaces.ILinkToEntity.get_LinkToEntityHeight)
    - Crash Splitting at Location for Ceiling Joists and Roof Joists and selecting an invalid point (System.Collections.CollectionBase.OnValidate)
    - Crash Breaking at a Location to split a wall (Optiframe.Geometry.FPoint..ctor)

- Crash inputting joists deeper than the Floor Container using Defined Area (Optiframe.EntityManager.FloorSupportManager.PassPreconditionMemberDepth)
- Crash Splitting at Location for a Fascia member and selecting the same location twice (Optiframe.Geometry.Plane3D..ctor)
- Crash Splitting at Location for multiple ply roof members and selecting the same location twice (Optiframe.Geometry.Plane3D.Normalise)
- Crash double clicking on blank space in a Layout Sheet (DevExpress.XtraBars.Docking2010.DragEngine.MouseEventSubscriber`1.RootUIElementMouseDown)

System Requirements

Minimum System Requirements:

- Processor: Intel® Core™ i5 (6th generation) 2.3 GHz base speed or better
- L3 Cache: 6 MB
- RAM: 4 GB DDR3 (8 GB for Multi Family Design)
- Graphics: 1080p (Full HD)
- Mouse: Scroll Mouse
- Storage: 50 GB free storage (average 6,000–8,000 jobs)
- Supported Operating Systems: Microsoft® Windows® 11 64-bit

Notes:

- The software only supports the English language version of Windows.
- During installation, maintaining an existing instance can require more space due to use of temporary files. We suggest increasing free storage space on your system if you are having difficulty upgrading your instance.

Recommended System Requirements:

- Processor: Intel® Core™ Ultra 9 - 2.7 Ghz base speed or better
- L3 Cache: 24 MB or more
- RAM: 32 GB DDR5 or better
- Graphics: 2400p (4K) 8 GB VRAM dedicated graphics card or better
- Mouse: Optical Mouse w/scroll wheel
- Storage: 100 GB free storage (average 12,000+ jobs)

Note: Testing has determined that meeting or exceeding these recommended system requirements will provide the designer with improved software performance across a broad range of file sizes.

SQL Server

A minimum of SQL Server 2014 is required to run the Javelin application. If SQL Server 2014 or newer exists on the computer, it will be used for the Javelin database. When no valid version of SQL exists, SQL Server 2019 will be installed.

Microsoft Excel

A minimum of Excel 2007 is required to use the Export to Excel function. Microsoft Excel is not installed with the Javelin software.

Tips on Buying a New Computer:

When considering a new computer system to run Javelin software, here are some points:

1. Processor: Processors have the biggest overall impact on the performance of Javelin software. Select the best processor you can afford with the highest shared cache, fastest clock speed, most integrated memory, and highest available core count.

2. RAM: Buy the most RAM you can afford which is compatible with your processor. This is typically the cheapest option to increase hardware performance.

3. Graphics: Avoid integrated graphics for Javelin or any CAD application. Select a professional graphics card intended for use with CAD applications or gaming. High-end graphics cards may be a worthwhile investment for a designer who regularly works on large custom homes, multi-family and light commercial projects to improve "Plan View" navigation performance.

4. Hard Drive: Hard drive upgrades may help reduce the time to load or save a job but provide little overall improvement to Javelin software performance for most users.

Javelin Program Settings Which May Affect Performance

Undo – Redo Level: Changing this setting to "Off" can reduce memory usage as well as speed up performance. For example, turning off Undo-Redo during plot cleanup allows each label and hex move operation to complete sooner because an undo save is not performed with the move of each label or hex. However, when operating without the Undo safety net you may have to do quite a bit of rework if you accidentally make an unwanted change.

Save Preferences\Auto Save: Auto Save can make some operations take much longer than expected. Turning off Auto Save or increasing the Auto Save interval can reduce the amount of time you wait for an auto save to complete. The downside to these adjustments is that you may lose work if you forget to periodically perform a manual save.

View and Selection:

a. Dialog Settings: Changing this setting to "Always" can make the system seem slower as you are waiting for dialogs to display and close.
b. System\Prevent Label Collisions: Setting this to "Yes" can cause dramatic slowdowns. Never turn this on with large jobs.

Warnings and Messages: Choosing to show all messages can make the system appear slower as you are waiting for message dialogs to open and close. Customizing warnings to only display messages you want to see can improve perceived performance.

Walls\Wall Update\Auto Renumber: Setting this to "Yes" can have a negative impact on performance.