# SPIDA® CALC V2025 RELEASE NOTES

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## FEATURES & ENHANCEMENTS

### SIDED POLE SUPPORT

- SPIDAcalc now supports the analysis of sided poles. These poles can be configured in client editor.
- Poles now have an orientation and can be rotated.
- It is now possible to import and open some PLS library files for poles.
    - Not all pole configurations in these files will be imported into SPIDAcalc as PLS supports numerous options that SPIDAcalc does not. For example, only single tube or single section poles will be imported.
    - PLS libraries can be imported through the client file source panel or downloaded directly from the PLS servers.
- The stress capacity for hollow steel poles now follows the thin wall strength reductions outlined in ASCE 48-19.

### ANALYSIS AND LOAD CASE UPDATES

- Overrides for individual wires in a design can now be set to use initial, final without creep, or final with creep, regardless of the general setting of the load case.
    - This can be used to analyze primary wires under final with creep tension conditions while a new proposed attachment is modeled under initial tension conditions.
- Summary Icons are now displayed per Wire End Points for clearance case results in detailed analysis view.
- A new analysis check can now be enabled for insulator uplift. This will fail insulators that have a net upward force exerted on them from the attached wires. This check is reported within the regular insulator analysis result but is done independently and can occur at a separate wind direction.

### EARLY ACCESS FEATURES


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- Two new export options have been added as early access features. These are generally ready to be used by end users, but may still require some refinement for all use cases.
    - Export to iModel/iTwin: SPIDAcalc project layers can be exported to an iModel and viewed within iTwin Experience. Future integration and features are being actively worked on.
    - Export Profiles to CAD: A profile of multiple spans can now be exported to CAD. To do so, select any wire in the project, and the Profiles to CAD export will generate a CAD file with all the connected spans/locations that wire traverses. We expect to make changes and enhancements to this as we receive user feedback from this early access feature.
- SPIDAcalc now supports cross arm braces. Braces can be configured in client editor and added to a design similar to other components and equipment.
    - There are known limitations with cross arm braces within preconfigured assemblies, particularly when applying assemblies to multiple locations through the map view, or when the assembly contains multiple braced crossarms. These limitations will be addressed in the next release.

## Client Editor

- When defining the moment capacity table for a pole in client editor, the table can now be automatically generated from an input tip load value.
- Client files can now be saved in older versions or following older schemas, similar to how project files can be saved and exported to older versions.

## General

- It is now possible to set the height and class of a push brace in addition to the generic species.
- General improvements have been made to default assembly logic and input assemblies.
- Adjusted and optimized some font, size, and formatting of text in results viewer and detailed analysis view.
- Some dialog windows in SPIDAsilk are now resizable.
- General improvements made to the French translation of the User Interface.
- General optimization during file open process, particularly for projects with a large number of different communication bundles saved in the project.

## Security Updates


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- Where feasible, removed old unused dependencies, updated existing software dependencies to latest versions, and resolved various known vulnerabilities.

## Defect Fixes

### General

- CSA Maximum Wind case Updates:
    - New Max Wind Cases now have a default temperature of 15C instead of –20C. For existing load cases, this change will need to be made manually if the new 15C temperature is desired.
    - CSA Maximum Wind cases now inherit the same load factors that other CSA load cases have for the same grade of construction.
- The recently added custom setting depth option for poles in the client editor was not resulting in correct default setting depth when applying a pole to a design.
- NESC linear constants are now applied to all parts of a spacer cable instead of only to the tensioned messenger. This is to conform to the footnotes of table 251-1.
- Resolved rare race condition on project open where SPIDAcalc would open the new project without updating the currently active project name. This could previously inadvertently lead to overwriting the old project. This edge case was rare, and has been resolved.
- Resolved various licensing issues preventing SPIDAcalc from launching in some edge cases.
- Various other minor bug fixes and upgrades to dependencies.

## Restrictions

- SPIDAcalc client files and project files created in v2025 may not be compatible with older versions of SPIDAcalc.

## Caveats

- Opening a client file or project file from a previous version of SPIDAcalc may take longer the first time it is opened as it is converted to the new file format.
- Importing designs from a project saved in a previous version may take longer as it is being converted to the new file format.
- Client files converted from previous versions should be reviewed to verify that all settings and values appear as expected. New features added to the *Client Editor* should be reviewed and implemented according to internal practices.


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685 STOCKTON DR, EXTON, PA 19341

WWW.BENTLEY.COM

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