

# CSiPlant v9.0.0 Release Notes

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**Notice Date: 13-October-2024**

This document lists changes made to CSiPlant since v8.1.0, released 20-October-2023. Items marked with an asterisk (\*) in the first column are more significant.

## Design – Piping

### **Enhancements Implemented**

*	Ticket	Description
	9511	An enhancement was made adding B31.12-2023 as an available design code allowing the design of Hydrogen piping systems.
*	10508	An enhancement was made to the B31J implementation to reflect the updates in the 2023 version. The changes include: Updates to some of the equations calculating SIF and Flex factors. Addition of a modification factor that accounts for large aspect ratio ( $D/t > 50$ ) components (elbows, tees, reducers)
	10509	An enhancement was made, giving the user a new setting to control when to apply Note 3 from Table 1-1 of ASME B31J-2017 when calculating the flex factors for 90 deg bends and elbows that match the thickness of the adjacent pipes. For bends/elbows that satisfy this requirement, the flex factors $k_i$ and $k_o$ can be calculated as 1.3/h. For elbows/bends that do not satisfy this requirement, or if the design setting is to not consider Note 3, then $k_i$ and $k_o$ are to be taken as 1.65/h. The previous behavior was to not consider note 3 automatically, requiring user-specified flex factors. When older models are opened, the design setting will be set to not consider Note 3, therefore, previous results are not affected by this change.

## Drafting and Editing

### **Enhancements Implemented**

*	Ticket	Description
	10831	An enhancement was added to allow the user to select and deselect tees in the model based on their assigned tee type.

## External Import and Export

### **Enhancements Implemented**

*	Ticket	Description
*	10373	The CAESAR Neutral File import has been enhanced to provide more feedback via a series of import forms which include: (1) Input; (2) Parsing and Import Logs; (3) Import Results. 3D graphics of the CII model can be shown and elements that did not get successfully imported into CSiPlant can be identified. Clicking on the pipes and nodes will show data read from the CII file and any warning and error messages related to import. HTML report describing the content of the CII file can now be viewed directly on the import forms without a need to open the HTML file from disk as was the case previously.

## Installation and Licensing

### **Enhancements Implemented**

*	Ticket	Description
*	10095	The version number has been changed to v9.0.0 for a new major release.

*	Ticket	Description
*	10371	<p>An enhancement has been implemented to provide a new licensing option, "Cloud Sign-in" licensing, that utilizes user credentials to access licenses instead of activation keys. This licensing option can be selected when installing the software, and can be changed later by running the CSILicenseAssistant from the Windows Start menu or found in the CSILicensing subfolder of the CSiPlant installation folder. With this licensing option, user credentials will be requested when CSiPlant is first started, unless they have already been supplied in an earlier session of CSiPlant or another CSI software product that uses Cloud Sign-in licensing. User credentials can be obtained from the customer's IT or other department that manages software access. Cloud Sign-in licensing requires an active internet connection while running the software. A commuter-license option is available which allows checking out a license for a time period up to 30 days, subject to the user's company policy, for use of the software without an internet connection. Until the commuter license is checked back in or the time period expires, no other user will have access to that license. Customers can use the CSI Customer Center to manage which users have access to various CSI products and product levels through user groups. The CSI Customer Center also provides tools to view license usage. Access to these features in the CSI Customer Center is subject to permissions set by the customer's department that manages software access.</p>

## Analysis

### *Incidents Resolved*

*	Ticket	Description
*	10029	An incident was resolved where a model could not be re-run after analysis was cancelled during the run. Additionally, if the user is running both analysis and design and the analysis is cancelled, the design will also be cancelled.

## Database Tables

### *Incidents Resolved*

*	Ticket	Description
*	10080	The following issues related to display of tables have been resolved: (1) When filters were applied to the table, clicking on a row heading to display table row details might have displayed table row details for an incorrect row. (2) When exporting a table to which filters were applied to Excel, all rows of the table were exported as if no filter had been applied. Additionally, the action to display table row details has been changed from a single-click on a row heading to a double-click on the row heading.

## Drafting and Editing

### *Incidents Resolved*

*	Ticket	Description
*	10385	An Incident was resolved where selecting by pipeline could cause the program to crash and close. This issue was rare and occurred only with specific models.

## External Import and Export

### *Incidents Resolved*

*	Ticket	Description
	10354	The following enhancements and fixes were implemented for PCF import: (1) Added import of COUPLING and ELBOW-REDUCING items from the PCF file. COUPLING items are imported as straight pipes. (2) Fixed an issue with TEE-SET-ON items for which no optional SIZE attribute was specified for the CENTRE-POINT. Previously, CSiPlant handled this by initializing the CENTRE-POINT coordinates to the default zero coordinates instead of the coordinates read from the PCF file. The updated version ensures that correct coordinates are read from the PCF file.
	10565	An Incident was resolved in which exporting support reactions for a model with multiple supports connected to the same joint would export reactions only for the last support connected to that joint. The new behavior exports the total reactions obtained as a sum of reactions from individual supports connected to the joint.
	10798	An enhancement was implemented to import "ASCE/SEI 716" wind auto load pattern from SAP2000. Previously, the import of the "ASCE/SEI 716" wind auto load pattern was not supported and "None" auto pattern was created in CSiPlant.

## Results Display and Output

### *Incidents Resolved*

*	Ticket	Description
*	9585	An incident was resolved correcting the display units for piping material allowance in the design tables.

## User Interface

### *Incidents Resolved*

*	Ticket	Description
	9611	An incident was resolved where it was not possible to enter numbers with decimal comma to various forms and in the user interface when the machine's regional settings were using decimal comma as decimal separator.