

CSiPlant v10.0.0 Release Notes

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Notice Date: 27-February-2026

This document lists changes made to CSiPlant since v9.1.0, released 09-May-2025. Items marked with an asterisk (*) in the first column are more significant.

Analysis

Enhancements Implemented

*	Ticket	Description
*	9547	The rotation of link-element local axes with large displacements is now controlled by the P-delta factors defined for the link property. This new behavior only affects nonlinear static, direct-integration, and staged-construction load cases where the geometric nonlinearity parameter has been set to "P-Delta plus Large Displacements". Previously the local-1 axis was always oriented along the deflected line from joint I to joint J. Now the local-1 axis can be specified as determined by the rotation at joint I, the rotation at joint J, the deflected line from joint I to J, or a linear combination of these, all in direct proportion to the specified P-delta factors for the moment at end I, the moment at end J, and the shear-force couple, respectively. The behavior is specified separately for the local 1-2 and local 1-3 planes as part of the link-property definition. While the use the deflected line is appropriate for braces and truss-like members, the use of end rotations rather than the deflected line is better for gap elements, as well as for certain devices (like friction isolators), where the axial behavior does not change with shear deflection. Note that for zero-length elements, only the joint rotations are used. For one-joint links, the rotation at joint I is assumed to be zero. Previously no large-displacement effect was considered for zero-length or one-joint links. For all links, the local-2 and local-3 axes rotate about the local-1 axis with the average torsional rotation of the two ends, which was the previous behavior as well.

Design – Piping

Enhancements Implemented

*	Ticket	Description
*	10305	An enhancement was implemented to preserve design properties assigned to objects, design properties assigned to object properties, design request checks, and design request preferences when design code data (such as code standard, design code, or code edition) is changed in the design request definition. Previously, changing any of the design code data reset design properties and design request parameters to the default values for the newly selected design code, causing all previous assignments to be lost. With the new behavior, when design code data changes, design properties and design request parameters are initialized from the original design code values for any design properties or design request parameters that are shared between the original and the new design code. A new "Add Design Request" form was added, which enables users to specify design code data before adding a new design request. This ensures that the new design request is created with the most suitable default parameters for the specified design code.
*	11263	An enhancement was made to add ASME B31.3-2024 as an available design code.
*	11264	An enhancement was made to add ASME B31.1-2024 as an available design code.

Drafting and Editing

Enhancements Implemented

*	Ticket	Description
	11626	An enhancement was made to improve pipeline creation flexibility by allowing a valve, flange, or expansion joint to be used as the starting component when executing the Insert command. This capability is supported through the new insert type, Along Direction, which accepts a specified direction and length.

External Import and Export Enhancements Implemented

* Ticket	Description
7047	The import of CAESAR Neutral Files has been enhanced as follows: (1) Improved import of expansion joints: These are now imported as expansion joints rather than as links, as was previously the case. (2) Rigid elements with zero weight are now imported as rigid links. Previously, they were imported as valves. (3) The "CII Neutral File Import" form has been enhanced to include additional import options: - Users can now select which CII elements to import. - An option was added to draw elements in pipeline order, which is now the default setting, as it produces better results. Previously, components were imported in the order listed in the ELEM block. - An import option was added to display error messages when drawing pipes. - Separate colors were added to distinguish additional components, such as rigid links and expansion joints. - The default 3D view orientation now matches the default view in CSiPlant after import.
10229	An enhancement was made to allow the import of version 13 and version 14 of CAESAR Neutral Files.
11561	An enhancement was made to the import of CAESAR Neutral Files containing pipes with elbows specified at both the start and end, where the radius of the end elbow is too large to fit. Previously, the elbow would not be drawn, and an error message indicated that the adjacent pipes were not long enough to accommodate the elbow. The new behavior reduces the radius of the end elbow so that it can fit.

Installation and Licensing Enhancements Implemented

* Ticket	Description
11249	The following improvements have been made to sign-in licensing within the application. (1) The authentication process for sign-in licensing has been modified to now use the system browser on the client machine. This improves the sign-in experience by eliminating the connecting popup that was displayed on subsequent runs after signing in the first time. This change will require users to sign in to CSiPlant the first time this new version is run. (2) Personal Access Tokens (PATs) can now be used for scenarios where the normal authentication flow is not possible, such as for headless machines. (3) Remote checkout licensing is now available for dark-site or air-gapped machines that do not have internet access.
* 11387	The version number has been changed to v10.0.0 for a new major release.
* 11796	The cloud key licensing option has been removed from CSiPlant v10. All licenses will now use cloud sign-in licensing which is more flexible and secure.

User Interface Enhancements Implemented

* Ticket	Description
11759	An issue was resolved for the "Design Requests" form where deleting all design requests and then adding a new design request would immediately close the form. The "Included Design Calculations" section of the "Show Design Calculations" form has been enhanced to remain scrolled to the far left, ensuring that the checkboxes stay visible after their checked state changes. Previously, the content of this section was centered, which could have hidden some of the checkboxes.

Database Tables

Incidents Resolved

*	Ticket	Description
	7070	An issue was resolved where changing units on the Table Display form had no effect on the following spring hanger sizing and flange leakage check tables: "Spring Hanger Sizing - Summary", "Spring Hanger Sizing - Details", "Spring Hanger Installation Force", "ASME BPVC.VIII.1.UG-44 - Summary", "ASME BPVC.VIII.1.UG-44 - Details".

Drafting and Editing

Incidents Resolved

*	Ticket	Description
	10916	An incident was resolved where reducing elbows were shown incorrectly after they had been reversed.

External Import and Export

Incidents Resolved

*	Ticket	Description
	10388	An enhancement was made to improve the handling of the Restraint Connecting Node Number specified in the RESTRAINT block during the import of CAESAR Neutral Files. Previously, when the Restraint Connecting Node Number was specified also in the ELEMENTS block, it was directly used to generate the connectivity between the imported pipes, which could result in incorrect geometry due to portions of the model being created in incorrect locations. The improved handling now uses the associated Restraint Node Number specified in the RESTRAINT block when creating connectivity for pipes specified in the ELEMENTS block. This new approach results in correct geometry generation in CSiPlant.

User Interface

Incidents Resolved

*	Ticket	Description
	10917	An incident was resolved where minor elements of some forms were displaying incorrectly at higher monitor DPI/Resolutions