Perform3D v9.0.0 Release Notes

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This document lists changes made to Perform3D since v8.1.0, released 19-July-2022. Items marked with an asterisk (*) in the first column are more significant.

Analysis

Enhancements Implemented

*	Ticket	Description
	9090	The maximum number of parallel Analysis Series that can be queued has been increased from 32 to 50. If more than this maximum number is requested to be run, the first 50 will be
		queued and a corresponding message will be displayed. In addition, the Run Analyses Parallel Progress form has been improved so that all queued Analysis Series can be viewed using the scroll bar. Previously on the first 14 Analysis Series could be seen due to a vertical scroll-bar limit.

Installation and Licensing

Enhancements Implemented

*	Ticket	Description
	9081	The version number has been changed to v9.0.0 for a new major release. Models from
		versions prior to v7 will need to be opened and saved in v7 before they can be opened in v9.

Analysis Incidents Resolved

*	Ticket	Description
	9186	An incident was resolved where an abnormal termination could occur if a model with no analysis series defined enters the Run Analyses Parallel task (Analysis phase). This issue was noted to occur for some models that were exported from ETABS.
	9217	An incident was resolved where certain models from older versions of Perform-3D (prior to Perform3D v8) would fail to run analyses in parallel after opening in v8, but instead displayed the message "Please set up analysis series run cases first", even though the analysis series were already properly defined.

Data Files

Incidents Resolved

*	Ticket	Description
	9192	An incident was resolved where Fluid Damper components with the "Generate Coefficient"
		option enabled would be corrupted when a model created in Perform3D v7 or a prior
		version is opened in Perform3D v8. This issue caused the first segment of the generated
		coefficient to be set to zero and, in Perform3D v8, could be resolved by changing the
		parameters used to generate the coefficients. This issue has been fixed in Perform3D v9.

Database Tables

Incidents Resolved

*	Ticket	Description	
	9221	An incident was resolved where the "General Wall Results" database tables did not display. This issue only affected the database tables and did not affect other output for the general	
		wall.	
	9344	An incident was resolved where the "Frame Results - Components" database tables may not display if any of the frame elements selected contained an inelastic fiber section basic	
		component. Results were not affected.	

External Import and Export Incidents Resolved

*	Ticket	Description
	8788	An incident was resolved where importing results from another model using the Import
		Results task (Analysis Phase) could overwrite the results of an analysis series that was not
		selected for import if that analysis series had not been run in the the imported model.
		Additionally, in some cases, an issue can occur where the program may experience an
		abnormal termination error when a model that has not previous run any analyses is used to
		import results from another model using the Import Results task (Analysis Phase).
	8913	An incident was resolved where an exported General Wall Component (.PF3CMP file) could
		not be imported unless there was both a shear material and a diagonal compression
		material in the component definition, even though both are not required for a valid
		component definition.
*	9062	An incident was resolved where importing nodes and elements from text files using the
		"Import/Export Structure Data" task (Build phase) was not creating unique node IDs. This
		could cause all imported nodes to have the same ID (e.g., "N0"). Saved models that had this
		issue from a previous import will also be corrected when opened in the new version.

9169	An incident was resolved that addressed several issues with exporting and importing component properties: (1.) When trying to export a Support Spring component (under the Elastic tab) using the "Selected components of this type" option under the Export Components tab, an error message was displayed that the file could not be created. (2.) Importing a PF3CMP file with a Fluid Damper compound component (under the Compound tab) always gave an error that the dependent components were not available, even when the dependent components were already present in the model, making it impossible to import the compound component. (3.) Importing a PF3CMP file with a BRB compound component (under the Compound tab) always gave an error that the dependent components were not available, even when the dependent components were already present in the model, making it impossible to import the compound component. (4.)
	9169

Results Display and Output Incidents Resolved

*	Ticket	Description
	9060	An incident was resolved where, in certain cases, displaying time-history results could cause
		an abnormal termination of the software. When this occurred, restarting Perform3D would
		usually resolve the problem without any loss of data or results.
	9364	An incident was resolved where, when an analysis terminated due to a convergence error in
		a P-M2-M3 hinge component, the associated error message may not be present at the end
		of the ECHO file produced for the analysis run.

Structural Model Incidents Resolved

*	Ticket	Description
	9011	An incident was resolved where, in certain rare cases, a model could not be saved using the command File > Save As. In some cases, models affected by this issue may have also experienced abnormal termination errors when viewing results in the Analysis phase.
	9174	An incident was resolved where an abnormal termination of the software could occur after importing an ETABS model and then importing FEMA steel beam components. The abnormal termination could occur while adding the component or later when trying to run the analysis.
*	9577	An incident was resolved for the Strength Section Component definition forms where it was possible to create illegal strength sections that would prevent the model from running. This could occur by creating multiple sections without changing or closing the form. Normal use of the form to create a sequence of unique strength sections would not cause this error.

User Interface Incidents Resolved

*	Ticket	Description
	8763	An incident was resolved where the Frame View controls were not visible in Combination
		and Envelopes task after selecting the Element Color tab.
	9376	An incident was resolved where values for the parameters "PC", "PT", "DU (at F0)", "Ratio
		FY/FU", "Exponent for F2-F3 interaction" in the "V2-V3 Shear Hinge, Displacement Type"
		inelastic component could not be filled for a newly created component.