

# GENESYS 6.0 Service Pack 4

31 October 2018

In order to best serve our user community, Vitech releases the initial service pack 30 days after product launch, with subsequent service packs released every 45 days thereafter, to resolve errors identified and add minor capability enhancements.

We understand that service pack installation is harder in some organizations than others, so some users opt not to install all service packs. We recommend that all of our customers install this service pack. An error was discovered in the replication and migration of projects which causes issues with relationship attribute values. The issue can be seen when the relationship attribute value is not present in the database consistently. Once you have applied this update, we caution all users to verify that all relationship attribute values are present.

In the table below, you will find the enhancements and all of the fixed bugs grouped by area with a description of the main symptom observed. We like to incorporate capability enhancements throughout the service pack cycle, similar to the reporting toolkit reports included in this service pack. We hope you will share your ideas with us by emailing our Customer Support Team at [support@vitechcorp.com](mailto:support@vitechcorp.com).

This service pack is cumulative and includes all changes released in Service Packs 1, 2, 3, and 4. Unless otherwise noted, the installation of Service Pack 4 is the only action required to resolve the problem.

Reference	Description / Resolution Notes
<b>Enhancements</b>	
Help	The help file contents have been expanded and updated.
Reporting Toolkit reports	<p>To aid users in creating their own reports, we have released a few reports to help get you started. The following reports are released with this service pack:</p> <ul style="list-style-type: none"><li>• Component Hierarchy Report</li><li>• Functional Hierarchy Report</li><li>• Requirements Hierarchy Report</li><li>• Work Breakdown Structure (WBS) Report</li></ul> <p>To see a more detailed description of each report, look in the Reports &gt;&gt; Reporting Toolkit folder for the specified report.</p>
<b>Connector - Simulink</b>	
Missing Simulink libraries (11984)	If you try to run Simulink on a project where the computer you are on does not have all the Simulink libraries used, you receive error "No system or file called 'sh_lib' found" and Simulink will not run.
<b>Cross Project Relationships</b>	
Flow IBD commands (12078)	When manipulating a Flow IBD that contains cross project related nodes, some commands will result in error "Value cannot be null."

Reference	Description / Resolution Notes
Stop at Entity and BDD Diagram (11702)	If you have a BDD diagram open that shows a node that is in a related project, and the related project is set to stop at connected entities, and a child is added to the cross-project related node, you receive error "Value cannot be null."
<b>Data</b>	
Relationship attributes (11839)	The relationship attributes are shared between projects that had the same starting point. This was most evident in a migration or when a project is imported under a different name. NOTE: After service pack installation, you must verify that all relationship attributes are present in your current database.
<b>Diagrams</b>	
Flow IBD – <b>Performer</b> entities (12079)	Some commands do not work on the Flow IBD when opened on a <b>Performer (OperationalNode)</b> entity.
Requirements - edge decoration (11364)	If a diagram has the option "Use Orthogonal Lines" on, and two or more child requirements are connected to a node, the decoration used may not be correct.
Structure diagrams – multi-level exit nodes (11519)	On an FFBD, EFFBD, or activity diagram, if all branches have an exit, lines at the end of the parallel or selection constructs (after the exit node) appear if you make a change to the diagram.
Structure diagrams – selection probability (11735)	On an FFBD, EFFBD, or activity diagram, if you add or change a selection probability, the probability will overwrite the node until you close and reopen the diagram.
<b>University</b>	
API sample - Requirements Commenter (12036)	Running the API sample, Requirements Commenter, results in error "Invalid Login. University edition clients and services are not compatible with other editions of GENESYS."

## Changes included in Service Pack 3 (9/17/18)

Reference	Description / Resolution Notes
<b>Enhancements</b>	
Help	The help file contents have been expanded and updated.
Patriot Missile sample project	This sample project provides example scripts on several entities to provide for the following during simulation of the main Function: <ul style="list-style-type: none"> <li>• Prompt user for input</li> <li>• Set Function duration based on user input</li> <li>• Set Exit branch probability based on user input</li> <li>• Set Resource Amount based on user input</li> <li>• Modify an Iteration Count based on user input</li> </ul>
Spell-check as you type	Included in this service pack is spell-check as you type. If there is a word that is unknown, you have the option of ignoring the word or replacing it with suggested spellings.
University Edition Sample files	The elevator control and elevator system from CORE have been migrated and made available for GENESYS University Edition.
<b>Cross Project Relationships</b>	
Adding an exit condition to a function that is in a related project (11842)	When a function on an FFBD is in a related project, adding an exit condition to that function causes error "The specified entity is not in the database" to be reported.
Deleting a related project (11854)	A project that is related to another project through a relationship cannot be deleted. When attempted, error "GENESYS services encountered a problem while processing your request" is encountered.
Setting selection probability when not all related projects are present in the repository (11868)	Setting a selection probability on an exit condition where the exit is in a related project which is not present in the repository causes error "Object reference not set to an instance of an object."
Viewing FFBD when not all related projects are present in the repository (11860)	Viewing an FFBD which contains an exit condition on a function in a related project that is not present in the repository causes error "Object reference not set to an instance of an object."
<b>Node Template</b>	
Relationships type (11861)	A list of relationship targets is separated by a space in a node making it difficult to see how many targets are present in the model. The targets will now be separated by a carriage return. If a relationship attribute is being output, a separator of ":" will be used between the relationship target and the relationship attribute.
<b>Reports / Report Editor</b>	
Diagnostic Table (11835)	The "Diagnostics Table Report" is failing to list errors from select classes.

Reference	Description / Resolution Notes
<b>Simulation</b>	
<b>DomainSet</b> count (11833)	A <b>DomainSet</b> 's count is being set at simulation load time instead of being accessed from the model when the count is used.
<b>Function</b> duration (11833)	A <b>Function</b> 's duration is being set at simulation load time instead of being accessed from the model when the function is used.
Replicate construct (11622)	The replicate construct is simulating only one instance of the branch.
<b>Resource</b> amounts – initial, maximum, produced, captured, consumed (11858)	The resource amount is being set at simulation load time instead of being accessed from the model when the count is encountered.
Selection probability (11859)	The selection probability for exit conditions is being set at simulation load time instead of being accessed from the model when the count is encountered.
<b>University Edition</b>	
Installation for multiple users (11863)	The University Edition version of GENESYS will not start for multiple users on the same machine. Only the user who installs the software can start the GENESYS service.

## Changes included in Service Pack 2 (7/31/18)

Reference	Description / Resolution Notes
<b>Enhancements</b>	
Formatting Options on Text	<p>More control has been given over text fields.</p> <ul style="list-style-type: none"> <li>• A preference has been added to allow pasting text unformatted by default.</li> <li>• A “Paste Unformatted” command has been added to text field context menus.</li> <li>• A “Clear All Formatting” command has been added to text field context menus.</li> <li>• The report options (Keep All Formatting, Maintain Default Formatting, Keep Text Only) have been added to the text edit dialog’s ribbon.</li> </ul>
Simulink Connector (11756)	When using the Simulink Connector, setting the block type for a Component shows all the possible parameters and allows the selection of which ones to be created and updated in GENESYS.
<b>Cross Project Relationships</b>	
Drag drop onto a package (11712)	If an entity is dragged from one project explorer onto a package in the package navigation of another project’s explorer, the relationship between the entity and the package is not created.
<b>Data</b>	
Clear audit logs (11798)	When audit logging is disabled, the current log entries are not cleared from all entities.
New Node Template Command (11521)	When an entity is selected, the New Node Template command is not active on the Data ribbon.
Undo after schema change (11687)	If a schema change file is imported and then an undo action is performed, error “Cannot access a disposed object” is encountered.
<b>Diagrams</b>	
FFBD/EFFBD - Exit coloring (11675)	The text coloring of all Exit Nodes on an FFBD or EFFBD changes when one Exit Node color is changed.
Flow IBD – Line on a moved port (11744)	On a Flow IBD, the line connected to a moved Port entity reroutes automatically.
Flow IBD – <b>InterfaceDefinitions</b> label moving (11752)	On a Flow IBD, if anything is added to a node (e.g., Port, RequiredInterface, ProvidedInterface), all InterfaceDefinition labels are reset.
<b>Importing</b>	
Schema extension file (11749)	After importing a schema file (e.g., FMEA Extension), the design integrity checker script is reporting error “one or more errors occurred within the checker’s script” on the diagnostic page of all entities.

Reference	Description / Resolution Notes
<b>Reports / Report Editor</b>	
Spider Diagram Output (11732)	A hierarchy definition cannot be selected when outputting a spider diagram in a report.
TeamView – Incorrectly sized diagrams (11818)	When running TeamView, some diagrams are output at the wrong scale (bigger or smaller than desired).

## Changes included in Service Pack 1 (6/15/18)

Reference	Description / Resolution Notes
<b>Enhancements</b>	
Performance improvements	Increased the performance in retrieving entity lists throughout the tool. This includes browsing, target lists, searching, and running reports such as TeamView.
<b>Connectors</b>	
Last login information not saved (11560)	When connecting to a remote repository, the login information (repository and user name) is not remembered across sessions.
PowerPoint missing some diagrams (11729)	Some diagrams are not being imported into PowerPoint (e.g., Requirements diagram when a Document was selected).
<b>Locking</b>	
Lists of entities are pre-filtered (11748)	When viewing a list of entities, if locked entities are not appropriate, the locked entities are not shown. This could lead to some confusion.
<b>Search</b>	
Escaped wildcard not highlighting (11724)	When using an escaped wildcard (e.g., \*) with whole word selected, the character is not highlighted correctly.
Remembering include children option (11723)	The “Include Children” option is not remembered from search to search.
<b>Reports / Report Editor</b>	
SDD figure captions (11699)	Figure captions are captured inconsistently.
SDD subgroups included in TOC (11700)	The subgroupings of output in the following sections are included in the TOC: Use Cases, States & Modes, Functional Behavior Model, Components, Interfaces & Links.
<b>Simulation</b>	
Running scripts on specific entities (11737)	During a simulation, executing a script for an entity that starts with a number (e.g., 2 Collection Points) causes an error.