

Visual Components 4.5 Release Notes – 23/08/2022

We've made improvements to the usability, stability, and performance of our products in this release. Here's an overview of the updates:

23/08/2022

A bug fix release for saving layouts and workflows related to process modeling robot teaching.

ID	Description
16555	Saving layout performance issue is fixed
16610	Double clicking on Call statement now displays contents of routine
15340	Expression issue with assemblies in process modeling is fixed
16451	Statements can now be copied/pasted from one sequence to another in Program tab

13/07/2022

New Features

A short overview of what is new.

KUKA OLP

An add-on in Visual Components Premium for offline programming KUKA robots the same as in KUKA.Sim 4.1. Be aware the add-on is meant for KUKA robots that support KUKA Robot Language or KRL. A separate license is required to use the add-on for tracking purposes. By default, the add-on is installed with Visual Components Premium.

Process Modeling Improvements

Additional tools to define optional and parallel processes for products. This includes prioritization of products and allowing products to enter the same process multiple times.

OPC UA Improvements

Security upgrade and the ability to exchange spatial data with a server, for example the Cartesian position and orientation of parts moving on a conveyor detected by a camera or sensor.

Modeling Improvements

Combine geometry in one of three ways using a Boolean feature. One example is to create holes or remove material from an object using the geometry of another object.

Rendering Improvements

The materials libraries have updated to eliminate brightness issues and provide more realism.

Drawing Improvements

Icons and images can be added to and exported with technical drawings. Be aware this requires using API.

Other Improvements

A recap of other work done including features requested via Visual Components support. Be aware that Visual Components 4.5 supports remote desktop connection.

ID	Description
5123	Add and remove events in .NET API for signal connections
5658	Dimensions can be exported to VC Experience
11076	Preview of item in eCatalog now has no time limit
11227	Support button removed from ribbon of Help tab
11339	3D rendering can be toggled using API
11340	Event for streaming service when component is added
11341	Event for streaming service when node is added
11342	Event for streaming service when node is transformed
11343	Event for streaming service when component is removed
11344	Event for streaming service when parent of node is changed
11637	Enable Remote Desktop to work with current rendering
11943	DetailCurveMotion for motion paths can be visible in UI by editing config file
11979	Paired variables in connectivity can be removed using Delete key
12001	Performance improvement to speed up installation of the software
12032	Tree of statements in robot program can be copied or added to custom panel
12255	Updated to Test Connection dialog in Connectivity to display product name
12256	Bottom message in Standalone license screen in launcher can be customized
12266	Update ReadMaxAge label and tooltip in Japanese
12267	Updated Signal List caption for Japanese
12268	Updated UseHeartbeat and HeartbeatTime label in Japanese
12271	Updated Geometry Uri tooltip in Japanese
12272	Corrected truncate text issue with Auto increment revision property
12273	Corrected truncate issue with Deactivate button for Japanese
12274	Updated Create Variable Pairs window caption for Japanese
12578	Updated German label and tooltip for Clear Output option
12907	Updated JointType options for Japanese
12908	Updated Floating License header for Japanese
12909	Updated Camera Animator localization
12923	Streamlined password requirements for Visual Components portal and registration
13415	Updated Material Flow section label in Behaviors menu
13422	Ability to recover password in Customer Support page
13438	Updated label and tooltip for Component Container behavior
13439	Updated label and tooltip for Block feature
13440	Updated Feature Tree import labels for Japanese
13482	More accurate tessellation of imported mf1 files
13681	Use independent keyword to activate software rendering for RDP
13682	Backstage option to enable software rendering for RDP
13683	Software rendering support for network/floating license
13698	Updated German translation for path curve offset label
13703	Indicator for borrowed license that is expiring
14019	Version update for FBX, Parasolid and SolidWorks file formats

14357	Windows group in ribbon of Program tab is by default last group
14358	.NET API for customizing which program editor to use for active robot
14891	Added tooltips for Assign, Switch, Break, Continue, Halt statements in PM context
14900	Updated minor UI texts on process flow editor
15113	Standardized error-handling of expression variables within PM context
15541	Minor UI updates on Program Editor panel such as margins and spacing

Bugs

A recap of bug fixes including those reported to Visual Components support.

ID	Description
3984	OPC UA client not respecting the read and write limits of server
5357	PM TransportIn & TransportPatternIn issue when list contains one component
5564	Issue with using Component Container as destination for Buffer statement
7645	Memory fix for calling IBehavior.Destroy() without ISimNode.RemoveBehavior()
8775	Clearing of drawing world
8792	Selection of features after importing geometry as Node structure
8852	Assert failure when clearing layout
8891	Exception with IMotionTarget.WorkpiecePositioners in .NET API
8999	Exception during runtime with Capacity Controller
9059	Merge issue with Process Modelling / Assembly layouts
9062	Copying issue with GetProperty statement and its properties
9341	Property value not changing in Properties panel
9460	Issue with Processor component moving after deselecting it
10500	Merge issue with eCatalog layouts
10551	Export image command stays active in UI after exporting an image
10676	Export to animation panel shows stop and save button while animation is streamed
11393	CheckAssembly produces inconsistent results
11533	Unable to select AcceptedProductTypes or AcceptedFlowGroups with vcConfigurableProductTypeFilter
11534	Properties made by vcConfigurableProductTypeFilter are not persistent
11535	vcConfigurableProductTypeFilter overrides existing property values
11596	Unresponsive when using product creator in table mode with lots of data
11722	Nonpersistent layout items are not deleted when layout is cleared in 3D world
11750	Crash when loading layout
11806	Issue with Assign statement when comparing property values in expression
11824	Select command not selecting items
11826	Exception with 3D PDF recording
11983	Performance regression
11990	Cloning issue with robot positions that are global in the scope of executor
12000	Unable to write component property with PM assign statement
12019	Issue with If statement in PM
12264	Special character issue with Assign statement expression
12455	Exception and crash when copying PM statements to other processes
12470	Crash when using vcProductNeed.new()
12480	AssemblySteps property value different from assembly hierarchy

12498	Performance issue related to createTarget and moveImmediate methods
12610	AssemblySteps property API issue
12645	Robot not moving when two identical points are executed one after the other
12785	New VCID being created for component when option is unchecked
12801	Crash when name of component assigned to a Product Type contains a + character.
12911	Pasting a path statement doesn't work if the path statement is selected
12929	Script editor missing icons
12930	Statements in Program Editor cannot be copied
12938	Python API SelectionManager fails with else-if and switch statement scopes
12962	Connectivity exception
12981	Deleting the last statement sometimes leads to an exception in Program Editor
13020	Deleting all statements causes an exception in Program Editor
13033	Path statement positions cannot be copied and pasted in Program Editor
13076	Exception when accessing Program tab when component not robot is selected
13093	Assign statement property values update only when simulation starts
13141	Transparent material in 3D world not rendered correctly
13206	Layout not loading in 3D world
13296	Layout loading takes long and closing takes huge amount of memory
13470	Clipboard exception when copying version information
13500	Exception when stopping PDF recording
13672	Crash when loading layout
13692	Crash with StartTransportIn to assembly
13701	Issues related to recording animation
13932	Wrong translation in an error message
14006	Cyrillic characters are not supported in Product Creator Table Feed mode
14016	GetProducts statement property variable name label changes before and after copy/paste
14017	PM requirement statements are disabled by default when opening process editor in 4.5
14022	Changing product's type doesn't consider Product Type inheritance in property retention
14104	Export layout to PDF shows "PDF template file not found" error
14108	moveImmediate with joint values rotates joint around wrong axis
14204	Memory consumption when creating dimensions
14610	Wrong Japanese localization for connectivity tooltips
14626	Requirements tree context menu is missing in process modeling
14655	PM product creator prints errors after creating 100k products
14665	Unhandled exception and crash with processes based on conveyor lengths
14800	Font issue with displaying Chinese characters
14878	Deleting geometry sets using Python API gives errors
14901	Translation error in Connectivity
15133	Crash when resetting simulation
15165	Clearing drawings issue
15176	Clicking on a node does not activate the correct executor for teaching robot
15337	Smart collection not able to show all manufacturers in the eCatalog
15356	Registration form crop issue
15388	Collision detection translation issue

15476	Exception when using Automatic Order Picking System layout
15542	RSL executor upgrade issue in the UI
15721	SelectProducts statement no longer accepts empty values
15767	Indentation issue with installer text
15799	Icon issue for robot statements when using Python and .NET API
15957	Set Statistics statement icon not visible in Program Editor