

## Visual Components 4.3.1 Release Notes – 27.04.2021

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### What's new

You will find a lot of improvements and new features in Visual Components 4.3.1 such as an option that allows usage of external python script editor, a new collision detector panel which makes it possible to view/edit all created collision detectors, HOOPS EXCHANGE 2021 update, OPC UA client library updated to latest version, documentation of connectivity API on help file, option to import CAD model configurations, option to add watermark to 2D drawing, Dimension in 3D world, a new API that can be used to display graph on panel and more.

ID	Title
3737	API for displaying graph on panels
3861	Expose HasMaterialInheritance flag in Python API to assign component material
4071	Error logs for license manual activation/deactivation
4269	Expose vcTriangleSet.DynamicTextureCoordinates1 equivalent in .NET API
4308	Implement and include SetProcessContextCommand
5000	Additional syntax to query eCatalog database
5030	Expose the simulation property 'Repeat' in Python API
5363	Possibility to set Alpha value for the HoverColor
5629	Import CAD model configurations
5632	Dimension in 3D World
5957	Unregister F1 shortcut for calling OpenHelpDocument
6728	Update OPC UA client library to the latest supported version
6776	Drag-n-drop a process from Flow viewport to Process Flow editor
7463	Update Statistics Template files

7556	ProductVersion getter returns product version for OEM product not VC platform
7608	Collapse All / Expand All Program Editor statements via API
7665	Document public API for Connectivity
7810	Included activation/deactivation/renewal logs in the client application
8167	Watermarking on Drawings
8385	Update to PM tools & Add new CreateSignal command
8403	Convert dimensions in 3D World to Dimension on Drawing context when creating a drawing
8495	External script editor
8569	HOOPS EXCHANGE 2021 U2 Update

## Bug fixes

ID	Title
2396	Process Creator disregards ResourceLocation when creating products
2409	ISimulation.SimulationReset event is raised multiple times when loading a layout
2820	Product position in a process depending on simulation speed
2884	Path merge from program editor adds positions above the statement
3663	Signals view (greyed components) might stay after closing the "Signals" panel
3679	.NET API: Unable to cast IGeometrySet to ITriangleSet from ICollisionRecord.GeometrySetA nor B
3691	Robot linear motion slows down when outside joint limits
3830	Properties not displayed in action panel when opening and closing wizards
3862	User properties added to the component features using feature.createProperty() are not persistent
3890	Error 'Format other than expected: Manifest file missing' while loading the component.
3985	Chosen component misses the highlight around it for the parts that material is "transparent"
4011	Improve offline deactivation error message
4268	Component sensor triggered twice and losing signals
4538	VcTeachOverlayMenu is only for components with Executor and/or RobotController behavior
4658	Image export issue with custom resolution and realistic shaded mode
4822	Product type editor displaying poorly double type properties with quantities
4874	Connectivity: Can't have more than 16 variable groups set to cyclic update mode at a time.

4986	ProductCreator: No output error with empty table in Table Mode
5029	Python API vcApplication.resetSimulation() does not reset the simulation
5072	Importing Parasolid with Math data and collapsed feature tree misplaces some features
5108	EOAT wizard missing properties
5122	4.2.2 Changing transport link's implementer to be the Interpolating TC doesn't work from Python API
5332	Interfaces UI: Disconnecting interface leaves connection circle highlighted.
5684	User View bug with different rendering modes
5817	Rendering bug when you move geometry to a link
6007	Tool Export wizard creates TCP Frame even if the checkbox is deselected
6385	Forced application restart when stand-alone license renewal expires on a machine with active network connection
6391	License server commuter info shows that 10 licenses are commuted but list shows only 5 clients
6618	VcActivatorCmd does not remove a key
6620	Copy-pasting component does not copy Routing Rule correct
6631	Plane feature under Revolve feature causes a crash
6785	Resource position in a process depending on simulation speed
6890	Failed Stand-alone deactivation leaves license locked
6961	Product/Assembly not transported from a node connected as a sensor if it is between two conveyors
7071	ERROR - cannot add contentpanel ('Layout', '') is already attached to another parent in log file on startup
7234	After using vcPathStatement.removeSchemaProperties other properties get wrong values
7261	Cloning PM resources causes access violation
7275	The transparent material does not have the highlight border around the component
7280	Exception error when moving component origin with Assign Material panel opened
7297	Disconnect and Reconnect commands not active for server connection
7356	Physx engine does not update the collider
7368	Exception and crash on clean all in VC 4.2.2
7380	Cannot collapse connectivity plugin menus
7471	TI product offset while using interpolating transport
7553	Collapsing feature reverses surfaces
7564	Change the export extension for VRML file
7566	"No valid Topology license found" exception in VC Professional 4.3

7589	Assembly tree: Step#1 default name in Spanish is "Paso n.º 1"
7607	4.3 Key activation hangs at "Activating product key"
7613	Unable to assign vcProperty.Distribution from Python API
7615	Constrained Property disappears from GUI (Component Graph) when the component is selected
7616	Unhandled exception when adding a property to component in GUI
7644	Drawing: Error in creating BOM
7666	Memory leak when creating and deleting server repeatedly
7668	ICollisionDetector.SetNodeListX() throws exception
7738	Corrupt VCMX file file size growth at save
7771	Crash when removing a bundle of products that is selected
7773	[4.3] Executing fillView command from python crashes the software
7776	Deactivation wizard does not show the custom SFProduct Name in the text
7788	Assembly Slot pattern tool spacing issue with Linear and Block templates
7799	vcApplication getCommands() will cause VC to crash
7813	Assembly Slot pattern tool issue: ProductType filters not applied to new slots
7848	Scrolling eCat folders is much slower in VC 4.3 compared to VC 4.2
7856	vcApplication.save() does not include components while saving
7859	Calling python vcProduct.changeType() crashes the software
7901	Copied-Pasted Feature Tree Not Rebuilt
7902	Assembly slot origin out of place when component properties are applied
7915	[4.3] Import: Geometry missing in VC
7916	4.3.0 does not start (loops on activation wizard) when run normally
7917	Fix addMenuItem() throwing "entry has been already added" error in FlexLink 4.3.0
7928	PM access violation when importing a feeder and deleting flow group
8027	[4.3] Exception while using slice tool
8035	FillView in Python command does not work as expected
8037	Cloning a component with a process corrupts layout
8052	Application should remember position of panels between application run
8078	Collision Detector crashes application when one of the components used is deleted in VC 4.3
8079	Editing collision detector causes exception when part (node) was previously deleted
8086	PinWheel pattern adds extra slot with multi-slot pattern creation
8095	Issue when copy/pasting features of a component
8102	Transport node remains visible in flow editor after the component is removed

8144	CAD configuration enabled throws exception when no name for config
8158	Python API vcSimulation.run() cause VC Pre 4.3 app crash
8300	Selecting a component may take over 2 minutes with tens of thousands of materials in layout
8315	Panels build with custom Python scripts does not work anymore.
8329	Slots in wrong position with slot pattern "from layout" option
8330	App crash while opening a layout
8354	PythonAPI: Geometry sets are not removed by deleteGeometrySet()
8365	Cloned feature did not include new added property
8411	Extra character showing on angular drawing
8491	Python scripts throw exception if external editor has been uninstalled or system default has not been defined
8535	Trying to license product with NLS hangs in develop
8540	CAD Import loads suppressed geometries
8554	Robot motion with path statement slows down after simulation reset
8578	Bad error message when registering a Python command twice
8591	Watermark URI field size depends on path length
8686	Drawing creation ignores some dimensions
8693	Redo of angular dimension converts it to linear dimension
8703	Offset when creating 3D dimension from top view
8757	Collision highlights not always correctly applied when component rootnode is not selected
8780	Typ Error in Signal Provider
8784	Upper and Lower Case in Ribbon should be according to Standard
8800	Simulation stops when running bottle filling layout with highest speed
8864	doFinish error from commandPanel when applying
8870	Product registration does not work properly
9013	4.3.1 Component properties panel are not shown
9017	4.3.1 PM exception when using product properties in expressions