

Version Info (Release Notes)

Current Version

Receives continuous updates and new features. Update interval frequently.

Version:	2024.1.166					
Release date:	2024-03-12	Desktop	WebViewer	VisShare	VR-Edition	Automation Server

New:	▪ Import 3D:	●	●	●	●	●
	○ SolidWorks 2024					
	▪ Alternative JT import: support of views and tessellated PMIs #1207	●	●	●	●	●
	▪ Add field to ribbon to search online help center	●	●			
	▪ Line width setting for contour #1266	●	●	●	●	●
	▪ Korean language supported again	●	●			
▪ VS License Manager: support of wildcards for privilege rule configuration #1293	●	●	●	●	●	
Fixes:	▪ Alternative JT import: multiple loading errors #1207	●	●	●	●	●
	▪ JT Assembly loads correctly #779	●	●	●	●	●
	▪ Improve circle detection #1304	●	●	●	●	●
	▪ Setup: check for correct supported Windows version #1315	●				
	▪ Start up: race conditions when using LMX License Manager #1318	●				
	▪ 3DPDF with import dialog: choose starting scene with 2D/3D button	●	●	●		
	▪ XML-API: GetNodeProperties #1283	●	●	●		●
	▪ XML-API: ImportVXMLToNode sets correct color #1300	●	●	●		●
	▪ Correct cleanup for exit codes #1298					●
	▪ VS License Manager: Windows Usergroup Timeout #1313	●	●	●	●	●
	▪ VS License Manager: ServerConfig.json no longer overwrites itself on updates	●	●	●	●	●

Previous Version

Version:	2024.0.444					
Release date:	2024-02-09	Desktop	WebViewer	VisShare	VR-Editio	Automation Server

Updated system requirements: Windows 10 / Windows Server 2016

Fixes:	▪ BOM setting "Configure attribute display" #1282	●	●	●	●	●
	▪ Import setting "Additional search paths" #1282	●	●	●	●	●
	▪ WV: Visualization settings for 2D #1288		●	●		
	▪ WV: Skybox selection #1277		●	●		
	▪ KAS: Generate screenshot exit code #1298					●

Full Version History

Version:	2024.1.166					
Release date:	2024-03-12	Desktop	WebViewer	VisShare	VR-Editio	Automation Server

New:	▪ Import 3D:	●	●	●	●	●
	○ SolidWorks 2024					
	▪ Alternative JT import: support of views and tessellated PMIs #1207	●	●	●	●	●
	▪ Add field to ribbon to search online help center	●	●			
	▪ Line width setting for contour #1266	●	●	●	●	●
	▪ Korean language supported again	●	●			
▪ VS License Manager: support of wildcards for privilege rule configuration #1293	●	●	●	●	●	

Version:	2024.1.166	Desktop	WebViewer	VisShare	VR-Edition	Automation Server
Release date:	2024-03-12					
Fixes:	<ul style="list-style-type: none"> ▪ Alternative JT import: multiple loading errors #1207 ▪ JT Assembly loads correctly #779 ▪ Improve circle detection #1304 ▪ Setup: check for correct supported Windows version #1315 ▪ Start up: race conditions when using LMX License Manager #1318 ▪ 3DPDF with import dialog: choose starting scene with 2D/3D button ▪ XML-API: GetNodeProperties #1283 ▪ XML-API: ImportVSXMLToNode sets correct color #1300 ▪ Correct cleanup for exit codes #1298 ▪ VS License Manager: Windows Usergroup Timeout #1313 ▪ VS License Manager: ServerConfig.json no longer overwrites itself on updates 	●	●	●	●	●
		●	●	●	●	●
		●	●	●	●	●
		●				
		●	●	●		●
		●	●	●	●	●
		●	●	●	●	●
		●	●	●	●	●
		●	●	●	●	●

Version:	2024.0.444	Desktop	WebViewer	VisShare	VR-Edition	Automation Server
Release date:	2024-02-09					

Updated system requirements: Windows 10 / Windows Server 2016

Fixes:	<ul style="list-style-type: none"> ▪ BOM setting "Configure attribute display" #1282 ▪ Import setting "Additional search paths" #1282 ▪ WV: Visualization settings for 2D #1288 ▪ WV: Skybox selection #1277 ▪ KAS: Generate screenshot exit code #1298 	●	●	●	●	●
		●	●	●	●	●
			●	●		
			●	●		
						●

Version:	2024.0.438					
Release date:	2024-01-26	Desktop	WebViewer	VisShare	VR-Edition	Automation Server
	<ul style="list-style-type: none"> XML-API pane moved from Output pane to Tool ribbon, response output added #1103 XML-API: functions to color nodes or faces randomly # 1221 VS License Manager: supports upgrade-switches of license features now VS License Manager: license monitor improvements # 1186 	●	●	●	●	●
Fixes:	<ul style="list-style-type: none"> Correct installation behavior for closing running applications #1204 Improve startup behavior of Desktop version #1211 WV: initialize 2DAdvanced feature correctly #1255 SolidEdge import: correct subassembly visibility #925 STEP import: load tessellation correctly #1023 NX import: load node visibility correctly #1193 OBJ import: load textures in edge case correctly #1170 Aligning: Move: enable functions to work with a boundary condition if activated #1235 Structure tree: moving nodes lost file paths #1214 WV: Structure tree: multi-selection with SHIFT in a large tree #1234 Clear CustomIDs #1229 	●	●	●	●	●

Version:	2023.7.197					
Release date:	2023-11-17	Desktop	WebViewer	VisShare	VR-Edition	Automation Server

New:	<ul style="list-style-type: none"> Import 3D: <ul style="list-style-type: none"> Revit 2024 	●	●	●	●	●
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Version:	2023.7.197					
Release date:	2023-11-17	Desktop	WebViewer	VisShare	VR-Edition	Automation Server
	<ul style="list-style-type: none"> Solid Edge: support of Assembly Features #829 Center handle of translation transformations (move) #1087 Reset geometries to initial color Overwrite initial color of geometries BOM: new creation mode: Structure tree: lists all root and PO nodes #716 BOM: new creation mode: Selection including children: lists selected node and all its children nodes #1160 BOM: new option to remove or keep empty columns #1169 	●	●	●	●	●
Fixes:	<ul style="list-style-type: none"> SolidEdge import: show pipes correctly #830 SolidEdge import: show frames correctly #646 	●	●	●	●	●

Version:	2023.6.145					
Release date:	2023-10-13	Desktop	WebViewer	VisShare	VR-Edition	Automation Server

New:	<ul style="list-style-type: none"> Import 3D: <ul style="list-style-type: none"> NX 2306 JT up to 10.9 Import 2D: <ul style="list-style-type: none"> NX 2306 Series (until 2306.4000) Curvature analysis: New feature to analyse surfaces KAS Monitor: New tool for conversion per directory monitoring PLMXML import: option to load 3DVS instead of referenced JTs #1053 2D: option to turn page with mouse wheel 2D: option to keep position when turning pages #291 	●	●	●	●	●
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Version:	2023.6.145	Desktop	WebViewer	VisShare	VR-Editio	Automation Server
Release date:	2023-10-13					

Fixes:	<ul style="list-style-type: none"> ▪ SolidEdge import: Coordinate system visibility and size #825 #861 #862 ▪ SolidEdge import: Simplifications improvements #808 #864 ▪ Navisworks import improvements #927 #989 ▪ Improve radius measurements #1046 ▪ Improve angle measurements #1072 ▪ Improve display of PMIs with asian characters #908 ▪ Improve display of drawings with asian characters #872 ▪ Improve Copy-Paste behaviour #946 #947 	●	●	●	●	●
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Version:	2023.5.648	Desktop	WebViewer	VisShare	VR-Editio	Automation Server
Release date:	2023-09-08					

New:	<ul style="list-style-type: none"> ▪ Import 3D: <ul style="list-style-type: none"> ○ USD ▪ Rework: Floating licensing ▪ Rework: Wall thickness #140 ▪ Rework: Band analysis #144 #143 ▪ Rework: Aligning #607 	●	●	●	●	●
Fixes:	<ul style="list-style-type: none"> ▪ Revit: Problems with displaying of Revit file #920 ▪ 3DPDF: prevent crash during loading #984 ▪ Neutral axis: optimizations for some cases #986 	●	●	●	●	●

Version:	2023.5.648					
Release date:	2023-09-08	Desktop	WebViewer	VisShare	VR-Editio	Automation Server

- Load DWG/DXF import dlls correctly #931
- DXF export speedup in critical cases #987
- 2D default export format is not applied #897
- WebViewer Ribbon for small screens fixed #1035

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		●	●		

Version:	2023.4.217					
Release date:	2023-08-09	Desktop	WebViewer	VisShare	VR-Editio	Automation Server

New:

- Import 3D:
 - ACIS 2023
 - Creo 10.0
 - Navisworks 2024
- Import 2D:
 - NX 2212 Series (until 2212.7000)
- NX assembly files load referenced JT files #907 #7110
- Selection: all geometries, all PMIs and all markups
- VR: activating views now changes the position #969
- XML-API console

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Fixes:

- Navisworks file loading error #826
- CATDrawing: wrong font recognized for some symbols #743
- Show quick info on hover in structure tree #945
- Use correct position while copying focused geometry to second scene #854
- 100 % Ghost shows correct transparency #896
- Activation license: correct maintenance check #941

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	●	●	●	●	●

Version:	2023.4.217					
Release date:	2023-08-09	Desktop	WebViewer	VisShare	VR-Edition	Automation Server

- Import: ZIP archive was falsely recognized as 3MF #421

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Version:	2023.3.149					
Release date:	2023-06-09	Desktop	WebViewer	VisShare	VR-Edition	Automation Server

New:

- Import 3D:
 - Catia V5_6 R2023
 - Parasolid 35.1
 - Inventor 2024
- DXF export: screen-aligned markups are saved as text #798
- Node properties to adjust rotation and scale of patterned materials #865
- XML-API: FindAndReplaceString #764
- XML-API: ConvertVSXMLToNestedSTEP now supports optional export of node tree structure #661
- XML-API: Set markup anchor #744

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Fixes:

- Reestablished support of older CPUs #877
- 3DVS and VSXML: Floating point format may differ in XML content if precision can be preserved by using scientific notation #762
- Floating license issue regarding the combined use of IMPORT_3DVS and IMPORT_All fixed #910
- Parasolid import: show correct node names in structure tree #906
- STEP import: show views correctly #595
- CATIA import: show a part not multiple times #131
- CATIA import: don't show coordinates systems as faces #132
- CATIA import: load R22 files updated with CATIA R32 #781

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Version:	2023.3.149					
Release date:	2023-06-09	Desktop	WebViewer	VisShare	VR-Edition	Automation Server
▪	Revit import: rfa file loads now correctly #797	●	●	●	●	●
▪	STEP export: tessellation issue #614	●	●	●		●
▪	VXML import: progress overlay was not removed #924		●	●		
▪	DXF export: circle recognition algorithm improved #800	●	●	●		●
▪	Some formats could not be converted to FBX #911					●
▪	Material rendering repaired after disassembling and reassembling surfaces #645	●	●	●	●	●
▪	Webviewer usage collector optimised #839		●	●		
▪	jQuery update #902		●	●		

Version:	2023.2.146					
Release date:	2023-04-14	Desktop	WebViewer	VisShare	VR-Edition	Automation Server

New:	▪	Import 2D	●	●	●	●
	○	NX 2212 Series until 2212.4000				
	○	HEIC (as is)				
	○	Excellon (as is)				
	▪	Exact compare: works now with tessellation #517	●	●	●	●
▪	Export views to PDF: new settings to define paper format and DPI #567	●	●	●		●
▪	Presets: color picker can include user-defined tooltip #776	●				
▪	XML-API: SaveAsRelative		●	●		

Fixes:	▪	CGM: wrong display #667	●	●	●	●
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Version:	2023.1.225					
Release date:	2023-03-28	Desktop	WebViewer	VisShare	VR-Edition	Automation Server

Fixes:	<ul style="list-style-type: none"> ▪ Windows Server 2016 startup #789 ▪ Print dialogue #785 ▪ Change name: Del button deletes node #788 ▪ Structure tree: cut and paste #787 	●	●	●	●	●
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Version:	2023.1.224					
Release date:	2023-03-17	Desktop	WebViewer	VisShare	VR-Edition	Automation Server

New:	<ul style="list-style-type: none"> ▪ Import 3D <ul style="list-style-type: none"> ○ AVEVA RVM ○ Navisworks 2023 ○ NX 2212 ○ Parasolid 35.0 ○ Solid Edge 2023 ○ SolidWorks 2023 ▪ SolidEdge import: support of coordinate systems ▪ JT export: support of coordinate systems ▪ Faster vector export (DXF, SVG) ▪ Cut of multiple nodes and paste on one of them creates a new node ▪ Rework: Alignment functions part 1: Render preview ▪ Rework: Attribute CSV import 	●	●	●	●	●
Fixes:	<ul style="list-style-type: none"> ▪ Solid Edge 2022 simplifications #502 ▪ Solid Edge assembly references #754 ▪ Multiple Inventor import issues #582 #584 ▪ OBJ import: missing triangles #715 	●	●	●	●	●

Version:	2023.1.224	Desktop	WebViewer	VisShare	VR-Edition	Automation Server
Release date:	2023-03-17					
▪ WRL import: missing geometries #671		●	●	●	●	●
▪ Shut down when double-click in structure tree		●				
▪ API: ConvertDXFVersion not working #724		●	●	●		●
▪ Uninstall error		●			●	
▪ Deleting of log files #761			●	●		

Version:	2023.0.405	Desktop	WebViewer	VisShare	VR-Edition	Automation Server
Release date:	2023-02-13					

New:

- **IMPORTANT:**
 - This release includes licensing updates for VisShare. Old licenses will not run with this VisShare.
- Import 3D
 - Revit 2023
- Import 2D
 - CATIA V6 R2023x
 - Solid Edge 2023
 - Solidworks 2023
- 2D DWG/DXF: Font substitution available on import #503
- Edge length of construction planes can now be defined on import
- Structure tree: edit node names per click #625
- Structure tree: new functions to cut, copy and paste
- KAS: The log file now contains all the information used during the conversion (path to the used settings etc.) #639
- VR: new setting to define color and transparency of the floor #666

Desktop	WebViewer	VisShare	VR-Edition	Automation Server
		●		
●	●	●	●	●
●	●	●		●
●	●	●		●
●	●	●		●
●	●	●		●
●	●	●		●
				●
			●	

Version:	2023.0.405					
Release date:	2023-02-13	Desktop	WebViewer	VisShare	VR-Edition	Automation Server

Fixes:	<ul style="list-style-type: none"> ▪ STEP import crashed in rare cases #719 ▪ Creo 4 and 7 assemblies open correctly #248 #463 ▪ Revit: fix box representation of some geometries #6880 ▪ DWG: an old version was incorrectly recognized #623 ▪ 3DPDF recognition improved #718 ▪ PLMXML reader improved #601 ▪ VSXML: set correct node type #642 ▪ Some native PMIs had a wrong bounding box and made the scene huge #632 ▪ Improve highlighting of PMI references #603 ▪ BOM: Bounding box measurements corrected #681 ▪ Correct FitAll in perspective mode #599 ▪ Circles can be measured again after extracting faces of a solid #532 ▪ World coordinate systems were created at the wrong position in rare cases #530 ▪ Set section plane handles correctly after activating views #88 ▪ Show face properties when selecting multiple faces #627 ▪ Activator success exit code was moved from 1 to 0 #624 	●	●	●	●	●
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Version:	2022.8.293					
Release date:	2022-12-05	Desktop	WebViewer	VisShare	VR-Edition	Automation Server

New:	<ul style="list-style-type: none"> ▪ DXF Export: support of coordinate systems #544 ▪ Import attributes from CSV #596 	●	●	●	●	●
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Version:	2022.8.293					
Release date:	2022-12-05	Desktop	WebViewer	VisShare	VR-Edition	Automation Server

	<ul style="list-style-type: none"> ▪ Background color for PMIs #535 ▪ BOM - new options: Bounding box, gravity center, structure level #273 #288 #326 ▪ Show face attributes #329 ▪ API: Identify node complexity #350 	●	●	●	●	●
Fixes:	<ul style="list-style-type: none"> ▪ Improve import of PDF #576 #589 ▪ Improve instance recognition #590 ▪ Improve E57 point cloud rendering #540 ▪ Fix split scene function #600 ▪ Fix circle markups in 2D #453 ▪ Improve TIF performance after copy/paste #619 ▪ Improve loading of many attributes #618 ▪ VR: One eyed rendering in some cases 	●	●	●	●	●

Version:	2022.7.482					
Release date:	2022-11-07	Desktop	WebViewer	VisShare	VR-Edition	Automation Server

New:	<ul style="list-style-type: none"> ▪ IMPORTANT: <ul style="list-style-type: none"> ○ This release contains security updates. We recommend updating to this version as soon as possible. ▪ Import 2D <ul style="list-style-type: none"> ○ NX 2206 ▪ Export 2D <ul style="list-style-type: none"> ○ WMF (raster) ▪ Activation licensing improved 	●	●	●	●	●
		●	●	●	●	●
		●	●	●	●	●
		●	●	●	●	●

Version:	2022.7.482					
Release date:	2022-11-07	Desktop	WebViewer	VisShare	VR-Edition	Automation Server
	<ul style="list-style-type: none"> ▪ Transform: three points to three points #403 ▪ Copy/Paste in 2D scenes #218 #224 #489 ▪ Improve performance of VSXML import ▪ Load structure, then reload all nodes #476 ▪ Setup: New option to generate extensive support information for critical cases (default: on) 	●	●		●	
		●				
		●	●	●	●	●
		●	●	●	●	●
		●	●	●	●	●
Fixes:	<ul style="list-style-type: none"> ▪ Show correct wall thickness result in the measurement pane #549 ▪ Line highlights are rendered with line width correctly #537 ▪ Improve Solidworks conversion in rare cases #484 ▪ Improve Navisworks import #516 ▪ Improve Solid Edge DFT import #470 #3675 ▪ Improve SVG export #504 ▪ E57: use correct scale and up-vector 	●	●	●		
		●	●	●	●	
		●	●	●	●	●
		●	●	●	●	●
		●	●	●	●	●
		●	●	●	●	●

Version:	2022.6.170					
Release date:	2022-09-05	Desktop	WebViewer	VisShare	VR-Edition	Automation Server
New:	<ul style="list-style-type: none"> ▪ IMPORTANT: <ul style="list-style-type: none"> ○ Network licensing (Floating) requires license server version 5.0 or higher ▪ STEP, IFC and Creo Import: choose codepage to display node names correctly (available codepages can be edited in the preset.xml) #405 	●	●	●	●	●
		●	●	●	●	●

Version:	2022.6.170					
Release date:	2022-09-05					
		Desktop	WebViewer	VisShare	VR-Editio	Automation Server
	<ul style="list-style-type: none"> ▪ Rework of node movements in structure tree #188 #189 	●				
	<ul style="list-style-type: none"> ▪ Structure tree: CSV Export #393 	●	●	●		
	<ul style="list-style-type: none"> ▪ Structure tree: horizontal scrollbar #472 	●				
	<ul style="list-style-type: none"> ▪ Option to turn material rendering off #270 	●	●	●	●	●
	<ul style="list-style-type: none"> ▪ Animated focus (includes translation, rotation and ghosting) #440 	●				
	<ul style="list-style-type: none"> ▪ TIFF 8bpp import #451 	●	●	●		●
	<ul style="list-style-type: none"> ▪ XML-API: GetWallthicknessRollingBallAnalysisResults #396 	●	●	●		●
Fixes:	<ul style="list-style-type: none"> ▪ Solidworks format recognition fix #473 	●	●	●	●	●
	<ul style="list-style-type: none"> ▪ DXF Export: sometimes showed hidden lines #448 	●	●	●		
	<ul style="list-style-type: none"> ▪ DXF Export: circle recognition improved #417 	●	●	●		
	<ul style="list-style-type: none"> ▪ Raster images: export and printing fixed #471 	●	●	●		●
	<ul style="list-style-type: none"> ▪ Improve undercut calculation #271 	●	●	●	●	●
	<ul style="list-style-type: none"> ▪ Handle missing materials correctly #386 	●	●	●	●	●
	<ul style="list-style-type: none"> ▪ Handle geometries after wire removal and generation correctly #483 	●	●	●		●
	<ul style="list-style-type: none"> ▪ Structure tree: fix behavior in large trees #472 	●				
	<ul style="list-style-type: none"> ▪ Fix Callout and Fixed Text positioning for printing and 2D raster export #477 	●	●	●		●
	<ul style="list-style-type: none"> ▪ Skybox: incremental rendering fixed #475 	●	●	●	●	●
	<ul style="list-style-type: none"> ▪ XML-API: GenerateAttribute and GenerateCustomIds fixed for special characters #388 	●	●	●		●

Version:	2022.5.199					
Release date:	2022-08-11					
		Desktop	WebViewer	VisShare	VR-Editio	Automation Server

New:

- **IMPORTANT:**
 - Network licensing (Floating) requires license server version 5.0 or higher
- Import 3D
 - AutoCAD DWG/DXF #181
 - Creo 9
 - Inventor 2023
 - Parasolid 34.1
 - NX 2206
- Export 3D
 - XML-API: Convert VSXML to STEP AP214-CC06 Master file (nested external references) #351
- KAS/API: new command CONVERT_AND_EXECUTE_XML
- First level of attribute names shown as subcategories
- Improve 3DVS and VSXML import performance
- Option to replace the 3D model with a screenshot in templated 3DPDF export

Fixes:

- Save field of view settings in 3DVS files #274
- Show attributes correctly #167
- Improve DXF/SVG export performance
- DXF measurements wrong #349
- PDF format recognition improved #458
- PDF attachment display with unicode characters #416
- Huge STL files crashed #296 #324
- STPX, 3DS, 3MF, Collada: Node name in structure reduced from pathname to filename #361
- Copy text to clipboard: Fix and rework deactivation handling #390

Version:	2022.5.199					
Release date:	2022-08-11	Desktop	WebViewer	VisShare	VR-Editon	Automation Server
▪ Measurement markups: Improve rendering of reference wires #411		●	●	●	●	●
▪ Coordinate systems: visibility fixed, when they are not near geometry #412		●	●	●	●	●
▪ Load fonts with unicode filenames correctly on startup #410		●	●	●	●	●
▪ Correct translation for presets #86			●	●		
▪ Circle markup creation relative to camera #375					●	
▪ Error message when loading 2D documents #375					●	
▪ Section cut controllers, pickray, menu and floor #375					●	
▪ Correct floor shadow in perspective #375		●	●	●	●	

Version:	2022.4.169					
Release date:	2022-07-07	Desktop	WebViewer	VisShare	VR-Editon	Automation Server
New:	▪ IMPORTANT:	●	●	●	●	●
	○ Network licensing (Floating) requires license server version 5.0 or higher					
	▪ Import 3D	●	●	●	●	●
	○ Catia V5-6R2022 (R32)					
	▪ Import 2D	●	●	●	●	●
	○ Creo 9.0					
	○ NX 2019, 2027					
	▪ WebViewer: Server health tests added #69		●	●		

Version:	2022.4.169				
Release date:	2022-07-07				
	Desktop	WebViewer	VisShare	VR-Editio	Automation Server
<ul style="list-style-type: none"> WebViewer: Server blocks incoming requests on high load #69 		●	●		
<ul style="list-style-type: none"> Techdoc/BOM: Option to generate ID with only attribute value #129 	●	●	●		
<ul style="list-style-type: none"> API: Compare two 3D models per URL parameter with Bestfit computation for auto alignment 		●	●		
Fixes:					
<ul style="list-style-type: none"> Creo 8 file loads correctly #233 	●	●	●	●	●
<ul style="list-style-type: none"> NX PRT: handle 2D/3D case correctly #401 	●	●	●		●
<ul style="list-style-type: none"> SLDDRW: correct position of information flags #251 	●	●	●		●
<ul style="list-style-type: none"> UpdateScene rework #161 	●	●	●	●	
<ul style="list-style-type: none"> Improve Split computation time #336 	●	●	●	●	
<ul style="list-style-type: none"> Clash: compute multiple times fix #201 	●	●	●	●	
<ul style="list-style-type: none"> Fix crash in Bestfit computation #368 	●	●	●		
<ul style="list-style-type: none"> Improve clipping plane handling in flythrough/with focus #52 	●	●	●	●	
<ul style="list-style-type: none"> Fix interactions, if section and markup creation are both active #92 	●	●	●	●	
<ul style="list-style-type: none"> Remove undo for configuration view creation #89 	●	●	●		
<ul style="list-style-type: none"> Wrong world bounding box in rare cases #343 	●	●	●	●	
<ul style="list-style-type: none"> Websocket closed behavior optimized for clients that sent connect message #301 		●	●		
<ul style="list-style-type: none"> WebViewer: Copy image to clipboard fix #247 		●	●		
<ul style="list-style-type: none"> Structure & output panes are scaled along with resolution change #230 	●				
<ul style="list-style-type: none"> VR: Skybox fixed #374 				●	

Version:	2022.3.428					
Release date:	2022-05-21					
		Desktop	WebViewer	VisShare	VR-Editon	Automation Server
▪ 3D PDF crashing in rare cases #305		●	●	●	●	●
▪ OBJ: Improve texture visualisation #277		●	●	●	●	●
▪ HPGL with embedded TIF: correct display #82		●	●	●	●	●
▪ Inventor assembly won't open #5181		●	●	●	●	●
▪ Solidworks: wrong transparencies #6583		●	●	●	●	●
▪ Conversion of Solidworks configurations with special characters #286						●
▪ Correct conversion of limited Solidworks configurations #325						●
▪ Markups: fix CustomID, reference and scale handling #252 #299 #300		●	●	●	●	●
▪ Crashes with corrupted wires in rare cases #272		●	●	●	●	●
▪ BOM: copy to clipboard missing information #292			●	●		
▪ Fix anchor for Markups in views #308		●	●	●	●	●
▪ Coordinate system picking highlight #40		●	●	●	●	●
▪ Improve instantiation #123		●	●	●	●	●
▪ Clash volume color always black #239		●	●	●	●	●
▪ Save mouse settings for 2D correctly #55		●	●	●	●	●
▪ Display VSXML CustomIds correctly #313		●	●	●		
▪ Improve transformations including TechDoc markups #160		●	●	●		
▪ Setup will check if the OS is compatible before installing		●	●	●	●	●

Version:	2022.2.167					
Release date:	2022-04-11					
		Desktop	WebViewer	VisShare	VR-Editon	Automation Server

New:

- **IMPORTANT:**
 - Network licensing (Floating) requires license server version 5.0 or higher
- Import 3D
 - NX 2007
 - Solid Edge 2022
 - SolidWorks 2022
- Import 2D
 - CATIA V5-6R2022 (R32)
 - NX 2007, 2008, 2011, 2015
- Layer support for 2D documents #180

Fixes:

- JT PMIs: improve visualization #168
- TIFF: fix loading error #250
- Undercut fix #271
- 2D compare did not work in rare cases #246
- Markup import: use CustomIDs correctly #249
- KAS: fix rare crash during SolidWorks convert #174
- WV: custom-svg-icons.xml moved to www\custom
- WV: index.html, version starts with a '.':


```
<script>var _WVVersion = ".2022.2.167-3d9e160cb0";</script>
```
- WV: svg-icons.xml renamed to match other files versioning style
- WV: references and loader adjusted

Version:	2022.1.136					
Release date:	2022-03-08					
		Desktop	WebViewer	VisShare	VR-Editio	Automation Server

- | | | | | | | |
|---------------|---|---|---|---|---|---|
| New: | <ul style="list-style-type: none"> ▪ IMPORTANT: <ul style="list-style-type: none"> ○ Network licensing (Floating) requires license server version 5.0 or higher ○ New Microsoft Redistributables will be installed during the setup routine. They contain fixes for some OS. ▪ Rework: Shadow rendering #116 ▪ Copy text from 2D files to clipboard #112 ▪ Import setting to load PMIs as 'always on top' | <ul style="list-style-type: none"> ● ● ● ● ● ● ● | <ul style="list-style-type: none"> ● ● ● ● ● ● ● | <ul style="list-style-type: none"> ● ● ● ● ● ● ● | <ul style="list-style-type: none"> ● ● ● ● ● ● ● | <ul style="list-style-type: none"> ● ● ● ● ● ● ● |
| Fixes: | <ul style="list-style-type: none"> ▪ Increase possible datasize in 3DVS files #112 ▪ PMI reference highlighting not displayed in rare cases #184 ▪ KAS: special character handling added #186 ▪ Improve logging | <ul style="list-style-type: none"> ● ● ● ● | <ul style="list-style-type: none"> ● ● ● ● | <ul style="list-style-type: none"> ● ● ● ● | <ul style="list-style-type: none"> ● ● ● ● | <ul style="list-style-type: none"> ● ● ● ● |

Version:	2022.0.296					
Release date:	2022-02-11					
		Desktop	WebViewer	VisShare	VR-Editio	Automation Server

- | | | | | | | |
|-------------|---|---|---|---|---|---|
| New: | <ul style="list-style-type: none"> ▪ IMPORTANT: <ul style="list-style-type: none"> ○ Network licensing (Floating) requires license server version 5.0 or higher | <ul style="list-style-type: none"> ● | <ul style="list-style-type: none"> ● | <ul style="list-style-type: none"> ● | <ul style="list-style-type: none"> ● | <ul style="list-style-type: none"> ● |
|-------------|---|---|---|---|---|---|

Version:	2022.0.296				
Release date:	2022-02-11				
	Desktop	WebViewer	VisShare	VR-Editio	Automation Server

- Import 3D
 - Parasolid 34.0
- Import 2D
 - Solid Edge 2022
 - Solidworks 2022 (SP0)
 - NX 1992, 1996, 2000
- Customize scene lighting (color/brightness) #138
- Increase node luminosity #138
- CATIA: PMI references to solids #50
- Setting to load prototype views #51
- Setup creates backup of presets.xml

Fixes:

- JT to 3DVS: PMI text correctly exported #49 #105
- E57: loading error when UTF8 characters in filepath #109
- FBX: loading error in rare cases #119
- CATDrawing: won't open #6765
- CATDrawing: wrong curves #6876
- DFT: wrong measurement #6912
- DFT: won't open #7195
- PDF: no background/wrong background color #124 #149
- DXF/SVG Export: lines missing #17 #53
- CGM Export fixed #18
- Open 3D scene for Office documents

Version:	2022.0.296				
Release date:	2022-02-11				
	Desktop	WebViewer	VisShare	VR-Editio	Automation Server
▪ Improve volume calculation #47	●	●	●		
▪ Loading error when UTF8 characters are in filepath #81		●	●		
▪ Transform: Free drag not working #44		●	●		
▪ PMI properties: change font #59		●	●		
▪ Support info zipfile was not created #20	●			●	
▪ XML-API: ImportConfigurationViews fix #39	●	●	●		

Version:	2021.1.835				
Release date:	2021-11-10				
	Desktop	WebViewer	VisShare	VR-Editio	Automation Server
New:	●	●	●	●	●
▪ IMPORTANT:					
○ Network licensing (Floating) requires license server version 5.0 or higher					
▪ Import 3D	●	●	●	●	●
○ ACIS 2021 1.0					
▪ Import 2D	●	●	●		●
○ NX 1980, 1984, 1988					
○ 2D DWG/DXF: option to load multiple layouts #7020 #2841 #5938 #6557 #6791					
▪ Calculate Inertia	●	●	●		●
▪ TIF: change contrast #7252	●	●	●		

Version:	2021.1.835					
Release date:	2021-11-10					
		Desktop	WebViewer	VisShare	VR-Editon	Automation Server

Fixes:

- FBX Export: Root nodes missing #7122 ● ● ● ●
- SolidWorks configurations: incorrect display of parts #6953 ● ● ● ●
- CATIA files could not be opened #7102 ● ● ● ●
- PLMXML: some files could not be opened #7224 ● ● ● ●
- Crash of PDFs in rare cases #7187 ● ● ● ●
- Speed up deletion of views #7089 ● ● ● ●
- 2D text search: Position of highlighting #6804 ● ● ● ●
- Coloring faces #7029 ● ● ● ●
- Export convex hull #7046 ● ● ● ●
- Optimize update view navigation #7211 ● ● ● ●
- Print of large 2D files #7242 ● ● ● ●
- Correct filepaths in VSXML export #7199 ● ● ● ●
- Picking performance #7230 ● ● ● ●
- Clean up node IDs of markups #7226 ● ● ● ●
- Fix circle selection for various measurement functions #7120 ● ● ● ●
- TechDoc callouts: export fix #7173 ● ● ● ●
- TreePath on root level now unique #7156 ● ● ● ●
- Minimal bounding box: crash in rare cases #7129 ● ● ● ●
- Default language after installation #7193 ● ● ● ●
- XML-API: add SetSelectFaces #7165 ● ● ● ●

Version:	2021.1.835					
Release date:	2021-11-10					
		Desktop	WebViewer	VisShare	VR-Editio	Automation Server

- XML-API: add GetNodeTransformMatrix #7137
- XML-API: get/set camera using wrong position #7124
- XML-API: setting a CustomId (SetNodeProperties) resets constraints on child nodes fixed #7170

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Version:	2021.1.424					
Release date:	2021-09-01					
		Desktop	WebViewer	VisShare	VR-Editio	Automation Server

New:

- **IMPORTANT:**
 - Network licensing (Floating) requires license server version 5.0 or higher
 - Updated Microsoft Redistributables are needed (will be installed during the setup routine)
- Import 2D
 - TIFF performance increased #7070
- 2D measurements: choose document scale #6787
- Search: PMI, markup, text added #7019
- Wall thickness heatmap: option to keep preferred values #6988

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Fixes:

- FBX export: prevent export of deleted geometries #7086
- VSXML export: physical properties will be written #6972

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•	•	•	•	•

Version:	2021.1.424				
Release date:	2021-09-01				
	Desktop	WebViewer	VisShare	VR-Editio	Automation Server
<ul style="list-style-type: none"> ▪ Improve visibilities after transformation or rotation #7050 ▪ Length measurement: prevent crash #7085 #7105 ▪ Markup text: improve multiline handling #7033 ▪ Change path for logging to AppData directory #7025 ▪ VR: improve logging #7009 ▪ VR: improve screenshots #7010 	●	●	●	●	
	●	●	●	●	
	●	●	●	●	
	●			●	
				●	

Version:	2021.1.11				
Release date:	2021-08-11				
	Desktop	WebViewer	VisShare	VR-Editio	Automation Server
New:	●	●	●	●	●
<ul style="list-style-type: none"> ▪ IMPORTANT: <ul style="list-style-type: none"> ○ Network licensing (Floating) requires license server version 5.0 or higher ○ Updated Microsoft Redistributables are needed (will be installed during the setup routine) ▪ Import 3D <ul style="list-style-type: none"> ○ Inventor 2022 ▪ Optional prompt to save when closing a scene #6966 ▪ References for dimensionings of surfaces and edges ▪ VR menu settings will be saved 	●	●	●	●	●
	●				
	●	●	●		
				●	

Version:	2021.1.11					
Release date:	2021-08-11					
		Desktop	WebViewer	VisShare	VR-Editio	Automation Server

- Fixes:**
- Optimization of visualization of coordinate systems #6922 ● ● ● ● ●
 - Clash: set transparency of collision pair correctly #6934 ● ●
 - 3DConnexion Controller: handling optimized #7043 ● ● ●
 - Solidworks: ASM could not be opened #6865 ● ● ● ● ●

Version:	2021.0.132	Recommended Version				
Release date:	2021-07-20					
		Desktop	WebViewer	VisShare	VR-Editio	Automation Server

- New:**
- **IMPORTANT:** ● ● ● ● ●
 - Network licensing (Floating) requires license server version 5.0 or higher
 - New 3DVS format V17. 3DVS files exported with this version are not compatible with pre-2021 versions of 3DViewStation
 - Updated Microsoft Redistributables are needed (will be installed during the setup routine)
 - Import 3D ● ● ● ● ●
 - Catia V5-6 R2021
 - NX - Unigraphics 1980
 - Parasolid 33.1
 - Creo 8
 - Import 2D ● ● ● ●
 - Creo 8
 - NX 1965, 1969, 1973

Version:	2021.0.132	Recommended Version				
Release date:	2021-07-20					
		Desktop	WebViewer	VisShare	VR-Editio	Automation Server

- Fixes:**
- JT: Views were missing in rare cases #6859 ● ● ● ● ●
 - NX: 3D files show empty 2D document #6964 ● ● ● ● ●
 - CATDrawing issues fixed #6765 #6876 ● ● ● ● ●
 - Solid Edge drawing issues fixed #3154 #4707 #6912 ● ● ● ● ●

Version:	2021.0.124					
Release date:	2021-07-02					
		Desktop	WebViewer	VisShare	VR-Editio	Automation Server

- New:**
- **IMPORTANT:** ● ● ● ● ●
 - Network licensing (Floating) requires license server version 5.0 or higher
 - New 3DVS format V17. 3DVS files exported with this version are not compatible with pre-2021 versions of 3DViewStation
 - New FBX Im-/Exporter ● ● ● ● ●
 - Import: all versions
 - Improved load time #6410
 - Export: binary 7.5
 - Export coordinate system #6081
 - Export correct scaling #5683
 - Selection mode: Face ● ● ● ● ●
 - Change the color of faces: Add vertex colors #6946 ● ● ● ● ●

Version:	2021.0.124					
Release date:	2021-07-02					
		Desktop	WebViewer	VisShare	VR-Editon	Automation Server
	<ul style="list-style-type: none"> ▪ Measurement: Cumulated area #4099 	●	●	●		
	<ul style="list-style-type: none"> ▪ Measurement: Distance point to face #3379 	●	●	●		
	<ul style="list-style-type: none"> ▪ Transform: Boundary conditions: X, Y and Z axis added #5615 	●	●	●		
	<ul style="list-style-type: none"> ▪ VSXML: XSD for validation 	●	●	●	●	●
	<ul style="list-style-type: none"> ▪ XML-API: <ul style="list-style-type: none"> ○ New method for writing custom log messages to renderer instance log files and feature usage logging ○ Reference to part Nodelds and Customlds added in VSXML for measurement markups ○ Camera Zoom/Pan limits ○ OpenFile extended: Load from URL 	●	●	●		
Fixes:	<ul style="list-style-type: none"> ▪ VSXML import: improve performance #6473 #6976 	●	●	●	●	
	<ul style="list-style-type: none"> ▪ Parasolid: improve format recognition #6897 	●	●	●	●	●
	<ul style="list-style-type: none"> ▪ Improve visibility while viewing: remove flickering #6891 	●	●	●	●	
	<ul style="list-style-type: none"> ▪ Clash computation #6921 		●	●		
	<ul style="list-style-type: none"> ▪ Presets/properties: materials and density consolidated #6608 	●	●	●	●	●
	<ul style="list-style-type: none"> ▪ Performance of measuring improved #6890 	●	●	●	●	
	<ul style="list-style-type: none"> ▪ Face highlights during measurement improved #6417 	●	●	●	●	
	<ul style="list-style-type: none"> ▪ Circle recognition improved #4519 	●	●	●	●	
	<ul style="list-style-type: none"> ▪ Setup: added default installation path for silent installation #6913 	●	●	●	●	●
	<ul style="list-style-type: none"> ▪ Setup: use user-defined path #6950 	●	●	●	●	●
	<ul style="list-style-type: none"> ▪ Remember user-defined accelerator keys #6915 	●				

Version:	2021.0.124					
Release date:	2021-07-02					
		Desktop	WebViewer	VisShare	VR-Editio	Automation Server

- Session sharing: server side rework, spectator client optimized
- IPC fix for interprocess synchronization and communication problem on high server CPU load
- XML-API: call execution improved #6626

●	●
●	●
●	●

Version:	2021.0.95					
Release date:	2021-05-10					
		Desktop	WebViewer	VisShare	VR-Editio	Automation Server

New:

- **IMPORTANT:**
 - Network licensing (Floating) requires license server version 5.0 or higher
 - New 3DVS format V17. 3DVS files exported with this version are not compatible with pre-2021 versions of 3DViewStation
- Import 3D
 - JT 10.5 #6718
 - NX - Unigraphics 1953
 - Parasolid 33
 - Rhino3D 7
- Export 3D
 - GL Transmission Format 2.0 #5566
- Import 2D
 - CATIA V5-6R2021 (R31)
 - NX: 1953, 1957 and 1961
- GUI: Bounding box measurement optimized
- 3D-Markups: Multiple references to curves and faces

●	●	●	●	●
●	●	●	●	●
●	●	●	●	●
●	●	●	●	●
●	●	●	●	●
●	●	●	●	●

Version:	2021.0.95					
Release date:	2021-05-10					
		Desktop	WebViewer	VisShare	VR-Editon	Automation Server

- Offset lines are now removable (by GUI and API) #6705 ● ● ●
- 3D-Markups: Variables and attributes can be used and line breaks can be set comfortably (GUI and API) ● ●
- VR: Different controller models can be displayed ●
- Ad hoc session sharing with multiple users ● ●

Fixes:

- Markup export: Node ID & Custom ID added ● ● ●
- Markup creation stability improved #6600 ● ● ●
- SolidEdge: Position of some lines were not correct #6345 ● ● ● ● ●
- PLMXML: Sequence number added to attributes #3799 ● ● ● ● ●
- XML-API:
 - Fly mode rework #6589 #6770 ● ● ●
 - Distance controllable camera alignment in fly mode
 - Align horizon in fly mode
 - Undo function includes node properties
- 2D-DWG: performance improved #6808 ● ● ● ●
- 2D-DWG: PDF export resulted in empty scene in Adobe Acrobat Reader #6695 ● ●
- 2D Compare improved #6552 #3436 ● ● ●
- 3D-PDF: Stability of PMI handling improved #6522 ● ● ● ●
- Print dialog: Scale setting improved #6595 ● ● ●
- CATIA: Missing PMI text in rare cases #6848 ● ● ● ● ●
- CATIA: PMI alignment improved #6768 ● ● ● ● ●

Version:	2021.0.95					
Release date:	2021-05-10					
		Desktop	WebViewer	VisShare	VR-Editio	Automation Server

- SolidWorks: Structure tree optimized #5918 ● ● ● ● ●
- Stability of drag&drop file import improved #6799 ●

Version:	2021.0.6					
Release date:	2021-02-26					
		Desktop	WebViewer	VisShare	VR-Editio	Automation Server

- New:**
- **IMPORTANT:** ● ● ● ● ●
 - Network licensing (Floating) requires license server version 4.9.22 or higher
 - New 3DVS format V17. 3DVS files exported with this version are not compatible with older versions of 3DViewStation
 - Import 3D ● ● ● ● ●
 - 3D Manufacturing Format (3MF) 1.2.3
 - MineCraft
 - Revit 2021
 - Solid Edge 2021
 - Export 3D ● ● ● ● ●
 - 3DVS V17
 - MineCraft
 - WaveFront OBJ
 - Import 2D ● ● ● ●
 - SVG
 - 2D: Transformations available ● ● ●
 - Align camera vertical to a face ● ● ●
 - BOM: Configuration of shown attributes ● ● ●

Version:	2021.0.6					
Release date:	2021-02-26					
		Desktop	WebViewer	VisShare	VR-Edition	Automation Server

- BOM: Generating of callout ID by attributes ● ● ●
- BOM: Physical properties ● ● ●
- Convert dialog: Prefer geometry / prefer tessellation added ●
- Convex hull: Calculation speed improved ● ● ● ●
- Coordinate systems settings added and ribbon menu reorganized ● ● ●
- Create point at intersection of two lines ● ● ●
- Draft: Undercut analysis ● ● ● ● ●
- Export of views overview to PDF ● ● ●
- Import progressbar ● ● ●
- Markups: User defined attributes ● ● ●
- Measurement: Distance solids to solids ● ● ●
- Minimal bounding box - Exact: Calculation speed improved ● ● ● ●
- Ribbon: Measurement reorganized ● ● ●
- Section: Create orthogonal to a line ● ● ●
- Section: Cut geometry with geometry colors possible ● ● ●
- Selection mode: PMI reference ● ● ● ●
- Setup wizard supports update of WebViewer / VisShare ● ● ●
- Snap mode for snapping mid- or endpoints of lines and edges ● ● ● ●
- Statusbar: Cursor coordinates ●
- Statusbar: Format version ●

Version:	2021.0.6					
Release date:	2021-02-26					
		Desktop	WebViewer	VisShare	VR-Edition	Automation Server

- Support of textures: 3DVS, 3MF, DAE, FBX, GLTF, OBJ, U3D ● ● ● ● ●
- Turntable mode: Settings for detailed configuration ● ● ●
- Views: Context menu to activate only the camera or the state of views ● ● ●
- Views: Import setting to apply **ZOOM: FIT ALL** to all views ● ● ● ●
- VisShare: Mobile UI version for smartphones & tablets ●
- VR: Camera rotatable via thumbstick or touchpad of the controller ●
- VR: Feedback message boxes ●
- VR: Help menu ●
- VR: New design of Teleport with head height ●
- XML-API: New method ExportViewsAsPDF ● ● ●
- XML-API: New method GetSearchableNodeTypes ● ● ●

Fixes:

- 2D: Zooming improved #6227 ● ● ●
- CATDrawing: RAM usage optimized #6030 ● ● ● ●
- DOC/XLS/PPT couldn't be opened #6519 ● ● ● ●
- FBX: Import of colors #6092 ● ● ● ●
- Improvements of stability when importing models with many root nodes #6486 ● ● ● ● ●
- JT: Import of prototype attributes #6495 ● ● ● ●
- KAS: Generated screenshots of 3DVS files were ●

Version:	2021.0.6					
Release date:	2021-02-26					
		Desktop	WebViewer	VisShare	VR-Editon	Automation Server

empty in rare cases #6349

- Markups: Improvement of markup creation in perspective mode with large models #6478

●	●	●		
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- Minimal bounding box: Improvement of markup alignment #6504

●	●	●	●	
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- PMI-Highlighting improved #6670

●	●	●	●	
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- Raster formats: Improvement of scaling and dimensioning with calibration factor #6479 #6338 #6303 #6434 #6551

●	●	●		●
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- Software distribution: VR icon is no longer created #6511

●			●	
---	--	--	---	--
- SolidWorks: EPM vault storage supported #6481

●	●	●	●	●
---	---	---	---	---
- SVG: Export of section colors and cut geometries #5775

●	●	●		●
---	---	---	--	---
- Vertex colors were not correctly applied in views #6324

●	●	●	●	
---	---	---	---	--
- Wallthickness heatmap: Improved visualization #6415

●	●	●	●	
---	---	---	---	--
- WebViewer: Sessions in standby can be continued #6277

	●	●		
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Version:	2020.1.410	Recommended Version				
Release date:	2021-01-14					
		Desktop	WebViewer	VisShare	VR-Editon	Automation Server

New: ▪ **IMPORTANT:**

●	●	●	●	●
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Version:	2020.1.410	Recommended Version				
Release date:	2021-01-14					
		Desktop	WebViewer	VisShare	VR-Editio	Automation Server

Network licensing (Floating) requires license server version 4.9.22 or higher

Fixes:	<ul style="list-style-type: none"> ▪ Import 3D <ul style="list-style-type: none"> ○ SolidWorks 2021 ▪ Import 2D <ul style="list-style-type: none"> ○ CATIA V6 / 3DEXperience R2021x ○ NX: 1938, 1942 and 1946 ○ Solid Edge 2021 ○ SolidWorks 2021 ▪ Unattended installation: Desktop icons were not created in some cases #6511 ▪ Minimal bounding box: Wrong orientation #6504 ▪ SolidWorks: EPM vault storage files can't be opened #6481 	●	●	●	●	●
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Version:	2020.1.395	Recommended Version				
Release date:	2020-11-20					
		Desktop	WebViewer	VisShare	VR-Editio	Automation Server

New:	<ul style="list-style-type: none"> ▪ IMPORTANT: Network licensing (Floating) requires license server version 4.9.20 or higher 	●	●	●	●	●
Fixes:	<ul style="list-style-type: none"> ▪ Network licensing (Floating): License borrowing for offline use #6405 	●				

Version:	2020.1.385	Recommended Version				
Release date:	2020-10-20	Desktop	WebViewer	VisShare	VR-Editon	Automation Server

- **MEASUREMENT - SOLID TO SOLID:** Performance improved
 - Desktop
 - WebViewer
 - VisShare
 - VR-Editon
- **EXPLODE:**
 - On selections
 - Desktop
 - WebViewer
 - VisShare
 - Restriction to certain directions
- All created views can be automatically generated into single PNGs or as multi-page PDF including physical properties
 - Desktop
 - WebViewer
 - VisShare
 - Automation Server
- KAS method: export views
- Catia: Setting to import only captures (without views) #5700
 - Desktop
 - WebViewer
 - VisShare
 - VR-Editon
 - Automation Server
- Setting to hide the rotation mouse pointer
 - Desktop
 - WebViewer
 - VisShare
- 2D: Calibration added #5692
 - WebViewer
 - VisShare
- Save as 3DVS-format
 - VR-Editon
- **FONT SUBSTITUTION:**
 - Desktop
 - Button in settings pane to open the FontSubstitution.csv
 - The font substitution suggestion is inserted as a comment
- Default substitution font changed from Arial to MyriadCAD for better support of special characters and symbols
 - Desktop
 - WebViewer
 - VisShare
 - VR-Editon
 - Automation Server
- API: IFC Get/SetBCFVisualizationInfo with unit (default: meter) #6033
 - Desktop
 - WebViewer
 - VisShare
 - VR-Editon
 - Automation Server
- PMI: Possibility to edit all text fields
 - WebViewer
 - VisShare
- Color adjustment is possible directly by entering hexadecimal or RGB values
 - Desktop
 - WebViewer
 - VisShare
- Optimized **OUTPUT** window:
 - The output window is now managed per scene
 - Desktop
 - The new tab "General" contains feedback on network licensing
 - New Setting: Enhanced loading statistics (progress tab)
- Setting to change the log level
 - Desktop
 - VR-Editon

Version:	2020.1.385	Recommended Version				
Release date:	2020-10-20					
		Desktop	WebViewer	VisShare	VR-Edition	Automation Server

- JT: Import setting for (quality) level of tessellation
- 2D: Enhanced zoom level
- PDF: Support of embedded JT files

Fixes:

- Physical Properties: Wrong volume calculation in native CAD models #6276
- PLMXML / VSXML: Import progress status information #5767
- SolidWorks SpeedPak: Assembly couldn't be imported #4950
- SolidWorks: Improved loading performance #6261
- SolidWorks: Assembly didn't load with 'Prefer BREP'
- Structure tree: Vertical scrollbar disappeared after Drag and Drop #5603

Version:	2020.1.328					
Release date:	2020-09-11					
		Desktop	WebViewer	VisShare	VR-Edition	Automation Server

New:

- **IMPORTANT:** Network licensing (Floating) requires license server version 4.9.20 or higher.

Version:	2020.1.328					
Release date:	2020-09-11					
		Desktop	WebViewer	VisShare	VR-Editon	Automation Server

- Minimum system requirements changed. ●
- **NEW SETUP WIZARD:**
 - Includes all KISTERS 3DViewStation products. ●
 - Revised comfortable user guidance. ●
 - Optimised software distribution for desktop products. ●
- **HELPCENTER:** Online knowledge base for end users and administrators. Offline fallback included. ●

Fixes:

- VSXML: Stability improvements #6183 ●
- **EXTRACT FACES:** Stability improvements #6218 ●
- View transition mismatch and initial view issues fixed ●
- Missing images after importing views ●
- View transition ghost state issues fixed ●
- API: UpdateScene error handling optimized ●
- API: Views play animated transition handling available ●

Version:	2020.1.298					
Release date:	2020-08-26					
		Desktop	WebViewer	VisShare	VR-Editon	Automation Server

New:

- **IMPORTANT:** ●
- Network licensing (Floating) requires license server ●

Version: 2020.1.298

Release date: 2020-08-26

	Desktop	WebViewer	VisShare	VR-Editio	Automation Server
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version 4.9.20 or higher.

- | | | | | | |
|---|---|---|---|---|---|
| <ul style="list-style-type: none"> ▪ Minimum system requirements changed. | ● | | | | ● |
| <ul style="list-style-type: none"> ▪ NEW SETUP WIZARD: <ul style="list-style-type: none"> ○ Includes all KISTERS 3DViewStation products. ○ Revised comfortable user guidance. ○ Optimized software distribution for desktop products. | ● | ● | ● | ● | ● |
| <ul style="list-style-type: none"> ▪ HELPCENTER: Online knowledge base for end users and administrators. Offline fallback included. | ● | ● | | ● | ● |
| <ul style="list-style-type: none"> ▪ Import 3D <ul style="list-style-type: none"> ○ ACIS 2020 ○ CATIA V5-2020 ○ Creo 7.0 ○ JT 10.3 ○ Inventor 2021 | ● | ● | ● | ● | ● |
| <ul style="list-style-type: none"> ▪ Import 2D <ul style="list-style-type: none"> ○ CATIA V6 / 3DExperience R2020x ○ ProE / Creo Parametric 7.0 ○ NX: 1911, 1915, 1919 | ● | ● | ● | ● | ● |
| <ul style="list-style-type: none"> ▪ VSXML: Performance improvements #5388. | ● | ● | ● | ● | ● |
| <ul style="list-style-type: none"> ▪ MicroStation .DGN format support discontinued. | ● | ● | ● | ● | ● |
| <ul style="list-style-type: none"> ▪ BAND ANALYSIS | ● | ● | ● | | |
| <ul style="list-style-type: none"> ▪ MEASUREMENT - ANGLE: Line to line (projected). | ● | ● | ● | | |
| <ul style="list-style-type: none"> ▪ MEASUREMENT - SOLID TO SOLID: Performance improved. | ● | ● | ● | ● | |
| <ul style="list-style-type: none"> ▪ EXPLODE: <ul style="list-style-type: none"> ○ On selections ○ Restriction to certain directions | ● | ● | ● | | |
| <ul style="list-style-type: none"> ▪ VIEWS can be conveniently exported as PNGs or, including the physical properties, as PDF. | ● | ● | ● | | ● |

Version: 2020.1.298
Release date: 2020-08-26

Desktop	WebViewer	VisShare	VR-Editon	Automation Server
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- Catia: Setting to import only the captures (without views) #5700. ● ● ● ● ●
- Setting to hide the rotation mouse pointer. ● ● ●
- 2D: Calibration added #5692. ● ●
- Save as 3DVS-format. ●
- **FONT SUBSTITUTION:**
 - Button in settings pane to open the FontSubstitution.csv. ●
 - The font substitution suggestion is inserted as a comment.
- Default substitution font changed from Arial to MyriadCAD for better support of special characters and symbols. ● ● ● ● ●
- API: IFC Get/SetBCFVisualizationInfo with unit (default: meter) #6033. ● ● ● ● ●
- API: New focus method - variable transition to show the area of selected objects. ● ● ● ● ●
- PMI: Possibility to edit all text fields. ● ●
- Color adjustment is possible directly by entering hexadecimal or RGB values. ● ● ●
- Optimized **OUTPUT** window:
 - The output window is now managed per scene. ●
 - The new tab "General" contains feedback on network licensing.
 - New Setting: Enhanced loading statistics (progress tab).
- Setting to change the log level. ● ●

Fixes:

- **EXTRACT SURFACES:** Failed in rare cases #5861, #5647. ● ● ● ●
- **GHOST TRANSPARENCY** wasn't applied immediately #6050. ● ● ● ● ●

Version: 2020.1.298

Release date: 2020-08-26

	Desktop	WebViewer	VisShare	VR-Edition	Automation Server
▪ NEIGHBORHOOD SEARCH: Stability improvements #6012.	●	●	●		●
▪ WALLTHICKNESS HEATMAP: Wrong results with ray method in rare cases #5678.	●	●	●	●	●
▪ CIRCLE DETECTION: Failed in rare cases #5815.	●	●	●	●	
▪ 3DVS: Problem when loading very large models in the Webviewer.		●			
▪ Creo: Section over more than one structure level #756.	●	●	●	●	●
▪ 2D Drawings: Markups were displayed on all pages #4880.	●	●	●		●
▪ 2D DXF: Missing lines in rare situations #5528 #5645 #5909.	●	●	●		●
▪ 2D DXF: Wrong scaling in rare cases #5537.	●	●	●		●
▪ FBX export: Surfaces sometimes had wrong colors #4537.	●	●	●	●	●
▪ IFC: Lines caused an empty scene in rare cases #5901.	●	●	●	●	●
▪ JT: Convert from 3DVS not possible in rare cases #5176.	●	●	●		●
▪ NX: Missing attributes in 'No category' #3728.	●	●	●		●
▪ STEP: Attributes with \$ characters weren't shown correctly #5627.	●	●	●		●
▪ STEP: PMIs were transparent #5006.	●	●	●	●	●
▪ SVG export: Node color was ignored when a vertex color was set #5777.	●	●	●		●
▪ VDA: Stability improvements #5488.	●	●	●	●	●
▪ API: BCF default visibility fixed #6086.	●	●	●	●	●
▪ API: UpdateScene / SetSelectedNodes by CustomId #5963.	●	●	●	●	●
▪ API: Ghost / Constraints GhostLocked - Initial view, wrong state of ghosted nodes #5963.	●	●	●	●	●

Version:	2020.0.40	Recommended Version
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Release date: 2020-05-12

Fixes:

- **DESIGNS:** Missing menu elements #5608
- **PROJECTED AREA:** Unit correction if scene unit is not mm #5763
- **POINT COORDINATE MEASUREMENT:** Consideration of the active coordinate system #5749
- Stability improvements #5804 #5794 #5829

Version:	2020.0.29	Recommended Version
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Release date: 2020-04-15

Fixes:

- **NEIGHBORHOOD SEARCH:** Crash when changing input without selection #5741
- Opening files with double click #5742

Version:	2020.0.22	Recommended Version
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Release date: 2020-04-09

New:

- Import 3D
 - NX 1899
 - Revit 2020
 - Parasolid v32.0
- Import 2D
 - CATIA: V5-6R2020 (R30)
 - NX: NX 1899, NX 1903, NX 1904, NX 1907
- Update 3DVS format to version 16 (incompatible to 3DViewStation 2019.1 and older)
- **SAVE AS** contains all 3D & 2D export formats. Additional screenshot export option in menu **TOOLS**
- Font recognition and replacement for 2D drawings (2D advanced licensed)
- Renaming of **FILTER** to **SEARCH** in menu **TOOLS**
 - Added case sensitivity option #3996
 - Search for content in PMIs, markups and text
- Clash detection:
 - Intersection volume
 - Intersection curves
 - Penetration depth
 - Performance improvement
- **NEIGHBORHOOD SEARCH:**
 - Linear distance
 - Box trap
- Status bar with additional information

Version: 2020.0.22

Recommended Version

- **MERGE OBJECTS** in menu **MODEL**
- New UI designs (accessible via settings)
- New UI layouts (accessible via settings)
- Update of Microsoft Redistributables
- DropConvert support discontinued
- HiCAD importer support discontinued
- Windows 32-bit support discontinued

Enhancements:

- 2D: Create document background setting #2996
- Color palette can be customized via `Presets.xml` #5598
- API: Import/Export of BCF Collaboration View #4877
- API: Define initial view from current state #5458
- API: SearchNodes with CustomID #5629

Fixes:

- Gerber: Models were opened as text files #5665
- PLMXML: Empty files when exporting to 3D format #5698
- STEP AP242: Tessellation export issue #4775
- API: Callout projection event issues #5651
- Copy and paste problems of nodes #5543 #5575
- Improved alignment for newly created coordinate systems (normal and circle center) #5455
- Incorrect positioning of instanced parts #5569 #5656
- Lines and markups disappeared when importing another model in a scene #4941
- Lines are not displayed correctly #5486
- Opening of files with double click #5606
- Irregular problems when opening models with many instances #5638
- **IP PROTECTION - DELETE INVISIBLE:** Issue when computed on faces #5581
- Wrong camera position when a view with active flight mode is activated #5414

Version: 2019.1.132

Release date: 2020-02-17

Enhancements:

- Start up speed of 3DViewStation increased

Fixes:

- Hotfix for 2019.1.126: Windows 7 support
- Bounding Box Extents #4010
- Added setting for volume unit #5385

Version: 2019.1.126

Release date: 2020-02-11

New:

Version: 2019.1.126

- Update 3DVS format to version 15 (incompatible to 2019.0 and older)
- New Redistributables 2019 added to the setup. Installation is required.
- NX 1872
- NX Drawings 1892
- Solid Edge 2020
- Solid Edge Drawings 2020
- SolidWorks Drawings 2020
- Font recognition and multiple font substitution for drawings #4752
- Colors for e57 point clouds
- API: 2D callout projection

Enhancements:

- Added hierarchically merge mode in ribbon Model
- Import setting ignore views by name now considers wildcard (*)
- Added support for more CATIA attributes types #5312
- Added version number to title bar
- Improve e57 point cloud import #5275
- Support of additional fonts in drawings #2804 #5024
- STEP AP242: Export of markups #5014
- Filter renamed to Search (ribbon Tools)
- Added Search option: Case sensitive #3996
- Added Search option to find content of markups/PMIs
- New options for wire coloring of solids #3371

Fixes:

- Improved display of Solid Edge drawings #2408
- Convert specific CATPart to Parasolid #2669 #4746
- Wrong PDF extents #4403
- 3DXML with many structure levels causes slow import #4435
- STEP AP242 export with tessellation only #4775
- Changing boundary conditions while a transformation tool is active #5078
- 3D-PDF: Export markups #5154
- SVG exports only visible #5177
- API: File open crash #5268
- User folder in hidden network share is supported #5270
- Render materials #5314
- Incorrect placement of dimensions with activated coordinate system #5319
- VSXML: Correct display of markups and callouts #5340
- Save correct scaling of merged objects #5374
- Camera alignment in Flythrough mode #5414
- 3DVS: Load model as saved #5422
- KAS: Conversion fails #5475

Version: 2019.1.53

Release date: 2019-12-19

Enhancements:

- Added new search options to the neighborhood search:
 - Box
 - Linear distance

Version: 2019.1.53

Fixes:

- Export only visible geometries for vector graphics #5177
- Problems with opening CATIA data fixed #5206
- Instancing of geometries caused issues #5133

Version: 2019.0.721

Recommended Version

Release date: 2020-02-17

Fixes:

- Hotfix for 2019.0.720: Windows 7 support

Version: 2019.0.720

Recommended Version

Release date: 2020-02-11

New:

- New Redistributables 2019 added to the setup. Installation is required.
- NX 1872
- NX Drawings 1892
- Solid Edge 2020
- Solid Edge Drawings 2020
- SolidWorks Drawings 2020

Fixes:

- Improved display of Solid Edge Drawings #2408
- Convert specific CATPart to Parasolid #2669 #4746
- 3DXML: Many structure levels causes slow import #4435
- STEP AP242 export with tessellation only #4775
- SVG exports only visible #5177
- API: File open crash #5268
- User folder in hidden network share is supported #5270
- Incorrect placement of dimensions with activated coordinate system #5319

Version: 2019.0.715

Recommended Version

Release date: 2019-11-25

Fixes:

- Instancing of geometries caused issues #5133, #5121
- CATDrawing: Line breaks are ignored #4925

Version:	2019.0.677	Recommended Version
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Release date: 2019-10-16

New:

- UI change: Add 2D and 3D export buttons (screenshots and exchange formats).
- Setting for default 3D export format (instead of last used)
- CATDrawing: R29 (V5-6R2019)
- Creo Drawing: 6.0
- NX Drawing: NX 1872 Series until 1884
- SolidEdge Drawings 2019
- Solidworks Drawings 2019

Enhancements:

- Automatic backup of settings before manual reset to defaults

Fixes:

- 3D PDF: Problem with template "Toplevel" #3168
- CATDrawing: Missing text #3837
- CATDrawing: Line width correctly rendered #2460
- CATDrawing: Loading problem #3764
- CATDrawing: Missing line breaks #4925
- IFC: Import with instancing #5043
- SolidWorks & SolidEdge Drawings: Loading problem #4077
- STEP: Wrong transformation #4774
- Section: Rendering problems #4947 #4168
- JT: PMI visibility in views #5013

Version:	2019.0.609	Recommended Version
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Release date: 2019-08-27

New:

- Export progressbar
- CATIA V5-6 R2019 (R29)

Enhancements:

- Ribbon layout change without restart of application
- Wallthickness heatmap: Default preset set to **ROLLING BALL BASED - DETAILED**
- 2D: Consideration of line width
- FBX: Export of colors & transparencies improved
- Minimal bounding box: quick & precise calculation
- Performance of VSXML with referenced 3DVS files improved

Fixes:

- Administrate server button #4613
- BOM: handling of attributes #4677
- BOM: Export to CSV when using Japanese & Korean language #4770
- Transformation of coordinate systems #4704
- 2D: Symbols in fonts #4494

Version:	2019.0.609	Recommended Version
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- 2D: File handle not closed #3239
- 2D: SolidWorks & SolidEdge Drawings #4077
- 3DVS: PMIs missing #4783
- CATDrawing: Viewing problem #3764
- Standby mode of graphic card #4756

Version:	2019.0.529
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Release date:	2019-07-12
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New:

- New option for axis aligned camera control
- CREO 6
- Inventor 2020
- NX (v1847)
- Parasolid v31.1

Enhancements:

- TechDoc: Ribbon menu improved
- TechDoc: Automatic association of renamed callout IDs
- Changing the interface design via the settings menu
- Inventor: Support of representations

Fixes:

- CREO: Import not possible #4622
- DWG: Import not possible #3640
- GTL: Imported as text file #4576
- Inventor: False transformation #2270 + #3105
- JT 10.3: Import not possible #4602
- JT: Missing PMI text #4124
- JT: With materials leads to false transparency #4344
- NX: Incorrect display of surfaces #3217
- NX: Missing faces in exact compare #3860
- STEP: Bad representation of letters #3879
- BOM based on selection #4358
- CATDrawing: Loading from folders with umlauts #4293
- Text search with Japanese characters #4324
- Licensing: lock-file problem with network licenses #2965
- Minimal bounding box with activated coordinate system #4260

Version:	2019.0.420
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Release date:	2019-04-25
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New:

- TechDoc: Text markup with fixed position in viewport

Fixes:

Version: 2019.0.420

- NX files could not be opened #3441 #4189 #3516
- GLTF: Transparency wrong #3700
- STEP could not be opened #3885
- SolidEdge: Wrong attributes #1993
- GLB: Could not be opened #3886
- KAS license error #2826
- No surface area could be calculated from projected areas #3613
- Incorrect selection of points #3931
- Font substitution does not work #4256
- SWX: Import very slow with prefer tessellation #4257
- 3DVS from 2019.0 crashes 2018.0 #4262
- CREO: Tessellation error open shells #4277
- Attributes are not read in correctly #1993
- White background in drawing ensures that font is not visible #2811

Version: 2019.0.383

Release date: 2019-04-09

Enhancements:

- PLMXML-Setting:
- interpret all transformations as global transformations

Fixes:

- Pickray causes crash #3844
- SolidWorks: Transformations wrong #4166
- Custom presets.xml suppresses the import dialog #4237
- STPX: Transformations wrong #3791

Version: 2019.0.340

Release date: 2019-03-21

New:

- Kisters Automation Server (KAS) can convert to 2D vector files #3699
- ActiveX:
 - Added: HasCustomRibbonButton
 - Added: RemoveCustomRibbonButton

Enhancements:

- Added settings to influence CATIA Show/NoShow behavior #3499
- Replace Java license monitor tool for floating licenses with a .NET application

Fixes:

- Issue with SingleInstance and file import into open scene #4205
- Density presets are not displayed #4025
- KAS: Convert drawing to 3DVS/PDF was not possible #3471
- Updater reports "No updates" if connection to update server not possible #3538

Version: 2019.0.340

- SolidWorks: Assembly could not be loaded #3950

Version: 2019.0.232

Release date: 2019-01-31

New:

- Transform: Move from circle center to circle center
- Importable format: e57
- Selection mode: Instance
- STEP: Import-Setting to select NAUO #2487
- Change colors of coordinate system #3933
- Turntable camera control
- Technical documentation (TECHDOC license option required)
- Split solids (ADVANCED_ANALYSIS license option required)
- Remove/Generate normals
- Change PMIs on import with width-/height factor
- Tutorial update

Enhancements:

- Filter: Setting to include/exclude hidden objects
- Filter: Search of hexadecimal and RGB colors #3777
- Export PNG with transparent background
- Configurable date for PDF templates #3619
- License borrowing dialogue: Features can be borrowed individually
- Improved 2D text search
- Improved representation of floating point values in attributes #3849
- Improved representation of PMIs #3940

Fixes:

- Improved printing on very large paper sizes #3715
- Solved problem with line breaks in about dialog #3712
- VSXML Import: Colors are inherited correctly #3744
- Solved issue with PLMXML import #3353
- Error messages from updater improved #3583
- Exact compare: colors swapped #3748
- Exact comparison of selections #3934
- 3DVS: Improved accuracy of transformations #3966
- Removing temporary files #3694
- False visibility after use of UNDO #3701
- Change colors of edges #3371
- ActiveX: Fix issue with OnMouseEnter event #3836

Version: 2018.0.365

Recommended Version

Release date: 2019-05-20

- Font replacement #4256
- NX files could not be opened #3441 #4189
- SolidEdge: Wrong attributes #1993

Version:	2018.0.365	Recommended Version
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- STEP could not be opened #3885

Version:	2018.0.360	Recommended Version
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Release date: 2019-02-08

New:

- Importer update:
- JT Import 10.2
- Parasolid V31
- Solid Edge 2019
- SolidWorks 2019
- 3D-PDF-Export: Templates with customizable date format #3619

Fixes:

- SVG/DXF export of cut geometry fixed #3987
- NX drawing issues #2702, #3222
- CATDrawing tables presentation #3469
- Colors corrected in exact comparison #3748
- Increased accuracy of transformations #3966
- Improved undo #3701
- Reload nodes #3765
- Export hull geometry / wire recognition #3972

Version:	2018.0.350	Recommended Version
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Release date: 2018-12-06

New:

- New method for ActiveX-Contol: SetKeepAlive
- Can be used to prevent closing of the 3DViewStation instance e.g. when Terminate() is called.

Enhancements:

- Improved Japanese UI translations
- Update of German and English tutorial

Fixes:

- Crash when printing on very large paper sizes #3715
- Issues with the display of Inventor assemblies solved #3262

Version:	2018.0.342	Recommended Version
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Release date: 2018-11-13

Version:	2018.0.342	Recommended Version
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New:

- Type floating license only: Update of LicServerClient-Java-Tool for floating server administration/usage statistics
-> current version of floating server software recommended

Enhancements:

- Improved Japanese UI translations
- Update of German tutorial

Fixes:

- Automatic recognition of markup fonts
- Uninstaller removes all installation files
- Type activation license only: Installation of needed Microsoft redistributables

Version:	2018.0.333	Recommended Version
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Release date: 2018-10-11

New:

- Import dialog / Import presets
- Recognition of drill holes
- Optimize instances - results in file size reduction
- Save views separate from geometries
- Load views independent from i.e. revised geometries
- Remove edges of geometries, i.e. due to bad quality
- Re-calculate edges of geometries, i.e. to allow measurements
- Calculation of neutral axis of piping objects
- Scale geometry
- Measure face without need to extract face first
- Real time wall thickness measurement
- Skybox creator
- Wall thickness analysis color gradated, i.e. multi selection
- Mirroring of geometries with more options

Enhancements:

- Improved UI translations
- Direct page access for multi-page 2D documents

Fixes:

- Visualization of background images #3595

Version:	2018.0.319
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Release date: 2018-09-18

New:

Version: 2018.0.319

- Context menu for each scene tab

Enhancements:

- Print dialog is resizable #3363
- Fullscreen can be exited via Escape (and F11)

Fixes:

- Solved problem when importing STEP data #3260
- Import dialog: focus issue #3457
- Solved problems with PDF Templates #3424 #3464
- ActiveX: AddContextMenuitem treats passed IDs wrong #3455
- Solved problem with display of diameter symbol #3472
- Solved problem with an old 3DVS file #3534
- Problem with Parasolid NodeNameTemplates solved #3536

Version: 2018.0.310

Release date: 2018-08-17

New:

- Import dialog: choose between different setting presets, thus leading to different load time and quality
- Inventor 2019 file format support

Enhancements:

- Neutral axis can now also be applied to tessellation and BREP data
- Drill hole improvements
- 2D root nodes now contain the name of the opened 2D file #3385
- Wallthickness Heatmap unit is available #1950
- New export setting to replace original file extension #3300

Fixes:

- 3DPDF: opening the 3D scene on Windows 7 systems #3144
- 3DPDF: containing U3D #3435
- OpenFile via renderer extension #3338
- PLMXML: Colors are displayed incorrectly #3319
- Bounding box world markup positioning issue #3296
- VSXML pathes with umlauts #3332
- DWG file is displayed as a white sheet #3410
- Splashscreen fix #3330
- Compare of multipage documents #3415

Version: 2018.0.212

Release date: 2018-07-18

Version: 2018.0.212

New:

- Remove empty nodes
- Print dialog: Print range
- Autorotate document
- Tiled printing
- Convert dialog: IFC and FBX added
- Measurement of circle area
- CMD implementation for the quick and exact compare

Enhancements:

- Setup: Teamviewer is now an optional parameter during silent installation (see corresponding documentation)
- Support for tessellated PMI STEP AP242
- Selection frame now also works for:
 - Wires
 - Curves
 - Points
 - Annotations
- Improve ActiveX control

Version: 2018.0.95

Release date: 2018-06-07

New:

- JavaScript support for 3D-PDF export (see corresponding documentation)

Export 3D:

- IFC

Fixes:

- ActiveX connection problem

Version: 2018.0.77

Release date: 2018-05-30

Enhancements:

- Menu icon for Readme and File Format List in the help category
- Menu icon for SkyBoxCreator in the tools area with which skyboxes can be generated

Fixes:

Version: 2018.0.77

- CatiaV5 Import Problems #2718

Version: 2018.0.57

Release date: 2018-05-17

New:

- Import 2D Advanced
 - Catia V6 / 3DExperience R2017
 - Support for NX Expression
- Measuring function: Dimension surfaces
- Optional monochrome import for 2D advanced formats
- Mirror geometry over world coordinate system and active coordinate system
- Import and export views via XML file

Enhancements:

- Improved computation speed of world bounding box
- Enhanced line generation

Fixes:

- RGB colors could not be changed #2884
- PDF export generates darker preview images than previous versions #3078