

Versionsinfo (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

		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-Edition	Automation Server

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 	●	●	●	●	●
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Full Version History

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

New:	<ul style="list-style-type: none"> Import 3D: <ul style="list-style-type: none"> 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 	●	●	●	●	●
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Version:	2024.1.166					
Release date:	2024-03-12	Desktop	WebViewer	VisShare	VR-Edition	Automation Server

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

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

- KAS: Generate screenshot exit code #1298 ●

Version:	2024.0.438					
Release date:	2024-01-26	Desktop	WebViewer	VisShare	VR-Edition	Automation Server

Updated system requirements: Windows 10 / Windows Server 2016

New:	<ul style="list-style-type: none"> ▪ Import 3D: <ul style="list-style-type: none"> ○ Solid Edge 2024 ● ○ Parasolid 36.0 ● ▪ Import 2D: <ul style="list-style-type: none"> ○ Solid Edge 2024 ● ○ Solidworks 2024 ● ○ NX 2306 Series (until 2306.7000) ● ○ CATIA V6 R2024x ● ▪ Export 2D: <ul style="list-style-type: none"> ○ DXF R32 (AutoCAD 2018) ● ▪ New icons for all products and 3DVS files ● ▪ JT import: alternative import per setting for tests available #1207 ● ▪ 3DVS export: option to save resources (skyboxes, backgrounds, materials, glare effects) ● ▪ IFC import: performance improvements #942 #1164 ● ▪ STL, OBJ and E57 import: settings added to split huge files on import, helps with performance and enables to load files that would be too big otherwise #1090 #1170 ● ▪ WV: improved quality of displayed images #1108 ● ▪ Section: slice geometries, can be applied several times (does not equal multi-cut) #1098 ● ▪ Compare: added comparison for PMIs #970 ● ▪ Selected faces can be merged #1180 ● 	●	●	●	●	●
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Version:	2024.0.438					
Release date:	2024-01-26	Desktop	WebViewer	VisShare	VR-Edition	Automation Server

	<ul style="list-style-type: none"> ▪ KAS can now be separately installed ● ▪ PMIs: support of multiple colors #734 ● ● ● ● ● ▪ Materials: improve patterned texture application #1151 ● ● ● ● ● ▪ Mouse setting for fit-all function #962 ● ● ● ▪ Always show rotation point #960 ● ● ● ▪ 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 ▪ 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 	●	●	●	●	●
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Version:		2023.6.145				
Release date:		2023-10-13				
		Desktop	WebViewer	VisShare	VR-Editon	Automation Server
	<ul style="list-style-type: none"> 2D: option to turn page with mouse wheel 2D: option to keep position when turning pages #291 	●	●	●		
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 	●	●	●	●	●

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

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 	●	●	●	●	●

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

- 3DPDF: prevent crash during loading #984
- Neutral axis: optimizations for some cases #986
- 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-Edition	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

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

- 100 % Ghost shows correct transparency #896 ● ● ● ● ●
- Activation license: correct maintenance check #941 ● ● ● ● ●
- Import: ZIP archive was falsely recognized as 3MF #421 ● ● ● ● ●

Version:	2023.3.149					
Release date:	2023-06-09	Desktop	WebViewer	VisShare	VR-Editition	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 ● ● ● ● ●

- 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 ● ● ● ● ●

Version:	2023.3.149					
Release date:	2023-06-09	Desktop	WebViewer	VisShare	VR-Edition	Automation Server
	<ul style="list-style-type: none"> CATIA import: don't show coordinates systems as faces #132 CATIA import: load R22 files updated with CATIA R32 #781 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:	<ul style="list-style-type: none"> Import 2D <ul style="list-style-type: none"> 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:	<ul style="list-style-type: none"> CGM: wrong display #667 	●	●	●	●	●

Version:	2023.1.225					
Release date:	2023-03-28	Desktop	WebViewer	VisShare	VR-Edition	Automation Server

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| Fixes: | ▪ Windows Server 2016 startup #789 | ● | ● | ● | ● | ● |
| | ▪ Print dialogue #785 | ● | | | | |
| | ▪ Change name: Del button deletes node #788 | ● | | | | |
| | ▪ Structure tree: cut and paste #787 | ● | ● | ● | | |

Version:	2023.1.224					
Release date:	2023-03-17	Desktop	WebViewer	VisShare	VR-Edition	Automation Server

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| New: | ▪ Import 3D | ● | ● | ● | ● | ● |
| | ○ 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 | ● | ● | ● | | ● | |

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| Fixes: | ▪ Solid Edge 2022 simplifications #502 | ● | ● | ● | ● | ● |
| | ▪ Solid Edge assembly references #754 | ● | ● | ● | ● | ● |
| | ▪ Multiple Inventor import issues #582 #584 | ● | ● | ● | ● | ● |

Version:	2023.1.224					
Release date:	2023-03-17	Desktop	WebViewer	VisShare	VR-Editon	Automation Server

- OBJ import: missing triangles #715 ● ● ● ● ●
- 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					
Release date:	2023-02-13	Desktop	WebViewer	VisShare	VR-Editon	Automation Server

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 ●

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

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

Version:		2022.7.482				
Release date:		2022-11-07				
		Desktop	WebViewer	VisShare	VR-Edition	Automation Server
	<ul style="list-style-type: none"> Activation licensing improved 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 	●	●	●	●	●
		●	●	●		●

Version:	2022.6.170					
Release date:	2022-09-05					
		Desktop	WebViewer	VisShare	VR-Editon	Automation Server

display node names correctly (available codepages can be edited in the preset.xml) #405

- Rework of node movements in structure tree #188 #189 ●
- Structure tree: CSV Export #393 ● ● ●
- Structure tree: horizontal scrollbar #472 ●
- Option to turn material rendering off #270 ● ● ● ● ●
- Animated focus (includes translation, rotation and ghosting) #440 ●
- TIFF 8bpp import #451 ● ● ● ● ●
- XML-API: GetWallthicknessRollingBallAnalysisResults #396 ● ● ● ● ●

Fixes:

- Solidworks format recognition fix #473 ● ● ● ● ●
- DXF Export: sometimes showed hidden lines #448 ● ● ●
- DXF Export: circle recognition improved #417 ● ● ●
- Raster images: export and printing fixed #471 ● ● ● ● ●
- Improve undercut calculation #271 ● ● ● ● ●
- Handle missing materials correctly #386 ● ● ● ● ●
- Handle geometries after wire removal and generation correctly #483 ● ● ● ● ●
- Structure tree: fix behavior in large trees #472 ●
- Fix Callout and Fixed Text positioning for printing and 2D raster export #477 ● ● ● ● ●
- Skybox: incremental rendering fixed #475 ● ● ● ● ●

Version:	2022.6.170					
Release date:	2022-09-05					
		Desktop	WebViewer	VisShare	VR-Editio	Automation Server

- 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

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| 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 ▪ Import 3D <ul style="list-style-type: none"> ○ AutoCAD DWG/DXF #181 ○ Creo 9 ○ Inventor 2023 ○ Parasolid 34.1 ○ NX 2206 ▪ Export 3D <ul style="list-style-type: none"> ○ 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: | <ul style="list-style-type: none"> ▪ Save field of view settings in 3DVS files #274 ▪ Show attributes correctly #167 | ● | ● | ● | ● | ● |

Version:	2022.5.199					
Release date:	2022-08-11					

	Desktop	WebViewer	VisShare	VR-Editon	Automation Server
▪ 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	●	●	●		
▪ 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-Editio	Automation Server

		Desktop	WebViewer	VisShare	VR-Editio	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		●	●		
Fixes:	▪ WebViewer: Server blocks incoming requests on high load #69		●	●		
	▪ Techdoc/BOM: Option to generate ID with only attribute value #129	●	●	●		
	▪ API: Compare two 3D models per URL parameter with Bestfit computation for auto alignment		●	●		
	▪ Creo 8 file loads correctly #233	●	●	●	●	●
	▪ NX PRT: handle 2D/3D case correctly #401	●	●	●		●
	▪ SLDDRW: correct position of information flags #251	●	●	●		●
	▪ UpdateScene rework #161	●	●	●	●	
	▪ Improve Split computation time #336	●	●	●	●	
	▪ Clash: compute multiple times fix #201	●	●	●	●	
	▪ Fix crash in Bestfit computation #368	●	●	●		
	▪ Improve clipping plane handling in flythrough/with focus #52	●	●	●	●	
▪ Fix interactions, if section and markup creation are both active #92	●	●	●	●		
▪ Remove undo for configuration view creation #89	●	●	●			

Version:	2022.4.169					
Release date:	2022-07-07					
		Desktop	WebViewer	VisShare	VR-Editition	Automation Server
▪ Wrong world bounding box in rare cases #343		●	●	●	●	
▪ Websocket closed behavior optimized for clients that sent connect message #301			●	●		
▪ WebViewer: Copy image to clipboard fix #247			●	●		
▪ Structure & output panes are scaled along with resolution change #230		●				
▪ VR: Skybox fixed #374					●	
▪ VR: Display shadow correctly #340					●	

Version:	2022.3.428					
Release date:	2022-05-21					
		Desktop	WebViewer	VisShare	VR-Editition	Automation Server

New:		Desktop	WebViewer	VisShare	VR-Editition	Automation Server
▪ IMPORTANT:		●	●	●	●	●
○ Network licensing (Floating) requires license server version 5.0 or higher						
▪ Import 3D		●	●	●	●	●
○ Autodesk Navisworks 2012 - 2022						
○ Autodesk Revit 2022						
○ JT 10.6						
▪ Best fit: align two nodes to overlap #113		●	●	●		
▪ Measure point to point on curve #111		●	●	●		
▪ Transform: circle center to point #204		●	●	●		
▪ Attachment pane for 2D documents #158		●	●	●		

Version:	2022.3.428					
Release date:	2022-05-21					
		Desktop	WebViewer	VisShare	VR-Editon	Automation Server

- Change color of tessellated PMIs on import #78 ● ● ● ● ●
- Add 7 additional light sources #45 ● ● ●
- Table view extended by date and file size #258 ●

Fixes:

- Fonts for DWG/DXF #122 ● ● ● ● ●
- 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 ● ● ● ● ●

Version:	2022.3.428					
Release date:	2022-05-21					
		Desktop	WebViewer	VisShare	VR-Editio	Automation Server

- 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-Editio	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 ● ● ● ● ●

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

- 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:**
- **IMPORTANT:**
 - 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

	●	●	●	●	●
	●	●	●	●	

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

- Copy text from 2D files to clipboard #112

●	●	●		
---	---	---	--	--
- Import setting to load PMIs as 'always on top'

●	●	●		
---	---	---	--	--
- Fixes:**
 - Increase possible datasize in 3DVS files #112

●	●	●		●
---	---	---	--	---
 - PMI reference highlighting not displayed in rare cases #184

●	●	●	●	●
---	---	---	---	---
 - KAS: special character handling added #186

				●
--	--	--	--	---
 - Improve logging

			●	●
--	--	--	---	---

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

- New:**
 - **IMPORTANT:**

●	●	●	●	●
---	---	---	---	---

 - Network licensing (Floating) requires license server version 5.0 or higher
 - Import 3D
 - Parasolid 34.0

●	●	●	●	●
---	---	---	---	---
 - Import 2D
 - Solid Edge 2022
 - Solidworks 2022 (SPO)
 - NX 1992, 1996, 2000

●	●	●	●	●
---	---	---	---	---
 - Customize scene lighting (color/brightness) #138

●	●	●		
---	---	---	--	--
 - Increase node luminosity #138

●	●	●		
---	---	---	--	--

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

	<ul style="list-style-type: none"> CATIA: PMI references to solids #50 Setting to load prototype views #51 Setup creates backup of presets.xml 	●	●	●	●	
Fixes:	<ul style="list-style-type: none"> 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 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 	●	●	●	●	●

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

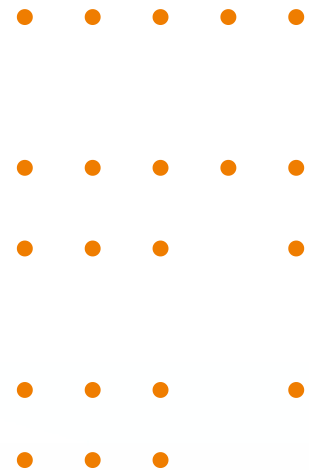
- XML-API: ImportConfigurationViews fix #39



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



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



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

- 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 ● ● ●
- 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 ● ● ●

Version:	2021.1.424					
Release date:	2021-09-01					
		Desktop	WebViewer	VisShare	VR-Editon	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 2D <ul style="list-style-type: none"> ○ 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 	●	●	●	●	●
Fixes:	<ul style="list-style-type: none"> ▪ FBX export: prevent export of deleted geometries #7086 ▪ VSXML export: physical properties will be written #6972 ▪ 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 	●	●	●	●	●
Fixes:	<ul style="list-style-type: none"> ▪ 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:	●	●	●	●	●
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Version:	2021.0.132	Recommended Version				
Release date:	2021-07-20					
		Desktop	WebViewer	VisShare	VR-Editon	Automation Server

- 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

- 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-Editon	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 3DVS format V17. 3DVS files exported with this version are not compatible with pre-2021 versions of 3DViewStation ▪ New FBX Im-/Exporter <ul style="list-style-type: none"> ○ 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 ▪ Measurement: Cumulated area #4099 ▪ Measurement: Distance point to face #3379 ▪ Transform: Boundary conditions: X, Y and Z axis added #5615 ▪ VSXML: XSD for validation ▪ 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 CustomIds 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 ▪ Parasolid: improve format recognition #6897 	●	●	●	●	●

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

- Improve visibility while viewing: remove flickering #6891 ● ● ● ●
- Clash computation #6921 ● ●
- Presets/properties: materials and density consolidated #6608 ● ● ● ● ●
- Performance of measuring improved #6890 ● ● ● ●
- Face highlights during measurement improved #6417 ● ● ● ●
- Circle recognition improved #4519 ● ● ● ●
- Setup: added default installation path for silent installation #6913 ● ● ● ● ●
- Setup: use user-defined path #6950 ● ● ● ● ●
- Remember user-defined accelerator keys #6915 ●
- 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:** ● ● ● ● ●

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

- 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
- 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:

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

- 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	●	●	●	●	●
▪ 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:** ● ● ● ● ●

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

- 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

<ul style="list-style-type: none"> ▪ Import 3D <ul style="list-style-type: none"> ○ 3D Manufacturing Format (3MF) 1.2.3 ○ MineCraft ○ Revit 2021 ○ Solid Edge 2021 ▪ Export 3D <ul style="list-style-type: none"> ○ 3DVS V17 ○ MineCraft ○ WaveFront OBJ ▪ Import 2D <ul style="list-style-type: none"> ○ SVG ▪ 2D: Transformations available ▪ Align camera vertical to a face ▪ BOM: Configuration of shown attributes ▪ 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 	●	●	●	●	●
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Version:	2021.0.6					
Release date:	2021-02-26					
		Desktop	WebViewer	VisShare	VR-Editio	Automation Server

- 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 ●
- 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 ●

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

- 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 empty in rare cases #6349 ●
- Markups: Improvement of markup creation in perspective mode with large models #6478 ● ● ●
- Minimal bounding box: Improvement of markup alignment #6504 ● ● ● ●
- PMI-Highlighting improved #6670 ● ● ● ●
- Raster formats: Improvement of scaling and dimensioning with calibration factor #6479 #6338 #6303 #6434 #6551 ● ● ● ● ●
- Software distribution: VR icon is no longer created #6511 ● ● ●
- SolidWorks: EPM vault storage supported #6481 ● ● ● ● ●

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

- 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 ● ● ● ● ●

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

- New:**
- **IMPORTANT:** Network licensing (Floating) requires license server version 4.9.22 or higher ● ● ● ● ●
 - Import 3D
 - SolidWorks 2021 ● ● ● ● ●
 - Import 2D
 - CATIA V6 / 3DEXperience R2021x ● ● ● ● ●
 - NX: 1938, 1942 and 1946 ● ● ● ● ●
 - Solid Edge 2021 ● ● ● ● ●
 - SolidWorks 2021 ● ● ● ● ●
- Fixes:**
- Unattended installation: Desktop icons were not created in some cases #6511 ● ● ● ● ●
 - Minimal bounding box: Wrong orientation #6504 ● ● ● ● ●

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

- SolidWorks: EPM vault storage files can't be opened #6481 ● ● ● ● ●

Version:	2020.1.395	Recommended Version				
Release date:	2020-11-20					
		Desktop	WebViewer	VisShare	VR-Edition	Automation Server

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

- Fixes:**
- 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

New:

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

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- Minimum system requirements changed

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- **NEW SETUP WIZARD:**
 - Includes all KISTERS 3DViewStation products
 - Revised comfortable user guidance
 - Optimised software distribution for desktop products

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- **HELPCENTER:** Online knowledge base for end users and administrators. Offline fallback included.

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- Import 3D
 - ACIS 2020
 - CATIA V5-2020
 - Creo 7.0
 - JT 10.3
 - Inventor 2021
 - NX 1926

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- Export 3D
 - JT 8.1, 9.5 & 10.0 selectable by dropdown menu

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- Import 2D
 - CATIA V6 / 3DExperience R2020x
 - ProE / Creo Parametric 7.0
 - NX: 1911, 1915, 1919, 1926, 1930, 1934

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- VSXML: Performance improvements #5388

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- MicroStation .DGN format support discontinued

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- **DISTANCE AND BAND ANALYSIS TOOL**

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- **MEASUREMENT OF THE TOTAL / CUMULATED LENGTH** for tool path (laser, CNC, welding)

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- **MEASUREMENT - ANGLE:** Line to line (projected)

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- **MEASUREMENT - SOLID TO SOLID:** Performance

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

improved

- **EXPLODE:**
 - On selections
 - Restriction to certain directions
- All created views can be automatically generated into single PNGs or as multi-page PDF including physical properties
- KAS method: export views
- Catia: Setting to import only 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
- 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)

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

- Setting to change the log level ●
- 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-Editio	Automation Server

- New:** ▪ **IMPORTANT:** ●

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

Network licensing (Floating) requires license server version 4.9.20 or higher.

- 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-Editio	Automation Server

New:		Desktop	WebViewer	VisShare	VR-Editio	Automation Server
▪ IMPORTANT:		●	●	●	●	●
▪ Network licensing (Floating) requires license server version 4.9.20 or higher.						
▪ Minimum system requirements changed.		●				●
▪ NEW SETUP WIZARD:		●	●	●	●	●
○ Includes all KISTERS 3DViewStation products.						
○ Revised comfortable user guidance.						
○ Optimized software distribution for desktop products.						
▪ HELPCENTER: Online knowledge base for end users and administrators. Offline fallback included.		●	●		●	●
▪ Import 3D		●	●	●	●	●
○ ACIS 2020						
○ CATIA V5-2020						
○ Creo 7.0						
○ JT 10.3						
○ Inventor 2021						
▪ Import 2D		●	●	●	●	●
○ CATIA V6 / 3DExperience R2020x						
○ ProE / Creo Parametric 7.0						
○ NX: 1911, 1915, 1919						
▪ VSXML: Performance improvements #5388.		●	●	●	●	●
▪ MicroStation .DGN format support discontinued.		●	●	●	●	●
▪ BAND ANALYSIS		●	●	●		
▪ MEASUREMENT - ANGLE: Line to line (projected).		●	●	●		
▪ MEASUREMENT - SOLID TO SOLID: Performance improved.		●	●	●	●	
▪ EXPLODE:		●	●	●		
○ On selections						
○ Restriction to certain directions						

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

- **VIEWS** can be conveniently exported as PNGs or, including the physical properties, as PDF. ● ● ● ● ●
- 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. ● ● ● ● ●

Version: 2020.1.298
Release date: 2020-08-26

	Desktop	WebViewer	VisShare	VR-Editon	Automation Server
▪ GHOST TRANSPARENCY wasn't applied immediately #6050.	●	●	●	●	●
▪ 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.	●	●	●	●	●

Version: 2020.0.22

Recommended Version

- 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
- **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

Version: 2019.1.132

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:

- 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

Version: 2019.1.126

- 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

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

Version:	2019.0.720	Recommended Version
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- 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
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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

Version: 2019.0.609

Recommended Version

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
- 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

Release date: 2019-07-12

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

Version: 2019.0.529

- 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

Release date: 2019-04-25

New:

- TechDoc: Text markup with fixed position in viewport

Fixes:

- 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
- 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

Version: 2019.0.232

- 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
- STEP could not be opened #3885

Version: 2018.0.360 **Recommended Version**

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**

Release date: 2018-12-06

New:

Version:	2018.0.350	Recommended Version
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- 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

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

Version:	2018.0.333	Recommended Version
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- 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
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New:

- 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
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Release date:	2018-08-17
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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

Version: 2018.0.310

- 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

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

Version: 2018.0.95

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:

- 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