

## Información de versión (notas de publicación)

### Current Version

Receives continuous updates and new features. Update interval frequently.

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

		Desktop	WebViewer	VisShare	VR-Edition	Automation Server
<b>New:</b>	▪ 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	●	●	●	●	●	
<b>Fixes:</b>	▪ 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**

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

Updated system requirements: Windows 10 / Windows Server 2016

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

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

<b>New:</b>	<ul style="list-style-type: none"> <li>Import 3D:             <ul style="list-style-type: none"> <li>SolidWorks 2024</li> </ul> </li> <li>Alternative JT import: support of views and tessellated PMIs #1207</li> <li>Add field to ribbon to search online help center</li> <li>Line width setting for contour #1266</li> <li>Korean language supported again</li> <li>VS License Manager: support of wildcards for privilege rule configuration #1293</li> </ul>	●	●	●	●	●
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<b>Version:</b>	2024.1.166					
<b>Release date:</b>	2024-03-12	Desktop	WebViewer	VisShare	VR-Edition	Automation Server

<b>Fixes:</b>	<ul style="list-style-type: none"> <li>Alternative JT import: multiple loading errors #1207</li> <li>JT Assembly loads correctly #779</li> <li>Improve circle detection #1304</li> <li>Setup: check for correct supported Windows version #1315</li> <li>Start up: race conditions when using LMX License Manager #1318</li> <li>3DPDF with import dialog: choose starting scene with 2D/3D button</li> <li>XML-API: GetNodeProperties #1283</li> <li>XML-API: ImportVSXMLToNode sets correct color #1300</li> <li>Correct cleanup for exit codes #1298</li> <li>VS License Manager: Windows Usergroup Timeout #1313</li> <li>VS License Manager: ServerConfig.json no longer overwrites itself on updates</li> </ul>	●	●	●	●	●
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<b>Version:</b>	2024.0.444					
<b>Release date:</b>	2024-02-09	Desktop	WebViewer	VisShare	VR-Edition	Automation Server

Updated system requirements: Windows 10 / Windows Server 2016

<b>Fixes:</b>	<ul style="list-style-type: none"> <li>BOM setting "Configure attribute display" #1282</li> <li>Import setting "Additional search paths" #1282</li> <li>WV: Visualization settings for 2D #1288</li> <li>WV: Skybox selection #1277</li> </ul>	●	●	●	●	●
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<b>Version:</b>	2024.0.444					
<b>Release date:</b>	2024-02-09	Desktop	WebViewer	VisShare	VR-Edition	Automation Server

- KAS: Generate screenshot exit code #1298 ●

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

Updated system requirements: Windows 10 / Windows Server 2016

**New:**

- Import 3D:
  - Solid Edge 2024 ● ● ● ● ●
  - Parasolid 36.0 ● ● ● ● ●
- Import 2D:
  - Solid Edge 2024 ● ● ● ● ●
  - Solidworks 2024 ● ● ● ● ●
  - NX 2306 Series (until 2306.7000) ● ● ● ● ●
  - CATIA V6 R2024x ● ● ● ● ●
- Export 2D:
  - 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 ● ● ● ● ●

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

	<ul style="list-style-type: none"> <li>▪ KAS can now be separately installed ●</li> <li>▪ PMIs: support of multiple colors #734 ● ● ● ● ●</li> <li>▪ Materials: improve patterned texture application #1151 ● ● ● ● ●</li> <li>▪ Mouse setting for fit-all function #962 ● ● ●</li> <li>▪ Always show rotation point #960 ● ● ●</li> <li>▪ XML-API pane moved from Output pane to Tool ribbon, response output added #1103 ●</li> <li>▪ XML-API: functions to color nodes or faces randomly # 1221 ● ● ● ● ●</li> <li>▪ VS License Manager: supports upgrade-switches of license features now ● ● ● ● ●</li> <li>▪ VS License Manager: license monitor improvements # 1186 ● ● ● ● ●</li> </ul>					
<b>Fixes:</b>	<ul style="list-style-type: none"> <li>▪ Correct installation behavior for closing running applications #1204 ● ● ● ● ●</li> <li>▪ Improve startup behavior of Desktop version #1211 ●</li> <li>▪ WV: initialize 2DAdvanced feature correctly #1255 ● ●</li> <li>▪ SolidEdge import: correct subassembly visibility #925 ● ● ● ● ●</li> <li>▪ STEP import: load tessellation correctly #1023 ● ● ● ● ●</li> <li>▪ NX import: load node visibility correctly #1193 ● ● ● ● ●</li> <li>▪ OBJ import: load textures in edge case correctly #1170 ● ● ● ● ●</li> <li>▪ Aligning: Move: enable functions to work with a boundary condition if activated #1235 ● ● ● ● ●</li> <li>▪ Structure tree: moving nodes lost file paths #1214 ● ● ● ● ●</li> <li>▪ WV: Structure tree: multi-selection with SHIFT in a large tree #1234 ● ●</li> <li>▪ Clear CustomIDs #1229 ● ● ● ●</li> </ul>					

<b>Version:</b>	2023.7.197					
<b>Release date:</b>	2023-11-17	Desktop	WebViewer	VisShare	VR-Editión	Automation Server

<b>New:</b>	▪ Import 3D: <ul style="list-style-type: none"> <li>○ Revit 2024</li> </ul>	●	●	●	●	●
	▪ 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	●	●	●		●	
<b>Fixes:</b>	▪ SolidEdge import: show pipes correctly #830	●	●	●	●	●
	▪ SolidEdge import: show frames correctly #646	●	●	●	●	●

<b>Version:</b>	2023.6.145					
<b>Release date:</b>	2023-10-13	Desktop	WebViewer	VisShare	VR-Editión	Automation Server

<b>New:</b>	▪ Import 3D: <ul style="list-style-type: none"> <li>○ NX 2306</li> <li>○ JT up to 10.9</li> </ul>	●	●	●	●	●
	▪ Import 2D: <ul style="list-style-type: none"> <li>○ NX 2306 Series (until 2306.4000)</li> </ul>	●	●	●		●
	▪ 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	●	●	●	●	●

Version:		2023.6.145				
Release date:		2023-10-13				
		Desktop	WebViewer	VisShare	VR-Editio	Automation Server
	<ul style="list-style-type: none"> <li>2D: option to turn page with mouse wheel</li> <li>2D: option to keep position when turning pages #291</li> </ul>	●	●	●		
<b>Fixes:</b>	<ul style="list-style-type: none"> <li>SolidEdge import: Coordinate system visibility and size #825 #861 #862</li> <li>SolidEdge import: Simplifications improvements #808 #864</li> <li>Navisworks import improvements #927 #989</li> <li>Improve radius measurements #1046</li> <li>Improve angle measurements #1072</li> <li>Improve display of PMIs with asian characters #908</li> <li>Improve display of drawings with asian characters #872</li> <li>Improve Copy-Paste behaviour #946 #947</li> </ul>	●	●	●	●	●

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

<b>New:</b>	<ul style="list-style-type: none"> <li>Import 3D:                             <ul style="list-style-type: none"> <li>USD</li> </ul> </li> <li>Rework: Floating licensing</li> <li>Rework: Wall thickness #140</li> <li>Rework: Band analysis #144 #143</li> <li>Rework: Aligning #607</li> </ul>	●	●	●	●	●	
	<b>Fixes:</b>	<ul style="list-style-type: none"> <li>Revit: Problems with displaying of Revit file #920</li> </ul>	●	●	●	●	●

<b>Version:</b>	2023.5.648					
<b>Release date:</b>	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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	●	●	●	●	●
	●	●	●		●
	●	●	●		●
		●	●		

<b>Version:</b>	2023.4.217					
<b>Release date:</b>	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

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

- 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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	●				
	●				



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

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

<b>Version:</b>	2023.3.149					
<b>Release date:</b>	2023-06-09	Desktop	WebViewer	VisShare	VR-Editio	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 ● ● ● ● ●

<b>Version:</b>	2023.3.149					
<b>Release date:</b>	2023-06-09	Desktop	WebViewer	VisShare	VR-Edition	Automation Server
	<ul style="list-style-type: none"> <li>CATIA import: don't show coordinates systems as faces #132</li> <li>CATIA import: load R22 files updated with CATIA R32 #781</li> <li>Revit import: rfa file loads now correctly #797</li> <li>STEP export: tessellation issue #614</li> <li>VXML import: progress overlay was not removed #924</li> <li>DXF export: circle recognition algorithm improved #800</li> <li>Some formats could not be converted to FBX #911</li> <li>Material rendering repaired after disassembling and reassembling surfaces #645</li> <li>Webviewer usage collector optimised #839</li> <li>jQuery update #902</li> </ul>	●	●	●	●	●

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

<b>New:</b>	<ul style="list-style-type: none"> <li>Import 2D             <ul style="list-style-type: none"> <li>NX 2212 Series until 2212.4000</li> <li>HEIC (as is)</li> <li>Excellon (as is)</li> </ul> </li> <li>Exact compare: works now with tessellation #517</li> <li>Export views to PDF: new settings to define paper format and DPI #567</li> <li>Presets: color picker can include user-defined tooltip #776</li> <li>XML-API: SaveAsRelative</li> </ul>	●	●	●		●
<b>Fixes:</b>	<ul style="list-style-type: none"> <li>CGM: wrong display #667</li> </ul>	●	●	●		●

<b>Version:</b>	2023.1.225					
<b>Release date:</b>	2023-03-28	Desktop	WebViewer	VisShare	VR-Editio	Automation Server

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| <b>Fixes:</b> | <ul style="list-style-type: none"> <li>▪ Windows Server 2016 startup #789</li> <li>▪ Print dialogue #785</li> <li>▪ Change name: Del button deletes node #788</li> <li>▪ Structure tree: cut and paste #787</li> </ul> | ● | ● | ● | ● | ● |
|---------------|--|---|---|---|---|---|

<b>Version:</b>	2023.1.224					
<b>Release date:</b>	2023-03-17	Desktop	WebViewer	VisShare	VR-Editio	Automation Server

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|-------------|---|---|---|---|---|---|
| <b>New:</b> | <ul style="list-style-type: none"> <li>▪ Import 3D                             <ul style="list-style-type: none"> <li>○ AVEVA RVM</li> <li>○ Navisworks 2023</li> <li>○ NX 2212</li> <li>○ Parasolid 35.0</li> <li>○ Solid Edge 2023</li> <li>○ SolidWorks 2023</li> </ul> </li> <li>▪ SolidEdge import: support of coordinate systems</li> <li>▪ JT export: support of coordinate systems</li> <li>▪ Faster vector export (DXF, SVG)</li> <li>▪ Cut of multiple nodes and paste on one of them creates a new node</li> <li>▪ Rework: Alignment functions part 1: Render preview</li> <li>▪ Rework: Attribute CSV import</li> </ul> | ● | ● | ● | ● | ● |
|-------------|---|---|---|---|---|---|

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|---------------|--|---|---|---|---|---|
| <b>Fixes:</b> | <ul style="list-style-type: none"> <li>▪ Solid Edge 2022 simplifications #502</li> <li>▪ Solid Edge assembly references #754</li> <li>▪ Multiple Inventor import issues #582 #584</li> </ul> | ● | ● | ● | ● | ● |
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<b>Version:</b>	2023.1.224					
<b>Release date:</b>	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 ● ● ●

<b>Version:</b>	2023.0.405					
<b>Release date:</b>	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 ●

<b>Version:</b>	2023.0.405					
<b>Release date:</b>	2023-02-13	Desktop	WebViewer	VisShare	VR-Editio	Automation Server

<b>Fixes:</b>	▪ 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	●	●	●	●	●	

<b>Version:</b>	2022.8.293					
<b>Release date:</b>	2022-12-05	Desktop	WebViewer	VisShare	VR-Editio	Automation Server

<b>New:</b>	▪ DXF Export: support of coordinate systems #544	●	●	●	●	●
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Version:						
	2022.8.293					
Release date:		Desktop	WebViewer	VisShare	VR-Edition	Automation Server
	2022-12-05					
	<ul style="list-style-type: none"> <li>Import attributes from CSV #596</li> </ul>	●	●	●		
	<ul style="list-style-type: none"> <li>Background color for PMIs #535</li> </ul>	●	●	●	●	●
	<ul style="list-style-type: none"> <li>BOM - new options: Bounding box, gravity center, structure level #273 #288 #326</li> </ul>	●	●	●		●
	<ul style="list-style-type: none"> <li>Show face attributes #329</li> </ul>	●	●	●		●
	<ul style="list-style-type: none"> <li>API: Identify node complexity #350</li> </ul>	●	●	●		●
<b>Fixes:</b>	<ul style="list-style-type: none"> <li>Improve import of PDF #576 #589</li> </ul>	●	●	●		●
	<ul style="list-style-type: none"> <li>Improve instance recognition #590</li> </ul>	●	●	●	●	●
	<ul style="list-style-type: none"> <li>Improve E57 point cloud rendering #540</li> </ul>	●	●	●	●	
	<ul style="list-style-type: none"> <li>Fix split scene function #600</li> </ul>	●	●	●		
	<ul style="list-style-type: none"> <li>Fix circle markups in 2D #453</li> </ul>	●	●	●		●
	<ul style="list-style-type: none"> <li>Improve TIF performance after copy/paste #619</li> </ul>	●	●	●		
	<ul style="list-style-type: none"> <li>Improve loading of many attributes #618</li> </ul>	●	●	●	●	●
	<ul style="list-style-type: none"> <li>VR: One eyed rendering in some cases</li> </ul>				●	

Version:						
	2022.7.482					
Release date:		Desktop	WebViewer	VisShare	VR-Edition	Automation Server
	2022-11-07					
<b>New:</b>	<ul style="list-style-type: none"> <li><b>IMPORTANT:</b> <ul style="list-style-type: none"> <li>This release contains security updates. We recommend updating to this version as soon as possible.</li> </ul> </li> </ul>	●	●	●	●	●
	<ul style="list-style-type: none"> <li>Import 2D                             <ul style="list-style-type: none"> <li>NX 2206</li> </ul> </li> </ul>	●	●	●	●	●
	<ul style="list-style-type: none"> <li>Export 2D                             <ul style="list-style-type: none"> <li>WMF (raster)</li> </ul> </li> </ul>	●	●	●	●	●

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

Version:		2022.6.170				
Release date:		2022-09-05				
		Desktop	WebViewer	VisShare	VR-Edition	Automation Server
<b>New:</b>	<ul style="list-style-type: none"> <li><b>IMPORTANT:</b> <ul style="list-style-type: none"> <li>Network licensing (Floating) requires license server version 5.0 or higher</li> </ul> </li> <li>STEP, IFC and Creo Import: choose codepage to</li> </ul>	●	●	●	●	●
		●	●	●		●

<b>Version:</b>	2022.6.170					
<b>Release date:</b>	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 ● ● ● ● ●



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

- XML-API: GenerateAttribute and GenerateCustomIds fixed for special characters #388
 

●	●	●	●	●
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<b>Version:</b>	2022.5.199					
<b>Release date:</b>	2022-08-11					
		Desktop	WebViewer	VisShare	VR-Editio	Automation Server

- |               |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>New:</b>   | <ul style="list-style-type: none"> <li>▪ <b>IMPORTANT:</b> <ul style="list-style-type: none"> <li>○ Network licensing (Floating) requires license server version 5.0 or higher</li> </ul> </li> <li>▪ Import 3D                             <ul style="list-style-type: none"> <li>○ AutoCAD DWG/DXF #181</li> <li>○ Creo 9</li> <li>○ Inventor 2023</li> <li>○ Parasolid 34.1</li> <li>○ NX 2206</li> </ul> </li> <li>▪ Export 3D                             <ul style="list-style-type: none"> <li>○ XML-API: Convert VSXML to STEP AP214-CC06 Master file (nested external references) #351</li> </ul> </li> <li>▪ KAS/API: new command CONVERT_AND_EXECUTE_XML</li> <li>▪ First level of attribute names shown as subcategories</li> <li>▪ Improve 3DVS and VSXML import performance</li> <li>▪ Option to replace the 3D model with a screenshot in templated 3DPDF export</li> </ul> | <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">●</td> <td style="width: 20px; text-align: center;">●</td> <td style="width: 20px; text-align: center;">●</td> <td style="width: 20px; text-align: center;">●</td> <td style="width: 20px; text-align: center;">●</td> </tr> <tr> <td style="width: 20px; text-align: center;">●</td> <td style="width: 20px; text-align: center;">●</td> <td style="width: 20px; text-align: center;">●</td> <td style="width: 20px; text-align: center;">●</td> <td style="width: 20px; text-align: center;">●</td> </tr> <tr> <td style="width: 20px; text-align: center;">●</td> <td style="width: 20px; text-align: center;">●</td> <td style="width: 20px; text-align: center;">●</td> <td style="width: 20px; text-align: center;">●</td> <td style="width: 20px; text-align: center;">●</td> </tr> <tr> <td style="width: 20px; text-align: center;">●</td> <td style="width: 20px; text-align: center;">●</td> <td style="width: 20px; text-align: center;">●</td> <td style="width: 20px; text-align: center;">●</td> <td style="width: 20px; text-align: center;">●</td> </tr> <tr> <td style="width: 20px; text-align: center;">●</td> <td style="width: 20px; text-align: center;">●</td> <td style="width: 20px; text-align: center;">●</td> <td style="width: 20px; text-align: center;">●</td> <td style="width: 20px; text-align: center;">●</td> </tr> <tr> <td style="width: 20px; text-align: center;">●</td> <td style="width: 20px; text-align: center;">●</td> <td style="width: 20px; text-align: center;">●</td> <td style="width: 20px; text-align: center;">●</td> <td style="width: 20px; text-align: center;">●</td> </tr> <tr> <td style="width: 20px; text-align: center;">●</td> <td style="width: 20px; text-align: center;">●</td> <td style="width: 20px; text-align: center;">●</td> <td style="width: 20px; text-align: center;">●</td> <td style="width: 20px; text-align: center;">●</td> </tr> </table> | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| ●             | ●  | ●   | ● | ● |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ●             | ●  | ●   | ● | ● |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ●             | ●  | ●   | ● | ● |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ●             | ●  | ●   | ● | ● |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ●             | ●  | ●   | ● | ● |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ●             | ●  | ●   | ● | ● |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ●             | ●  | ●   | ● | ● |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| <b>Fixes:</b> | <ul style="list-style-type: none"> <li>▪ Save field of view settings in 3DVS files #274</li> <li>▪ Show attributes correctly #167</li> </ul>   | <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">●</td> <td style="width: 20px; text-align: center;">●</td> <td style="width: 20px; text-align: center;">●</td> <td style="width: 20px; text-align: center;">●</td> <td style="width: 20px; text-align: center;">●</td> </tr> <tr> <td style="width: 20px; text-align: center;">●</td> <td style="width: 20px; text-align: center;">●</td> <td style="width: 20px; text-align: center;">●</td> <td style="width: 20px; text-align: center;">●</td> <td style="width: 20px; text-align: center;">●</td> </tr> </table>  | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ●             | ●  | ●   | ● | ● |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ●             | ●  | ●   | ● | ● |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

<b>Version:</b>	2022.5.199
<b>Release date:</b>	2022-08-11

	Desktop	WebViewer	VisShare	VR-Editio	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	●	●	●	●	

<b>Version:</b>	2022.4.169					
<b>Release date:</b>	2022-07-07					
		Desktop	WebViewer	VisShare	VR-Editio	Automation Server

		Desktop	WebViewer	VisShare	VR-Editio	Automation Server
<b>New:</b>	▪ <b>IMPORTANT:</b>	●	●	●	●	●
	○ 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		●	●		
<b>Fixes:</b>	▪ 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	●	●	●			

<b>Version:</b>	2022.4.169					
<b>Release date:</b>	2022-07-07					
		Desktop	WebViewer	VisShare	VR-Editio	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 ●

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

- New:**
- **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 ● ● ●

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

	<ul style="list-style-type: none"> <li>Change color of tessellated PMIs on import #78</li> <li>Add 7 additional light sources #45</li> <li>Table view extended by date and file size #258</li> </ul>	●	●	●	●	●
<b>Fixes:</b>	<ul style="list-style-type: none"> <li>Fonts for DWG/DXF #122</li> <li>3D PDF crashing in rare cases #305</li> <li>OBJ: Improve texture visualisation #277</li> <li>HPGL with embedded TIF: correct display #82</li> <li>Inventor assembly won't open #5181</li> <li>Solidworks: wrong transparencies #6583</li> <li>Conversion of Solidworks configurations with special characters #286</li> <li>Correct conversion of limited Solidworks configurations #325</li> <li>Markups: fix CustomID, reference and scale handling #252 #299 #300</li> <li>Crashes with corrupted wires in rare cases #272</li> <li>BOM: copy to clipboard missing information #292</li> <li>Fix anchor for Markups in views #308</li> <li>Coordinate system picking highlight #40</li> <li>Improve instantiation #123</li> <li>Clash volume color always black #239</li> <li>Save mouse settings for 2D correctly #55</li> </ul>	●	●	●	●	●

<b>Version:</b>	2022.3.428					
<b>Release date:</b>	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 ● ● ● ● ●

<b>Version:</b>	2022.2.167					
<b>Release date:</b>	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 ● ● ● ● ●

<b>Version:</b>	2022.2.167				
<b>Release date:</b>	2022-04-11				
	Desktop	WebViewer	VisShare	VR-Edition	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

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

<b>Version:</b>	2022.1.136				
<b>Release date:</b>	2022-03-08				
	Desktop	WebViewer	VisShare	VR-Edition	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

	●	●	●	●	●
	●	●	●	●	

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

<b>Fixes:</b>	<ul style="list-style-type: none"> <li>▪ Copy text from 2D files to clipboard #112</li> <li>▪ Import setting to load PMIs as 'always on top'</li> <li>▪ Increase possible datasize in 3DVS files #112</li> <li>▪ PMI reference highlighting not displayed in rare cases #184</li> <li>▪ KAS: special character handling added #186</li> <li>▪ Improve logging</li> </ul>	●	●	●		●
		●	●	●	●	●
		●	●	●	●	●
					●	●
					●	●

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

<b>New:</b>	<ul style="list-style-type: none"> <li>▪ <b>IMPORTANT:</b> <ul style="list-style-type: none"> <li>○ Network licensing (Floating) requires license server version 5.0 or higher</li> </ul> </li> <li>▪ Import 3D                             <ul style="list-style-type: none"> <li>○ Parasolid 34.0</li> </ul> </li> <li>▪ Import 2D                             <ul style="list-style-type: none"> <li>○ Solid Edge 2022</li> <li>○ Solidworks 2022 (SPO)</li> <li>○ NX 1992, 1996, 2000</li> </ul> </li> <li>▪ Customize scene lighting (color/brightness) #138</li> <li>▪ Increase node luminosity #138</li> </ul>	●	●	●	●	●
		●	●	●	●	●
		●	●	●	●	●
		●	●	●		
		●	●	●		



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

	<ul style="list-style-type: none"> <li>CATIA: PMI references to solids #50</li> <li>Setting to load prototype views #51</li> <li>Setup creates backup of presets.xml</li> </ul>	●	●	●	●	
<b>Fixes:</b>	<ul style="list-style-type: none"> <li>JT to 3DVS: PMI text correctly exported #49 #105</li> <li>E57: loading error when UTF8 characters in filepath #109</li> <li>FBX: loading error in rare cases #119</li> <li>CATDrawing: won't open #6765</li> <li>CATDrawing: wrong curves #6876</li> <li>DFT: wrong measurement #6912</li> <li>DFT: won't open #7195</li> <li>PDF: no background/wrong background color #124 #149</li> <li>DXF/SVG Export: lines missing #17 #53</li> <li>CGM Export fixed #18</li> <li>Open 3D scene for Office documents</li> <li>Improve volume calculation #47</li> <li>Loading error when UTF8 characters are in filepath #81</li> <li>Transform: Free drag not working #44</li> <li>PMI properties: change font #59</li> <li>Support info zipfile was not created #20</li> </ul>	●	●	●	●	●

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

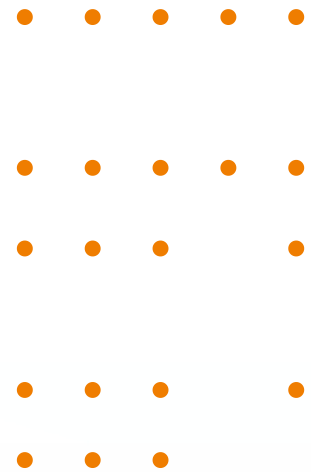
- XML-API: ImportConfigurationViews fix #39



<b>Version:</b>	2021.1.835					
<b>Release date:</b>	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	●	●	●		

<b>Version:</b>	2021.1.424					
<b>Release date:</b>	2021-09-01					
		Desktop	WebViewer	VisShare	VR-Edition	Automation Server

		Desktop	WebViewer	VisShare	VR-Edition	Automation Server
<b>New:</b>	▪ <b>IMPORTANT:</b>	●	●	●	●	●
	○ 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	●	●	●			
<b>Fixes:</b>	▪ 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					●

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

- |               |   |   |   |   |   |   |
|---------------|---|---|---|---|---|---|
| <b>New:</b>   | <ul style="list-style-type: none"> <li>▪ <b>IMPORTANT:</b> <ul style="list-style-type: none"> <li>○ Network licensing (Floating) requires license server version 5.0 or higher</li> <li>○ Updated Microsoft Redistributables are needed (will be installed during the setup routine)</li> </ul> </li> <li>▪ Import 3D                             <ul style="list-style-type: none"> <li>○ Inventor 2022</li> </ul> </li> <li>▪ Optional prompt to save when closing a scene #6966</li> <li>▪ References for dimensionings of surfaces and edges</li> <li>▪ VR menu settings will be saved</li> </ul> | <ul style="list-style-type: none"> <li>●</li> <li>●</li> <li>●</li> <li>●</li> <li>●</li> <li>●</li> <li>●</li> <li>●</li> <li>●</li> </ul> | <ul style="list-style-type: none"> <li>●</li> <li>●</li> <li>●</li> <li>●</li> <li>●</li> <li>●</li> <li>●</li> <li>●</li> <li>●</li> </ul> | <ul style="list-style-type: none"> <li>●</li> <li>●</li> <li>●</li> <li>●</li> <li>●</li> <li>●</li> <li>●</li> <li>●</li> <li>●</li> </ul> | <ul style="list-style-type: none"> <li>●</li> <li>●</li> <li>●</li> <li>●</li> <li>●</li> <li>●</li> <li>●</li> <li>●</li> <li>●</li> </ul> | <ul style="list-style-type: none"> <li>●</li> <li>●</li> <li>●</li> <li>●</li> <li>●</li> <li>●</li> <li>●</li> <li>●</li> <li>●</li> </ul> |
| <b>Fixes:</b> | <ul style="list-style-type: none"> <li>▪ Optimization of visualization of coordinate systems #6922</li> <li>▪ Clash: set transparency of collision pair correctly #6934</li> <li>▪ 3DConnexion Controller: handling optimized #7043</li> <li>▪ Solidworks: ASM could not be opened #6865</li> </ul>   | <ul style="list-style-type: none"> <li>●</li> <li>●</li> <li>●</li> <li>●</li> </ul>  | <ul style="list-style-type: none"> <li>●</li> <li>●</li> <li>●</li> <li>●</li> </ul>  | <ul style="list-style-type: none"> <li>●</li> <li>●</li> <li>●</li> <li>●</li> </ul>  | <ul style="list-style-type: none"> <li>●</li> <li>●</li> <li>●</li> <li>●</li> </ul>  | <ul style="list-style-type: none"> <li>●</li> <li>●</li> <li>●</li> <li>●</li> </ul>  |

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

- |             |   |   |   |   |   |   |
|-------------|---|---|---|---|---|---|
| <b>New:</b> | <ul style="list-style-type: none"> <li>▪ <b>IMPORTANT:</b></li> </ul> | <ul style="list-style-type: none"> <li>●</li> <li>●</li> <li>●</li> <li>●</li> <li>●</li> </ul> | <ul style="list-style-type: none"> <li>●</li> <li>●</li> <li>●</li> <li>●</li> <li>●</li> </ul> | <ul style="list-style-type: none"> <li>●</li> <li>●</li> <li>●</li> <li>●</li> <li>●</li> </ul> | <ul style="list-style-type: none"> <li>●</li> <li>●</li> <li>●</li> <li>●</li> <li>●</li> </ul> | <ul style="list-style-type: none"> <li>●</li> <li>●</li> <li>●</li> <li>●</li> <li>●</li> </ul> |
|-------------|---|---|---|---|---|---|

<b>Version:</b>	2021.0.132	<b>Recommended Version</b>				
<b>Release date:</b>	2021-07-20					
		Desktop	WebViewer	VisShare	VR-Editon	Automation Server

- o Network licensing (Floating) requires license server version 5.0 or higher
- o New 3DVS format V17. 3DVS files exported with this version are not compatible with pre-2021 versions of 3DViewStation
- o Updated Microsoft Redistributables are needed (will be installed during the setup routine)

- Import 3D
  - o Catia V5-6 R2021
  - o NX - Unigraphics 1980
  - o Parasolid 33.1
  - o Creo 8
- Import 2D
  - o Creo 8
  - o 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

<b>Version:</b>	2021.0.124					
<b>Release date:</b>	2021-07-02					
		Desktop	WebViewer	VisShare	VR-Editon	Automation Server

<b>New:</b>	<ul style="list-style-type: none"> <li>▪ <b>IMPORTANT:</b> <ul style="list-style-type: none"> <li>○ Network licensing (Floating) requires license server version 5.0 or higher</li> <li>○ New 3DVS format V17. 3DVS files exported with this version are not compatible with pre-2021 versions of 3DViewStation</li> </ul> </li> <li>▪ New FBX Im-/Exporter                             <ul style="list-style-type: none"> <li>○ Import: all versions</li> <li>○ Improved load time #6410</li> <li>○ Export: binary 7.5</li> <li>○ Export coordinate system #6081</li> <li>○ Export correct scaling #5683</li> </ul> </li> <li>▪ Selection mode: Face</li> <li>▪ Change the color of faces: Add vertex colors #6946</li> <li>▪ Measurement: Cumulated area #4099</li> <li>▪ Measurement: Distance point to face #3379</li> <li>▪ Transform: Boundary conditions: X, Y and Z axis added #5615</li> <li>▪ VSXML: XSD for validation</li> <li>▪ XML-API:                             <ul style="list-style-type: none"> <li>○ New method for writing custom log messages to renderer instance log files and feature usage logging</li> <li>○ Reference to part Nodelds and CustomIds added in VSXML for measurement markups</li> <li>○ Camera Zoom/Pan limits</li> <li>○ OpenFile extended: Load from URL</li> </ul> </li> </ul>	●	●	●	●	●
<b>Fixes:</b>	<ul style="list-style-type: none"> <li>▪ VSXML import: improve performance #6473 #6976</li> <li>▪ Parasolid: improve format recognition #6897</li> </ul>	●	●	●	●	●

<b>Version:</b>	2021.0.124				
<b>Release date:</b>	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 ● ●

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

- New:** ▪ **IMPORTANT:** ● ● ● ● ●



<b>Version:</b>	2021.0.95					
<b>Release date:</b>	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:

<b>Version:</b>	2021.0.95					
<b>Release date:</b>	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	●				

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

**New:**                   ▪ **IMPORTANT:**                   ●           ●           ●           ●           ●

<b>Version:</b>	2021.0.6					
<b>Release date:</b>	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
- 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
- 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

**Version:** 2021.0.6

**Release date:** 2021-02-26

	Desktop	WebViewer	VisShare	VR-Editon	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 <b>ZOOM: FIT ALL</b> to all views	●	●	●		●
▪ VisShare: Mobile UI version for smartphones & tablets			●		
▪ VR: Camera rotatable via thumbstick or touchpad of the controller				●	
▪ VR: Feedback message boxes				●	

<b>Version:</b>	2021.0.6					
<b>Release date:</b>	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 ● ● ● ● ●

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

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

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

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- Wallthickness heatmap: Improved visualization #6415
 

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- WebViewer: Sessions in standby can be continued #6277
 

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<b>Version:</b>	2020.1.410	<b>Recommended Version</b>				
<b>Release date:</b>	2021-01-14					
		Desktop	WebViewer	VisShare	VR-Editio	Automation Server

- New:**
- **IMPORTANT:** Network licensing (Floating) requires license server version 4.9.22 or higher
 

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  - Import 3D
    - SolidWorks 2021
 

●	●	●	●	●
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  - Import 2D
    - CATIA V6 / 3DEXperience R2021x
 

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    - NX: 1938, 1942 and 1946
 

●				
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    - Solid Edge 2021
 

●				
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    - SolidWorks 2021
 

●				
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- Fixes:**
- Unattended installation: Desktop icons were not created in some cases #6511
 

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  - Minimal bounding box: Wrong orientation #6504
 

●	●	●	●	●
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<b>Version:</b>	2020.1.410	<b>Recommended Version</b>				
<b>Release date:</b>	2021-01-14					
		Desktop	WebViewer	VisShare	VR-Edition	Automation Server

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

<b>Version:</b>	2020.1.395	<b>Recommended Version</b>				
<b>Release date:</b>	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 ●

<b>Version:</b>	2020.1.385	<b>Recommended Version</b>				
<b>Release date:</b>	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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<b>Version:</b>	2020.1.385	<b>Recommended Version</b>				
<b>Release date:</b>	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)

<b>Version:</b>	2020.1.385	<b>Recommended Version</b>				
<b>Release date:</b>	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 ●

<b>Version:</b>	2020.1.328					
<b>Release date:</b>	2020-09-11					
		Desktop	WebViewer	VisShare	VR-Editio	Automation Server

- New:** ▪ **IMPORTANT:** ●

<b>Version:</b>	2020.1.328					
<b>Release date:</b>	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 ●

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

<b>New:</b>	<ul style="list-style-type: none"> <li>▪ <b>IMPORTANT:</b></li> <li>▪ Network licensing (Floating) requires license server version 4.9.20 or higher.</li> <li>▪ Minimum system requirements changed.</li> <li>▪ <b>NEW SETUP WIZARD:</b> <ul style="list-style-type: none"> <li>○ Includes all KISTERS 3DViewStation products.</li> <li>○ Revised comfortable user guidance.</li> <li>○ Optimized software distribution for desktop products.</li> </ul> </li> <li>▪ <b>HELPCENTER:</b> Online knowledge base for end users and administrators. Offline fallback included.</li> <li>▪ Import 3D                             <ul style="list-style-type: none"> <li>○ ACIS 2020</li> <li>○ CATIA V5-2020</li> <li>○ Creo 7.0</li> <li>○ JT 10.3</li> <li>○ Inventor 2021</li> </ul> </li> <li>▪ Import 2D                             <ul style="list-style-type: none"> <li>○ CATIA V6 / 3DExperience R2020x</li> <li>○ ProE / Creo Parametric 7.0</li> <li>○ NX: 1911, 1915, 1919</li> </ul> </li> <li>▪ VSXML: Performance improvements #5388.</li> <li>▪ MicroStation .DGN format support discontinued.</li> <li>▪ <b>BAND ANALYSIS</b></li> <li>▪ <b>MEASUREMENT - ANGLE:</b> Line to line (projected).</li> <li>▪ <b>MEASUREMENT - SOLID TO SOLID:</b> Performance improved.</li> <li>▪ <b>EXPLODE:</b> <ul style="list-style-type: none"> <li>○ On selections</li> <li>○ Restriction to certain directions</li> </ul> </li> </ul>	●	●	●	●	●
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<b>Version:</b>	2020.1.298					
<b>Release date:</b>	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
▪ <b>GHOST TRANSPARENCY</b> wasn't applied immediately #6050.	●	●	●	●	●
▪ <b>NEIGHBORHOOD SEARCH:</b> Stability improvements #6012.	●	●	●	●	●
▪ <b>WALLTHICKNESS HEATMAP:</b> Wrong results with ray method in rare cases #5678.	●	●	●	●	●
▪ <b>CIRCLE DETECTION:</b> 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.	●	●	●	●	●

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

- API: Ghost / Constraints GhostLocked - Initial view, wrong state of ghosted nodes #5963. ● ● ● ● ●

<b>Version:</b>	2020.0.40	<b>Recommended Version</b>
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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

<b>Version:</b>	2020.0.29	<b>Recommended Version</b>
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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

<b>Version:</b>	2020.0.22	<b>Recommended Version</b>
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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

**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

<b>Version:</b>	2019.0.720	<b>Recommended Version</b>
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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

<b>Version:</b>	2019.0.715	<b>Recommended Version</b>
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**Release date:** 2019-11-25

**Fixes:**

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

<b>Version:</b>	2019.0.677	<b>Recommended Version</b>
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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

<b>Version:</b>	2019.0.609	<b>Recommended Version</b>
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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:**

<b>Version:</b>	2018.0.350	<b>Recommended Version</b>
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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

<b>Version:</b>	2018.0.342	<b>Recommended Version</b>
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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

<b>Version:</b>	2018.0.333	<b>Recommended Version</b>
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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



<b>Version:</b>	2018.0.333	<b>Recommended Version</b>
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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

<b>Version:</b>	2018.0.319
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**Release date:** 2018-09-18

**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

<b>Version:</b>	2018.0.310
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**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

**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