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|----------------------|--|---------|-----------|----------|------------|-------------------|
| <b>Version:</b>      | 2022.6.170   |         |           |          |            |                   |
| <b>Release date:</b> | 2022-09-05   |         |           |          |            |                   |
|                      |  | Desktop | WebViewer | VisShare | VR-Edition | Automation Server |
|                      | <ul style="list-style-type: none"> <li>▪ Handle missing materials correctly #386</li> <li>▪ Handle geometries after wire removal and generation correctly #483</li> <li>▪ Structure tree: fix behavior in large trees #472</li> <li>▪ Fix Callout and Fixed Text positioning for printing and 2D raster export #477</li> <li>▪ Skybox: incremental rendering fixed #475</li> <li>▪ XML-API: GenerateAttribute and GenerateCustomIds fixed for special characters #388</li> </ul> | ●       | ●         | ●        | ●          | ●                 |

**Previous Version**

|                      |  |         |           |          |            |                   |
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| <b>Version:</b>      | 2022.5.199   |         |           |          |            |                   |
| <b>Release date:</b> | 2022-08-11   |         |           |          |            |                   |
|                      |  | 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>▪ 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> </ul> | ●       | ●         | ●        | ●          | ●                 |



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

- Correct floor shadow in perspective #375 ● ● ● ●

### Full Version History

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

- New:**
- **IMPORTANT:** ● ● ● ● ●
    - Network licensing (Floating) requires license server version 5.0 or higher
  - STEP, IFC and Creo Import: choose codepage to display node names correctly (available codepages can be edited in the preset.xml) #405 ● ● ● ●
  - 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 ● ● ● ●

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

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**New:**

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| <b>Fixes:</b> | <ul style="list-style-type: none"> <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> <li>▪ Save field of view settings in 3DVS files #274</li> <li>▪ Show attributes correctly #167</li> <li>▪ Improve DXF/SVG export performance</li> <li>▪ DXF measurements wrong #349</li> <li>▪ PDF format recognition improved #458</li> <li>▪ PDF attachment display with unicode characters #416</li> <li>▪ Huge STL files crashed #296 #324</li> <li>▪ STPX, 3DS, 3MF, Collada: Node name in structure reduced from pathname to filename #361</li> <li>▪ Copy text to clipboard: Fix and rework deactivation handling #390</li> <li>▪ Measurement markups: Improve rendering of reference wires #411</li> <li>▪ Coordinate systems: visibility fixed, when they are not near geometry #412</li> </ul> | <table border="0"> <tr> <td>●</td><td>●</td><td>●</td><td>●</td><td>●</td> </tr> <tr> <td>●</td><td>●</td><td>●</td><td></td><td>●</td> </tr> <tr> <td></td><td></td><td></td><td></td><td>●</td> </tr> <tr> <td>●</td><td>●</td><td>●</td><td></td><td></td> </tr> <tr> <td>●</td><td>●</td><td>●</td><td>●</td><td>●</td> </tr> <tr> <td>●</td><td>●</td><td>●</td><td></td><td>●</td> </tr> <tr> <td>●</td><td>●</td><td>●</td><td></td><td>●</td> </tr> <tr> <td>●</td><td>●</td><td>●</td><td>●</td><td>●</td> </tr> <tr> <td>●</td><td>●</td><td>●</td><td></td><td>●</td> </tr> <tr> <td>●</td><td>●</td><td>●</td><td>●</td><td>●</td> </tr> <tr> <td>●</td><td>●</td><td>●</td><td>●</td><td>●</td> </tr> <tr> <td>●</td><td>●</td><td>●</td><td>●</td><td>●</td> </tr> <tr> <td>●</td><td>●</td><td>●</td><td>●</td><td>●</td> </tr> <tr> <td>●</td><td>●</td><td>●</td><td>●</td><td>●</td> </tr> <tr> <td>●</td><td>●</td><td>●</td><td>●</td><td>●</td> </tr> <tr> <td>●</td><td>●</td><td>●</td><td>●</td><td>●</td> </tr> <tr> <td>●</td><td>●</td><td>●</td><td>●</td><td>●</td> </tr> <tr> <td>●</td><td>●</td><td>●</td><td>●</td><td>●</td> </tr> <tr> <td>●</td><td>●</td><td>●</td><td>●</td><td>●</td> </tr> <tr> <td>●</td><td>●</td><td>●</td><td>●</td><td>●</td> </tr> <tr> <td>●</td><td>●</td><td>●</td><td>●</td><td>●</td> </tr> </table> | ● | ● | ● | ● | ● | ● | ● | ● |  | ● |  |  |  |  | ● | ● | ● | ● |  |  | ● | ● | ● | ● | ● | ● | ● | ● |  | ● | ● | ● | ● |  | ● | ● | ● | ● | ● | ● | ● | ● | ● |  | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
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| ●             | ●  | ●   | ● | ● |   |   |   |   |   |   |  |   |  |  |  |  |   |   |   |   |  |  |   |   |   |   |   |   |   |   |  |   |   |   |   |  |   |   |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ●             | ●  | ●   | ● | ● |   |   |   |   |   |   |  |   |  |  |  |  |   |   |   |   |  |  |   |   |   |   |   |   |   |   |  |   |   |   |   |  |   |   |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ●             | ●  | ●   | ● | ● |   |   |   |   |   |   |  |   |  |  |  |  |   |   |   |   |  |  |   |   |   |   |   |   |   |   |  |   |   |   |   |  |   |   |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ●             | ●  | ●   | ● | ● |   |   |   |   |   |   |  |   |  |  |  |  |   |   |   |   |  |  |   |   |   |   |   |   |   |   |  |   |   |   |   |  |   |   |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

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

- 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 ● ● ● ●

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| <b>Version:</b>      | 2022.4.169 |           |          |           |                   |
| <b>Release date:</b> | 2022-07-07 |           |          |           |                   |
|                      | 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 ● ●
  - WebViewer: Server blocks incoming requests on high load #69 ● ●
  - Techdoc/BOM: Option to generate ID with only attribute value #129 ● ● ●

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

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| <b>Fixes:</b> | <ul style="list-style-type: none"> <li>▪ API: Compare two 3D models per URL parameter with Bestfit computation for auto alignment</li> <li>▪ Creo 8 file loads correctly #233</li> <li>▪ NX PRT: handle 2D/3D case correctly #401</li> <li>▪ SLDDRW: correct position of information flags #251</li> <li>▪ UpdateScene rework #161</li> <li>▪ Improve Split computation time #336</li> <li>▪ Clash: compute multiple times fix #201</li> <li>▪ Fix crash in Bestfit computation #368</li> <li>▪ Improve clipping plane handling in flythrough/with focus #52</li> <li>▪ Fix interactions, if section and markup creation are both active #92</li> <li>▪ Remove undo for configuration view creation #89</li> <li>▪ Wrong world bounding box in rare cases #343</li> <li>▪ Websocket closed behavior optimized for clients that sent connect message #301</li> <li>▪ WebViewer: Copy image to clipboard fix #247</li> <li>▪ Structure &amp; output panes are scaled along with resolution change #230</li> <li>▪ VR: Skybox fixed #374</li> <li>▪ VR: Display shadow correctly #340</li> </ul> |  |  |  |  |  |
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| <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
- 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

| Version:   | 2022.3.428 |           |          |            |                   |
|--|------------|-----------|----------|------------|-------------------|
| Release date:  | 2022-05-21 |           |          |            |                   |
|  | Desktop    | WebViewer | VisShare | VR-Edition | Automation Server |
| ▪ Markups: fix CustomID, reference and scale handling #252 #299 #300 | ●          | ●         | ●        | ●          | ●                 |
| ▪ Crashes with corrupted wires in rare cases #272                    | ●          | ●         | ●        | ●          | ●                 |
| ▪ BOM: copy to clipboard missing information #292                    |            | ●         | ●        |            |                   |
| ▪ Fix anchor for Markups in views #308                               | ●          | ●         | ●        | ●          | ●                 |
| ▪ Coordinate system picking highlight #40                            | ●          | ●         | ●        | ●          | ●                 |
| ▪ Improve instantiation #123   | ●          | ●         | ●        | ●          | ●                 |
| ▪ Clash volume color always black #239                               | ●          | ●         | ●        | ●          | ●                 |
| ▪ Save mouse settings for 2D correctly #55                           | ●          | ●         | ●        | ●          | ●                 |
| ▪ Display VSXML CustomIds correctly #313                             | ●          | ●         | ●        |            |                   |
| ▪ Improve transformations including TechDoc markups #160             | ●          | ●         | ●        |            |                   |
| ▪ Setup will check if the OS is compatible before installing         | ●          | ●         | ●        | ●          | ●                 |

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

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| <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>○ NX 2007</li> </ul> </li> </ul> | ● | ● | ● | ● | ● |
|             |   | ● | ● | ● | ● | ● |

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| <b>Version:</b>      | 2022.2.167 |           |          |             |                   |
| <b>Release date:</b> | 2022-04-11 |           |          |             |                   |
|                      | Desktop    | WebViewer | VisShare | VR-Editioin | Automation Server |

- Solid Edge 2022
- SolidWorks 2022

- Import 2D
  - CATIA V5-6R2022 (R32)
  - NX 2007, 2008, 2011, 2015
- Layer support for 2D documents #180

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| ● | ● | ● | ● | ● |
| ● | ● | ● |   |   |

**Fixes:**

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

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|   | ● | ● |   | ● |
|   | ● | ● |   |   |
|   | ● | ● |   |   |

```
<script>var _WVVersion =
".2022.2.167-
3d9e160cb0";</script>
```

- WV: svg-icons.xml renamed to match other files versioning style
- WV: references and loader adjusted

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| <b>Version:</b>      | 2022.1.136 |           |          |           |                   |
| <b>Release date:</b> | 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
  - 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

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

- New:**
- **IMPORTANT:**
    - Network licensing (Floating) requires license server version 5.0 or higher

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

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

**Fixes:**

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

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

- Improve volume calculation #47 ● ● ●
- Loading error when UTF8 characters are in filepath #81 ● ●
- Transform: Free drag not working #44 ● ●
- PMI properties: change font #59 ● ●
- Support info zipfile was not created #20 ● ●
- XML-API: ImportConfigurationViews fix #39 ● ● ●

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| <b>Version:</b>      | 2022.0.296 |           |          |           |                   |
| <b>Release date:</b> | 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 ● ● ●
  - CATIA: PMI references to solids #50 ● ● ● ●

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

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|               | ▪ Setting to load prototype views #51                      | ● | ● | ● |   |   |
|               | ▪ Setup creates backup of presets.xml                      | ● |   |   | ● |   |
| <b>Fixes:</b> | ▪ 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                 | ● |   |   | ● |   |
|               | ▪ XML-API: ImportConfigurationViews fix #39                | ● | ● | ● |   |   |

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| <b>Version:</b>      | 2021.1.835 |           |          |             |                   |
| <b>Release date:</b> | 2021-11-10 |           |          |             |                   |
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| <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>○ ACIS 2021 1.0</li> </ul> </li> <li>▪ Import 2D                             <ul style="list-style-type: none"> <li>○ NX 1980, 1984, 1988</li> <li>○ 2D DWG/DXF: option to load multiple layouts #7020 #2841 #5938 #6557 #6791</li> </ul> </li> <li>▪ Calculate Inertia</li> <li>▪ TIF: change contrast #7252</li> </ul>                                  | ● | ● | ● | ● | ● |
| <b>Fixes:</b> | <ul style="list-style-type: none"> <li>▪ FBX Export: Root nodes missing #7122</li> <li>▪ SolidWorks configurations: incorrect display of parts #6953</li> <li>▪ CATIA files could not be opened #7102</li> <li>▪ PLMXML: some files could not be opened #7224</li> <li>▪ Crash of PDFs in rare cases #7187</li> <li>▪ Speed up deletion of views #7089</li> <li>▪ 2D text search: Position of highlighting #6804</li> <li>▪ Coloring faces #7029</li> <li>▪ Export convex hull #7046</li> <li>▪ Optimize update view navigation #7211</li> <li>▪ Print of large 2D files #7242</li> <li>▪ Correct filepaths in VSXML export #7199</li> </ul> | ● | ● | ● | ● | ● |



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| <b>Version:</b>      | 2021.1.835 |           |          |           |                   |
| <b>Release date:</b> | 2021-11-10 |           |          |           |                   |
|                      | Desktop    | WebViewer | VisShare | VR-Editio | Automation Server |

- 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 ● ● ● ● ●

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

- New:**
- **IMPORTANT:** ● ● ● ● ●
    - Network licensing (Floating) requires license server version 5.0 or higher
    - Updated Microsoft Redistributables are needed (will

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| <b>Version:</b>      | 2021.1.424 |           |          |           |                   |
| <b>Release date:</b> | 2021-09-01 |           |          |           |                   |
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be installed during the setup routine)

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|               | <ul style="list-style-type: none"> <li>▪ Import 2D                             <ul style="list-style-type: none"> <li>○ TIFF performance increased #7070</li> </ul> </li> <li>▪ 2D measurements: choose document scale #6787</li> <li>▪ Search: PMI, markup, text added #7019</li> <li>▪ Wall thickness heatmap: option to keep preferred values #6988</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>Fixes:</b> | <ul style="list-style-type: none"> <li>▪ FBX export: prevent export of deleted geometries #7086</li> <li>▪ VSXML export: physical properties will be written #6972</li> <li>▪ Improve visibilities after transformation or rotation #7050</li> <li>▪ Length measurement: prevent crash #7085 #7105</li> <li>▪ Markup text: improve multiline handling #7033</li> <li>▪ Change path for logging to AppData directory #7025</li> <li>▪ VR: improve logging #7009</li> <li>▪ VR: improve screenshots #7010</li> </ul> | <ul style="list-style-type: none"> <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> </ul> | <ul style="list-style-type: none"> <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> </ul> |

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

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| <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> |
| <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> <li>●</li> <li>●</li> <li>●</li> <li>●</li> <li>●</li> </ul> |

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

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|-------------|---|---|
| <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> |
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| <b>Version:</b>      | 2021.0.132 | <b>Recommended Version</b> |           |          |            |                   |
| <b>Release date:</b> | 2021-07-20 | Desktop                    | WebViewer | VisShare | VR-Edition | 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



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

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

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

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

- |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |  |  |   |   |   |   |   |   |   |   |  |  |   |   |   |  |  |   |   |   |   |  |   |   |   |  |  |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---|---|---|---|--|--|---|---|---|---|---|---|---|---|--|--|---|---|---|--|--|---|---|---|---|--|---|---|---|--|--|
| <ul style="list-style-type: none"> <li>▪ Import 3D                     <ul style="list-style-type: none"> <li>○ JT 10.5 #6718</li> <li>○ NX - Unigraphics 1953</li> <li>○ Parasolid 33</li> <li>○ Rhino3D 7</li> </ul> </li> <li>▪ Export 3D                     <ul style="list-style-type: none"> <li>○ GL Transmission Format 2.0 #5566</li> </ul> </li> <li>▪ Import 2D                     <ul style="list-style-type: none"> <li>○ CATIA V5-6R2021 (R31)</li> <li>○ NX: 1953, 1957 and 1961</li> </ul> </li> <li>▪ GUI: Bounding box measurement optimized</li> <li>▪ 3D-Markups: Multiple references to curves and faces</li> <li>▪ Offset lines are now removable (by GUI and API) #6705</li> <li>▪ 3D-Markups: Variables and attributes can be used and line breaks can be set comfortably (GUI and API)</li> <li>▪ VR: Different controller models can be displayed</li> <li>▪ Ad hoc session sharing with multiple users</li> </ul> | <table border="0"> <tr><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td></tr> <tr><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td></tr> <tr><td>●</td><td>●</td><td>●</td><td></td><td>●</td></tr> <tr><td>●</td><td>●</td><td>●</td><td></td><td></td></tr> <tr><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td></tr> <tr><td>●</td><td>●</td><td>●</td><td></td><td></td></tr> <tr><td>●</td><td>●</td><td>●</td><td></td><td></td></tr> <tr><td>●</td><td>●</td><td>●</td><td>●</td><td></td></tr> <tr><td>●</td><td>●</td><td>●</td><td></td><td></td></tr> </table> | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |  | ● | ● | ● | ● |  |  | ● | ● | ● | ● | ● | ● | ● | ● |  |  | ● | ● | ● |  |  | ● | ● | ● | ● |  | ● | ● | ● |  |  |
| ●  | ●   | ● | ● | ● |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |  |  |   |   |   |   |   |   |   |   |  |  |   |   |   |  |  |   |   |   |   |  |   |   |   |  |  |
| ●  | ●   | ● | ● | ● |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |  |  |   |   |   |   |   |   |   |   |  |  |   |   |   |  |  |   |   |   |   |  |   |   |   |  |  |
| ●  | ●   | ● |   | ● |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |  |  |   |   |   |   |   |   |   |   |  |  |   |   |   |  |  |   |   |   |   |  |   |   |   |  |  |
| ●  | ●   | ● |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |  |  |   |   |   |   |   |   |   |   |  |  |   |   |   |  |  |   |   |   |   |  |   |   |   |  |  |
| ●  | ●   | ● | ● | ● |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |  |  |   |   |   |   |   |   |   |   |  |  |   |   |   |  |  |   |   |   |   |  |   |   |   |  |  |
| ●  | ●   | ● |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |  |  |   |   |   |   |   |   |   |   |  |  |   |   |   |  |  |   |   |   |   |  |   |   |   |  |  |
| ●  | ●   | ● |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |  |  |   |   |   |   |   |   |   |   |  |  |   |   |   |  |  |   |   |   |   |  |   |   |   |  |  |
| ●  | ●   | ● | ● |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |  |  |   |   |   |   |   |   |   |   |  |  |   |   |   |  |  |   |   |   |   |  |   |   |   |  |  |
| ●  | ●   | ● |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |  |  |   |   |   |   |   |   |   |   |  |  |   |   |   |  |  |   |   |   |   |  |   |   |   |  |  |

**Fixes:**

- |  |   |   |   |   |  |  |   |   |   |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
|--|---|---|---|---|--|--|---|---|---|--|--|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| <ul style="list-style-type: none"> <li>▪ Markup export: Node ID &amp; Custom ID added</li> <li>▪ Markup creation stability improved #6600</li> <li>▪ SolidEdge: Position of some lines were not correct #6345</li> <li>▪ PLMXML: Sequence number added to attributes #3799</li> <li>▪ XML-API:                     <ul style="list-style-type: none"> <li>● Fly mode rework #6589 #6770</li> </ul> </li> </ul> | <table border="0"> <tr><td>●</td><td>●</td><td>●</td><td></td><td></td></tr> <tr><td>●</td><td>●</td><td>●</td><td></td><td></td></tr> <tr><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td></tr> <tr><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td></tr> <tr><td>●</td><td>●</td><td>●</td><td></td><td></td></tr> </table> | ● | ● | ● |  |  | ● | ● | ● |  |  | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |  |  |
| ●  | ●   | ● |   |   |  |  |   |   |   |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
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| ●  | ●   | ● | ● | ● |  |  |   |   |   |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
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| <b>Version:</b>      | 2021.0.95  |           |          |           |                   |
| <b>Release date:</b> | 2021-05-10 |           |          |           |                   |
|                      | Desktop    | WebViewer | VisShare | VR-Editio | Automation Server |

- 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 ●

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

- 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 ●
- VR: Help menu ●
- VR: New design of Teleport with head height ●



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

- Wallthickness heatmap: Improved visualization #6415 ● ● ● ●
- 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 ● ● ● ● ●
  - 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 ● ● ● ● ●
  - SolidWorks: EPM vault storage files can't be opened #6481 ● ● ● ● ●

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| <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
  - Desktop
  - WebViewer
  - VisShare
  - VR-Edition
  - Automation Server

**Fixes:**

- Network licensing (Floating): License borrowing for offline use #6405
  - Desktop

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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 |

**New:**

- **IMPORTANT:** Network licensing (Floating) requires license server version 4.9.20 or higher
  - Desktop
  - WebViewer
  - VisShare
  - VR-Edition
  - Automation Server
- Minimum system requirements changed
  - Desktop
  - Automation Server
- **NEW SETUP WIZARD:**
  - Includes all KISTERS 3DViewStation products
  - Revised comfortable user guidance
  - Optimised software distribution for desktop products
  - Desktop
  - WebViewer
  - VisShare
  - VR-Edition
  - Automation Server
- **HELPCENTER:** Online knowledge base for end users and administrators. Offline fallback included.
  - Desktop
  - WebViewer
  - VR-Edition
  - Automation Server
- Import 3D
  - ACIS 2020
  - CATIA V5-2020
  - Desktop
  - WebViewer
  - VisShare
  - VR-Edition
  - Automation Server

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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 |

- Creo 7.0
- JT 10.3
- Inventor 2021
- NX 1926
- Export 3D
  - JT 8.1, 9.5 & 10.0 selectable by dropdown menu
- Import 2D
  - CATIA V6 / 3DEXperience R2020x
  - ProE / Creo Parametric 7.0
  - NX: 1911, 1915, 1919, 1926, 1930, 1934
- VSXML: Performance improvements #5388
- MicroStation .DGN format support discontinued
- **DISTANCE AND BAND ANALYSIS TOOL**
- **MEASUREMENT OF THE TOTAL / CUMULATED LENGTH** for tool path (laser, CNC, welding)
- **MEASUREMENT - ANGLE:** Line to line (projected)
- **MEASUREMENT - SOLID TO SOLID:** Performance 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

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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 |

- **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)
  - Setting to change the log level ● ●
  - JT: Import setting for (quality) level of tessellation ● ● ●
  - 2D: Enhanced zoom level ● ● ●
  - PDF: Support of embedded JT files ●
- 
- 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 ● ● ● ● ●

**Fixes:**

|                      |            |                            |           |          |            |                   |
|----------------------|------------|----------------------------|-----------|----------|------------|-------------------|
| <b>Version:</b>      | 2020.1.385 | <b>Recommended Version</b> |           |          |            |                   |
| <b>Release date:</b> | 2020-10-20 | Desktop                    | WebViewer | VisShare | VR-Edition | Automation Server |

- SolidWorks: Assembly didn't load with 'Prefer BREP' ● ● ● ● ●
- Structure tree: Vertical scrollbar disappeared after Drag and Drop #5603 ● ● ● ● ●

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

- New:**
- **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. ● ● ● ● ●
    - 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 ● ● ● ● ●



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

- Missing images after importing views
 

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- View transition ghost state issues fixed
 

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- API: UpdateScene error handling optimized
 

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- API: Views play animated transition handling available
 

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

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

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    - Network licensing (Floating) requires license server version 4.9.20 or higher.
    - Minimum system requirements changed.
 

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    - **NEW SETUP WIZARD:**

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      - 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.
 

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

- 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
- **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.

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| <b>Version:</b>      | 2020.1.298 |           |          |             |                   |
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|                      | Desktop    | WebViewer | VisShare | VR-Editioin | Automation Server |

- Default substitution font changed from Arial to MyriadCAD for better support of special characters and symbols. ● ● ● ● ●
- API: IFC Get/SetBCFVisualizationInfo with unit (default: meter) #6033. ● ● ● ● ●
- API: New focus method - variable transition to show the area of selected objects. ● ● ● ● ●
- PMI: Possibility to edit all text fields. ● ●
- Color adjustment is possible directly by entering hexadecimal or RGB values. ● ● ●
- Optimized **OUTPUT** window: ●
  - The output window is now managed per scene.
  - The new tab "General" contains feedback on network licensing.
  - New Setting: Enhanced loading statistics (progress tab).
- Setting to change the log level. ● ●

**Fixes:**

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

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| <b>Version:</b>      | 2020.1.298 |           |          |            |                   |
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|                      | Desktop    | WebViewer | VisShare | VR-Edition | Automation Server |

- 2D DXF: Missing lines in rare situations #5528 #5645 #5909. ● ● ● ● ●
- 2D DXF: Wrong scaling in rare cases #5537. ● ● ● ● ●
- FBX export: Surfaces sometimes had wrong colors #4537. ● ● ● ● ●
- IFC: Lines caused an empty scene in rare cases #5901. ● ● ● ● ●
- JT: Convert from 3DVS not possible in rare cases #5176. ● ● ● ● ●
- NX: Missing attributes in 'No category' #3728. ● ● ● ● ●
- STEP: Attributes with \$ characters weren't shown correctly #5627. ● ● ● ● ●
- STEP: PMIs were transparent #5006. ● ● ● ● ●
- SVG export: Node color was ignored when a vertex color was set #5777. ● ● ● ● ●
- VDA: Stability improvements #5488. ● ● ● ● ●
- API: BCF default visibility fixed #6086. ● ● ● ● ●
- API: UpdateScene / SetSelectedNodes by CustomId #5963. ● ● ● ● ●
- API: Ghost / Constraints GhostLocked - Initial view, wrong state of ghosted nodes #5963. ● ● ● ● ●

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| <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

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| <b>Version:</b> | 2020.0.29 | Recommended Version |
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**Release date:** 2020-04-15

**Fixes:**

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

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| <b>Version:</b> | 2020.0.22 | Recommended Version |
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**Release date:** 2020-04-09

**New:**

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

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

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| <b>Version:</b> | 2019.1.132 |
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**Release date:** 2020-02-17

**Enhancements:**

- Start up speed of 3DViewStation increased

**Fixes:**

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

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| <b>Version:</b> | 2019.1.126 |
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**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 (\*)

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| <b>Version:</b> | 2019.1.126 |
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- Added support for more CATIA attributes types #5312
- Added version number to title bar
- Improve e57 point cloud import #5275
- Support of additional fonts in drawings #2804 #5024
- STEP AP242: Export of markups #5014
- Filter renamed to Search (ribbon Tools)
- Added Search option: Case sensitive #3996
- Added Search option to find content of markups/PMIs
- New options for wire coloring of solids #3371

**Fixes:**

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

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| <b>Version:</b> | 2019.1.53 |
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**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

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| <b>Version:</b> | 2019.0.721 | <b>Recommended Version</b> |
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**Release date:** 2020-02-17

**Fixes:**

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| <b>Version:</b> | 2019.0.721 | <b>Recommended Version</b> |
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- Hotfix for 2019.0.720: Windows 7 support

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| <b>Version:</b> | 2019.0.720 | <b>Recommended Version</b> |
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**Release date:** 2020-02-11

**New:**

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

**Fixes:**

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

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| <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

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| <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



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

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| <b>Version:</b> | 2019.0.609 | <b>Recommended Version</b> |
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**Release date:** 2019-08-27

**New:**

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

**Enhancements:**

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

**Fixes:**

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

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| <b>Version:</b> | 2019.0.529 |
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**Release date:** 2019-07-12

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| <b>Version:</b> | 2019.0.529 |
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**New:**

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

**Enhancements:**

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

**Fixes:**

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

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| <b>Version:</b> | 2019.0.420 |
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**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

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| <b>Version:</b> | 2019.0.420 |
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- Attributes are not read in correctly #1993
- White background in drawing ensures that font is not visible #2811

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| <b>Version:</b> | 2019.0.383 |
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**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

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| <b>Version:</b> | 2019.0.340 |
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**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

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| <b>Version:</b> | 2019.0.232 |
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**Release date:** 2019-01-31

**New:**

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| <b>Version:</b> | 2019.0.232 |
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- Transform: Move from circle center to circle center
- Importable format: e57
- Selection mode: Instance
- STEP: Import-Setting to select NAUO #2487
- Change colors of coordinate system #3933
- Turntable camera control
- Technical documentation (TECHDOC license option required)
- Split solids (ADVANCED\_ANALYSIS license option required)
- Remove/Generate normals
- Change PMIs on import with width-/height factor
- Tutorial update

#### Enhancements:

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

#### Fixes:

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

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| <b>Version:</b> | 2018.0.365 | <b>Recommended Version</b> |
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**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

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| <b>Version:</b> | 2018.0.360 | <b>Recommended Version</b> |
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**Release date:** 2019-02-08

**New:**

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| <b>Version:</b> | 2018.0.360 | <b>Recommended Version</b> |
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- 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

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| <b>Version:</b> | 2018.0.350 | <b>Recommended Version</b> |
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**Release date:** 2018-12-06

**New:**

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

**Enhancements:**

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

**Fixes:**

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

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| <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

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| <b>Version:</b> | 2018.0.342 | <b>Recommended Version</b> |
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**Fixes:**

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

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| <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
- 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

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| <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:**

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| <b>Version:</b> | 2018.0.319 |
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- Solved problem when importing STEP data #3260
- Import dialog: focus issue #3457
- Solved problems with PDF Templates #3424 #3464
- ActiveX: AddContextMenuItems 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

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| <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
- 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

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| <b>Version:</b> | 2018.0.212 |
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**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

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| <b>Version:</b> | 2018.0.212 |
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**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

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| <b>Version:</b> | 2018.0.95 |
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**Release date:** 2018-06-07

**New:**

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

**Export 3D:**

- IFC

**Fixes:**

- ActiveX connection problem

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| <b>Version:</b> | 2018.0.77 |
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**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

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| <b>Version:</b> | 2018.0.57 |
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**Release date:** 2018-05-17

**New:**



**Version:**

2018.0.57

- 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