

## KISTERS 3DViewStation Desktop V2017 release

The Kisters 3DViewStation is an extremely high performance 3D viewer, 3D CAD analysis & Digital Mockup (DMU) tool with modern Office compliant UI, which loads native and neutral CAD-data extremely fast. For integrations you can use our Desktop version as well as ActiveX version, which supports virtual product structures and provides graphical navigation capabilities for the visual enterprise.

With the current set of functions and features the 3DViewStation is the perfect tool for usage in sales, marketing, review processes, change management, work preparation and technical documentation on Windows desktops, notebooks and tablet-PCs. Use as a standalone app or integrated in PLM/PDM/ERP, and other systems.

**Version: Current release**

**Release date: 2018-02-28**

- **Enhancements:**
  - Enhancement of functionality for mirroring geometries
  - Further speed improvement for the wall thickness heatmap computation.
- **Fixes:**
  - Fix problems with exporting umlauts #2757
  - Fix import problems of Rhino files #2767
  - Fix positioning problems for CATIA V4 & V5 #2764
  - Fix conversion problem of 2D formats to 3DVS and PDF #2684
  - Fix crash due to Asian characters in file name #2746
  - Fixed FBX Export issue causing crashes of ViewStation
  - Fixed issues with rounded decimal places
  - Problem importing drawings #2745

**Version: 2017.1.149**

**Release date: 2018-02-19**

- **Update:**
  - TeamViewer 13.0
  - Translation of the interface [ENU, DEU, ITA, ESP, FRA, CHS, KOR, JPN]
  - Russian translation is no longer supported
- **Enhancements:**
  - Measurement: Distance “Circle axis to Circle axis”, “circle center to circle center” and “Circle center (pipe) to face”
  - Circle detection via 3-points
  - Change automatically to software rendering mode if DirectX feature level is too low
  - Great improvement in speed and visualization for wall thickness heatmap.
- **Fixes:**
  - ActiveX: Problem solved where the print dialog was not displayed anymore
  - Initialize explosion slider correctly
  - Solved problem with the “about dialog” on windows 7
  - SolidWorks: Solved errors with importing drawings (2D) in existing drawing scene
  - Solved problem causing some panes not closing on escape
  - STEP/CATIA views are now displayed correctly
  - Transparency problems with CATIA
  - Solved problem with the handles which are used to move the section layer
  - Solved wrong positioning of some PMI texts
  - Solved bug that prevented creating a proper 2D scene for some drawings

**Version: 2017.1.78**

**Release date: 2018-01-18**

- **Functionality:**
- Neutral Axis
- Optimize instances
- **Update Import 2D:**
  - NX12
  - SolidWorks 2018
  - DWG 2018
- **Enhancements:**
- VSXML: Faster import
- XML-API: Multiline text markups
- **Fixes:**
- 3DVS: Import of attributes

Version: 2017.1.40

Release date: 2017-12-21

- **Import 3D:**
  - SolidWorks 2018
  - Solid Edge ST10
- **Import 2D:**
  - ASCII text (.txt)
- **Functionality:**
- IP protection (IPP): Distort (Brep and tessellation)
- IP protection (IPP): Visibility test (faces and triangles).
- **Enhancements:**
- Tutorial update (German)
- Updater and overrides.xml:  
Due to the updater's improvement, the dependent settings have also been changed. Please take this into account if you are using overrides.xml.
- **Fixes:**
- Export: 3DPDF Colors and transformations in views
- 3DMF command line
- Install license via drag and drop

Version: 2017.1.11

Release date: 2017-11-28

- **Fixes:**
- License activation error

Version: 2017.1.10

Release date: 2017-11-20

- **Import 3D:**
  - FBX
- **Export 3D:**
  - 3MF
  - FBX
- **Functionality:**
- 2D text search

- Collect support information via button
- Calculate number of triangles
- **IP protection (IPP):**
- Alienate BREP
- Alienate tessellation
- Remove invisible parts
- **Enhancements:**
- Enhanced tool for unattended activation
- Button to search for updates
- Filtering attributes according to schema
- Heatmap presets
- Density presets
- Create projected area as geometry
- **Performance improvements:**
- Multi-core sectioning
- Multi-core rendering

#### Version 2017.0 build 20860

- **Fixes:**
- CATIA: No color
- Demo with Korean language

#### Version 2017.0 build 20831

- **Fixes:**
- VSXML: File reference handling
- 3DVS: Incremental loading
- **Functionality:**
- BCF: Get camera perspective and orthogonal
- Change default render mode to "solid" and "wires"

#### Version 2017.0 build 20820

- **Fixes:**
- Correct positioning when moving nodes in the structure

#### Version 2017.0 build 20789

- **Functionality:**
- Attribute mapping
- **Fixes:**
- Demo with Korean language
- Set language in setup
- Import: 2D advanced
- KAS: Single importer licensing
- Clash detection: Penetration depth

#### Version 2017.0 build 20784

- **Functionality:**
- Import: CPIXML
- **Enhancements:**
- Translation
- **Fixes:**
- 3DVS-Format: Compatibility issue
- Color distortion when converting from CATpart to STEP

#### Version 2017.0 build 20769

- **Enhancements:**
- Translation: English, German, Italian, Spanish, French, Russian, Korean, Chinese, Japanese
- **Functionality:**
- CATIA external references
- Company default settings e.g. for silent installation
- **Fixes:**
- Physical properties for multiple selections
- STEP: Incorrect detection as 2D document
- Transform: Highlighting of coordinate systems
- Unit handling for import in new scenes

#### Version 2017.0 build 20694

- **Enhancements:**
- Rotation functionality on the document tab reactivated for 3D documents
- Import
  - **Catia V5-6R2017**
  - **Inventor 2018**
  - **Parasolid v30**
  - **Acis 2017.1 (R27)**
- **Fixes:**
- Incorrect detection of 3D documents as 2D document
- STEP: Parsing error due to malformed attributes
- IPT: Flickering and incorrect positioning
- Incorrect positioning of wires
- KAS returns proper values after conversion
- KAS: XSD-validation file is cleaned up after each session
- Updater: Incorrect interpretation of the maintenance date
- SolidEdge import

#### Version 2017.0 build 20362

- **Functionality:**
- Validate coordinates to avoid inaccuracies if geometries are positioned far from the origin
- View settings: Transition and display duration for animated view changes
- **Enhancements:**
- Translation: Italian, Spanish, French, Russian, Korean
- DXF: Measurement accuracy
- DWG: Measurement accuracy
- Importer initializing
- Circle detection via 3 points
- Add more materials
- Import of CAD-drawings: Prefer 3D or 2D (license required)
- **Fixes:**
- 3DVS: Move root nodes with correct scaling
- Solid Edge: Transformation/positioning
- 3DPDF: Transformations in views
- CATIA: Missing attributes
- Wall thickness - Sphere dimensioning
- Edit the density of a geometry
- Set language during setup
- Export of transformations on the master root node and root node
- Visualization of markups
- Shortcuts (needed to delete the setting "<Accelerators[...]>" or a factory reset)
- Selection modifier
- Printing: Large scale formats, custom line width
- ActiveX

#### Version 2017.0 build 19599

- **Fixes:**
- ActiveX compatibility

#### Version 2017.0 build 19479

- **Functionality:**
- 2D IMPORT (licensens needed):
  - Catia V4 Drawings
  - Catia V5 Drawings
  - Catia V6 Drawings
  - Creo Drawings
  - NX Drawings
  - SolidEdge Drawings
  - Solidworks Drawings
- **Fixes:**
- DXF: Scaling
- KAS: Exiting after job is done
- **Enhancements:**
- 2D line weight
- 2D zoom level

#### Version 2017.0 build 19254

- **Functionality:**
- IMPORT: CREO 4.0
- **Fixes:**
- CREO/ProE: Several import issues
- Solid Edge: Import with attributes
- JT: Import of construction and references
- STEP: Import with read PMIs enabled

#### Version 2017.0 build 18814

- **Enhancements:**
- Wallthickness: Better multicore support for faster computation
- **Fixes:**
- Clash detection: Stop computation
- Solid Edge: Representation issue
- Stability issue with certain wire geometries

#### Version 2017.0 build 18654

- **Functionality:**
- Settings search bar
- Overrides for specific setting on start up
- Create coordinate system via circle center and plane
- **Enhancements:**

- Compute gravity center to the activated coordinate system
- **Fixes:**
- Create coordinate system via three planes
- DropConvert tool compatibility
- ActiveX control
- Compare: swapped colors

#### Version 2017.0 build 18393

- **Fixes:**
- Compatibilities issues with previously installed 3DViewStation version
- Constraints handling

#### Version 2017.0 18331

- **Functionality:**
- Import options for layer handling / merge layers
- **Fixes:**
- 3DVS scaling for old 3DVS files
- PMI-Highlighting
- Import VSXML

#### Version 2017.0 18174

- **Functionality:**
- 3DVS: Fully shattered export
- Node name replacement
- **Fixes:**
- Setup language selection
- Importer initializing error if reset to manufacturer settings

#### Version 2017.0 build 18115

- **Changes:**
- New path for installation, registry keys and settings, please contact the support for details (e.g. silent installation)
- Setting handling changed from registry keys to xml-file
- **Functionality:**
- XML settings and profiles
- Save selections
- Node constraints: Prevent object from section / recoloring / ghosting / transparency / material / visibility change
- Global coordinate system: Create a coordinate system in the origin of the scene
- Part coordinate system: Create a coordinate system in the origin of a part
- Update notification
- Measurement distance from coordinate axis to coordinate axis
- Wallthickness: Rolling ball (sphere) method
- Render modes: Materials and shadows
- Animation: Rotations
- Background: Image and skybox
- Import: HiCAD
- Convert: VSXML (3DVVSXML)

- Export 2D: Quick vector export
- DXF (2D) export:
  - layers
  - blocks
  - circles recognition
  - template
  - string replacement
  - conform AutoCAD DXF R12
- **Enhancements:**
- Illustration render mode settings
- Illustration render mode optimized: 50% less memory usage and faster rendering
- Draft angle analysis: Restore values via saved views
- Clash detection: Clash modes
- Performance & handling of ultra large assemblies:
  - multi-threaded 3DVS file format loading
  - set minimum frame rate
  - progressive load: start rendering while still loading
  - no dedicated graphics adapter required to achieve fast rendering
- **Fixes:**
- 3DPDF show construction wires
- CATDrawing: Wire color
- KAS: Ignore views
- Compare: Changing color issue
- Exact compare: Issue with mirrored copies

#### Version 2016.1 build 16992.10.0

- **Enhancements / Fixes:**
- KAS Settings

#### Version 2016.1 build 16018.10.0

- **Functionality:**
- Import: NX 11
- Import: Solid Edge ST09
- Import: SolidWorks 2017

#### Version 2016.1 build 16018.9.2

- **Enhancements / Fixes:**
- CATIA: Import assemblies with PMIs
- NX: Import assemblies with PMIs
- CGM: Accuracy

#### Version 2016.1 build 15625

- **Enhancements / Fixes:**
- Add origin coordinate system
- DropConvert edit export formats list
- 3DVS file format color and import



#### Version 2016.1 build 15253

- **Enhancements / Fixes:**
- Stability improvements
- Import: Density unit scaling correction
- 3DVSXML: Export scaling correction

#### Version 2016.1 build 14831

- **Enhancements / Fixes:**
- Licensing: Activation

#### Version 2016.1 build 14722

- **Enhancements / Fixes:**
- Print: Recenter preserve scaling

#### Version 2016.1 build 14642

- **Enhancements / Fixes:**
- STEP: Coloring of faces

#### Version 2016.1 build 14543

- **Enhancements / Fixes:**
- ActiveX: Printing

#### Version 2016.1 build 14504

- **Enhancements / Fixes:**
- Grid: Respected floating format precision

#### Version 2016.1 build 14403

- **Enhancements / Fixes:**
- 2D: Accuracy
- 2D: Raster image in vector image available

#### Version 2016.1 build 14361

- **Enhancements / Fixes:**
- 3DPDF: Transparency
- CATIA drawings: Thread dimensioning
- CATIA: BREP import
- Asian fonts in file name, path and properties
  
- **Functionality:**
- Transform: Plane to plane

#### Version 2016.1 build 14326

- **Enhancements / Fixes:**
- Export: STEP corrected positioning
- Export: Convex hull
- Transform with temporary boundary condition
- Improved stability when closing tabs
- Improved stability when using a space mouse

- **Functionality:**
- Import: CATIA V5-6 2016
- Import: Inventor 2017

#### Version 2016.1 build 14157

- **Enhancements / Fixes:**
- New tutorial: France
- Tutorials: Missing pictures
- Font support
- Pickable lines
- Saving on UNC pathes
- Dimensioning: Part bounding box
- Circle detection
- Warning for open shells
- CATIA drawings: Fixed alignment
- Multipage TIFF with different page size
- Draft angle analysis: Angles colors
- Import: 3DXML
- Import: CATIA CGR
- Import: CATIA V5 color issue
- Import: CATIA BREP
  
- **Functionality:**
- Cutting plane via 3 circle centers
- Cutting plane via 3 points
- Transform with temporary boundary condition
- Set unit scale
- 2D: Measurement
- 2D: Markups
- 2D: Quick compare
- 2D: Illustration render mode
- 2D: Invert colors
- Export: STEP AP242
- Export: 3DVSXML first level only

#### Version 2016 build 13344

- **Enhancements / Fixes:**
- UI: France translation
- Neighbourhood search: Sphere
- DirectX Feature level lower 10 (e.g. VM emulated display driver)
- New tutorial: Chinese, Spanish, Italian, Japanese, Korean, Russian

#### Version 2016 build 13184

- **Enhancements / Fixes:**
- Kisters Automation Server (KAS) integration (license required)

#### Version 2016 build 13170

- **Functionality:**
- Transform: Circle axis to circle axis
- Unghost a selection
  
- **Enhancements / Fixes:**
- New tutorial – English
- Renderer fallback option: DirectX 11 feature level 9.1
- Selection for available video adapters
- Heatmap: Stop computing
- Transform: Point to point
- Transform: Mirror color issue
- Print: Lines and outlines
- Model tree: Drag and drop nodes
- Draft angle analysis: Save settings
- Measurement angle: Line to line
- Measurement angle: Plane to plane
- Exact compare
- Import: JT
- Import: CatiaV5 - CGR
- Import: Multipage CATIA drawings
- Export: 3DVS to STEP false positioning
- Export: STEP surfaces with several loops
- Export: Creating non existing directories during export

#### Version 2016 build 12706

- **Functionality:**
- Create coordinate system by three right angled planes

#### Version 2016 build 12520

- **Enhancements / Fixes:**
- New tutorial – German
- CATIA assembly with PMIs
- Write STEP with smaller file size
- Import with construction and references
- Set density for a selection
- Hide active coordinate system
- Save heatmap
- Create part bounding box with an active coordinate system

#### Version 2016 build 12372

- **Functionality:**
- Recompute physical properties on user defined LOD
- **Enhancements / Fixes:**
- Compute physical properties
- 3DVSXML with unit scale
- Printing: Filename and Markups
- STEP AP242 PMIs

#### Version 2016 build 12252

- **Functionality:**
- Snapping endpoints of drawn wires
- Cutting plane: Hide current and created geometries during moving the cutting plane
- **Enhancements / Fixes:**
- Cutting plane create surface
- Printing
- Compatibility of old 3DVS files
- Quick compare
- Rotate by value input

#### Version 2016 build 12177

- **Enhancements / Fixes:**
- Floating license
- Export: No change of filename in tab

#### Version 2016 build 12149

- **Enhancements / Fixes:**
- Cutting plane: Cutting geometry
- Export for created points
- Focus for created points

#### Version 2016 build 12107

- **Enhancements / Fixes:**
- Optimized 3DVS file format (faster loading, smaller file size, less memory usage)
- Optimized 3D render engine
- Computing physical properties during the import for models containing tessellation only
- Neighbourhood search with more options
- New visualization for angle dimensioning
- Save heatmap in views
- Cutting plane: Exact positioning with offset values
- **Functionality:**
- Animated view change
- Exact compare on geometry selections
- Step AP242 validation properties
- DXF and SVG output scaling

***KISTERS 3DViewStation Desktop V2015.1 release (V2015.1.11486.9.00)***

**Version 2015.1 build 11486 HotFix**

- **Enhancements / Fixes:**
- Snapping edges on cut geometries

**Version 2015.1 build 11399 HotFix**

- **Enhancements / Fixes:**
- Import "as is": 3D Studio, OneSpace Designer, COLLADA, KMZ, Lattice XVL, CADDs, and Wavefront Object

**Version 2015.1 build 11372 HotFix**

- **Enhancements / Fixes:**
- CGM Text annotation
- ActiveX

**Version 2015.1 build 11245 HotFix**

- **Functionality:**
- Creating coordinate systems in circle center with preview
- Automatically activate coordinate system after creating
- Automatically activate cutting plane after creating a coordinate system
- **Enhancements / Fixes:**
- Measure point coordinate

**Version 2015.1 build 11157 HotFix**

- **Functionality:**
- Preview for creating coordinate systems
- Transform: Coordinate system to coordinate system
- **Enhancements / Fixes:**
- Clash detection

**Version 2015.1 build 11075 HotFix**

- **File formats:**
- STEP AP242 XML

**Version 2015.1 build 11050 HotFix**

- **File formats:**
- Solid Edge ST8
- SolidWorks 2016
- **Functionality:**
- Drag and drop nodes in model tree
- **Enhancements / Fixes:**
- Printer support
- IFC color support
- PDF export
- NX assemblies support
- Solid Edge assemblies support
- CATIA corrected placement
- JT transparency
- Clash detection

- Transformation
- Grid
- Dimensioning with offset lines
- Translations

#### Version 2015.1 build 10784 HotFix

- **Enhancements / Fixes:**
- Circle measurement
- 3Dconnexion mouse support

#### Version 2015.1 build 10729 HotFix

- **Functionality:**
- Snapable coordinate system origin
- **Enhancements / Fixes:**
- Internal screenshots
- Density measurement

#### Version 2015.1 build 10677 HotFix

- **Enhancements / Fixes:**
- Full shader compatibility with DX9.1 feature level for VMware SVGA drivers
- 3Dconnexion mouse support
- Chinese translation
- Minimal distance measurement
- **Functionality:**
- Font substitution for DXF, DWG, DGN

#### Version 2015.1 build 10449 HotFix

- **Enhancements / Fixes:**
- Enhanced offsetlines (automatic mode)
- Enhanced undo for transparency
- Ribbon DXF-Export
- DXF-export with colored lines and dashes
- Offsetlines in illustration mode
- Measurement with activated coordinate system
- Text quality
- **Functionality:**
- Auto rotate with FPS output

#### Version 2015.1 build 10269 HotFix

- **Enhancements / Fixes:**
- Enhanced: graphics cards recognition
- Enhanced: some undo operations
- 3D-PDF export: empty view carousel

#### New in Version 2015.1 build 10196

- **File formats:**
- 3D: import of Catia V5-6 2015 (R25)
- 3D: import of NX 10.0.1
- 3D: import of Inventor 2016

- 2D: import of DXF, DWG, DGN
- 2D: import of MS Word, MS Excel, MS Powerpoint
- 2D: export SVG (lines and polygons)
- 2D: export DXF (lines)
- **Functionality:**
- Upgrade graphics renderer to DX 11
- New: XML API
- New: minimum BoundingBox
- New: graduated colors wallthickness
- New: physical properties calculation now in analysis and on demand
- Faster: virtualized model tree
- Views management: change background color / inverse order for selected views
- Dimensions & annotations: more ISO like, compatible with PMIs
- Enhanced: high quality & fast SVG export
- Enhanced: clash
- Enhanced: 3D-PDF export
- **Compatibility:**
- Requires Platform Update for Windows 7 SP1 / Windows Server 2008 R2 SP1

#### Version 2015 build 9131 HotFix

- **File formats:**
- Import of Autodesk DWF files
- Import of Inventor 2016
- Import of Catia V5-6 R2015 (R25)
- **Enhancements / Fixes:**
- Fixed color issue of exported JT-Data
- Creo skeleton entities are now set as hidden by default
- SolidWorks enhancements related to configuration management
- Inventor enhancements related to B-rep
- JT markup linked item
- JT PMI cross highlighting, PMI filtering
- SolidEdge enhancement related to assembly feature support
- Catia optimized performance with bufferized data support
- Catia enhancements on graphical PMI data and markup linked item
- NX enhancements on tree structure
- NX optimized support of reference sets and PMI
- IGES / STEP enhancements on orientation computation
- ActiveX Save File Batch
- Check of Geometry Instance IDs

#### Version 2015 build 8873 HotFix

- **Enhancements / Fixes:**
- Import layer issues fixed
- Missing translations fixed
- Export of curves without BREP fixed
- BREP export optimized
- Geometry ID of non-text markups fixed

#### Version 2015 build 8815 HotFix

- **Enhancements / Fixes:**

- DirectX 9 use system memory only for some Intel HD graphic drivers
- Pattern creation for non-indexed lines improved
- Parser handling of non-uniform scale transformations
- Transparency rendering improved
- 2D-Print dialog optimized
- Layer pane issues fixed
- Endless playing views issue fixed
- 3D-PDF export: new template (top level only part list)
- "load structure only" new error message
- Compare color settings optimized and new default colors
- LM-X licensing update: solving issues after changing user permissions

#### Version 2015 build 8654 HotFix

- **Enhancements / Fixes:**
- Proxy settings for license Activation optimized
- PDF document metadata prevent overwriting
- 3DVS parser create PMI text optimized
- Catia drawings missing transformations improved
- Copy and Paste PMI nodes issues fixed
- Add FocusSelection() ActiveX API

#### Version 2015 build 8551 HotFix

- **Enhancements / Fixes:**
- Importer memory leak (Catia R24 Parts) fixed
- Drawing element positioning improved
- Crash on measurement distance on created points fixed
- Retessellate with user defined maximum chord height (registry setting only)
- Crash on LM-X GetLicenseInfo issues fixed
- BREP internal ID handling optimized

#### Version 2015 build 8486 HotFix

- **Enhancements / Fixes:**
- Re-adjust clipping planes optimized
- PMI Markup parsing optimized
- 3DVS last view issues fixed
- 3DVS BREP import and ID issues fixed
- Proxy Dialog for License Activation
- Crash on clicking background after measurement fixed
- Floating license check optimized
- Separate compute physical property option
- API mouse leave event
- API bounding box

#### New in Version 2015 build 8380

- **File formats:**
- Import of NX 10
- Import of SolidWorks 2015
- Import of JT 10
- Import of Parasolid 27
- Import "as is": Calcomp, CGM, Photoshop (Preview)



- Improved Catia import: piping objects
- Improved STEP import: healing option
- Improved export to 3D-PDF and JT: translate dimensions to PMI
- 2D bitmap viewing: BMP, CALS Type-1, GIF, JPG, JPEG2000, PBM, PNG, PNM, PPM, TIFF
- 2D vector viewing: DWF, HPGL, HPGL/2, Gerber RS274-D and RS274X
- **Features:**
- New: copy & paste selection into new window (including BREP)
- New: explode: face-based models
- New: convex hull (envelope) calculation
- Improved: rotation align normal to normal
- Improved: clash detection
- Improved: transparency handling of complex parts
- Improved: BREP management
- Improved: 3DVS BREP import export
- Improved: full screen view for 2D and 3D
- Improved: font handling
- **Enhancements / Fixes:**
- API Call logging
- Rectangle selection fixed
- Restart without reloading file
- Pane scrolling fixed
- Black screen / Screen lock after system wake up or user change fixed
- 3DVS BREP memory leak fixed

### 3DViewStation - Scenarios and Details:

#### High performance - your time is money

You need to be able to complete your tasks in a continuous flow, which is why we have ensured that the import interfaces with the various CAD systems function as quickly as possible. And now that 3DViewStation is available in a 64-bit version as well, all previous storage limits have gone out the window. Step on the gas pedal and utilize our internal data format whenever you need maximum performance.

#### 70% of all users...

... look for an intuitive, easy to use application to load 3D CAD data quickly, and for options to measure, slice, and compare components and assemblies quickly and easily. We have done our best to ensure that your work with 3DViewStation is a real pleasure.

#### Technical documentation and collaboration

Technology editors are always on the lookout for intuitive solutions to map and display products in various states. They need to hide or show parts, color parts, create exploded views. Using the 3DViewStation you simply export the result as an image and integrate it into your work- or assembly instruction. If you prefer communicating your data in 3D, then you will love the export capabilities of 3DViewStation to STEP or 3D PDF.

#### Integration and automation

Geometries are often managed not just on the file system, but via ERP, PLM, or other data management systems (e.g. proprietary systems). Kisters 3DViewStation comes equipped with a comprehensive programming interface (API) to facilitate any kind of automation. It allows the loading and positioning of geometries, and the comparing or manipulating of their storage location. Via the API, Kisters 3DViewStation allows the coloring of parts, dynamic builds of structures (e.g.

variants and configurations), and the querying of the position and attitude of parts or the forwarding of events to a guiding application, once a part is clicked - e.g. to then search for meta data in PLM or ERP.

**Version 2014.2 build 8117 HotFix**

- **Enhancements / Fixes:**
- PMI picking optimized
- Software deployment with Activation
- 3DVS import optimizations

**Version 2014.2 build 8082 HotFix**

- **Enhancements / Fixes:**
- Activation process optimized
- PRC Tessellation export improved
- 3DVS loading views optimizations

**Version 2014.2 build 8037 HotFix**

- **Enhancements / Fixes:**
- Use 3D-Mouse without window focus
- LAC license file path
- 3DVS dimensioning fix

**Version 2014.2 build 8020 HotFix**

- **Enhancements / Fixes:**
- PMI Views improved
- ActiveX load 3D-PDF fixed
- PMI on root layer fixed
- No Software Rendering error message
- Hide geometry after extracting faces
- 3DVS Parser optimized

**Version 2014.2 build 7965 HotFix**

- **Enhancements / Fixes:**
- Perspective view enabled and optimized
- New transparency rendering
- 2D Window cascade / arranging
- 2D Bitmap format viewing
- 3DVS format save issues fixed (BREP)
- Copy & Paste objects optimized
- Picking in move point to point fixed
- Filter PMI's "Note\_\*" option
- Reading of PMI attributes
- PDF export optimized
- Reading of older 3DVS files optimized

**Version 2014.2 build 7884 HotFix**

- **Enhancements / Fixes:**
- Parser error on PMI read fixed
- PDF template path fixed
- Variable line width on printing
- PMI view export optimized

- License Activation
- Cut geometry wires optimized

#### Version 2014.2 build 7831 HotFix

- **Enhancements / Fixes:**
- Catia Drawings improved
- Re-center Cutting Handle
- Translation updated for Japanese language
- 3D Mouse support optimized
- UI missing translations and icons fixed
- 2D PDF view

#### New in Version 2014.2 build 7768:

- **File formats:**
- import of Catia V5-6 2014 (R24)
- import of Creo 3
- import of Inventor 2015
- import of SolidEdge ST7
- import of 2D-PDF
- import: load structure only + load selected parts/assemblies later
- export of 3D-PDF: new template with views carousel
- export of 3D-PDF: PMI to feature associativity
- export of 3D-PDF: associative part list
- export markups as PMIs to i.e. 3D-PDF, JT
- export optimization for tessellation, BREP, custom created & modified assembly structures
- vector export to SVG
- **Features:**
- fire up standard application for unknown file formats
- 3DVS files can contain BREP and tessellation now
- new 3DVS file default write mode (tessellation and geometry)
- license activation for seat licensing
- PMI section views: activate section function for such views
- re-tessellate geometry without re-loading it (BREP mode)
- analyze: clash detection (as is)
- analyze: multiple sections in same direction
- model tree: create new node, delete node, move node
- allow to save 3DViewStation application settings as profiles

#### Version 2014.1 build 7320 Importer Update:

- **Enhancements:**
- Autodesk Inventor file reader now supports the Inventor 2015 file format
- Solid Edge file reader now supports the ST7 file format
- Catia V5-6 file reader now supports the 2014 file format
- SolidWorks reader improved support for PMI
- NX reader improved support for PMI
- Creo reader now supports Parametric 3.0

#### Version 2014.1 build 7221 HotFix:

- **Enhancements / Fixes:**
- Draft angle: Save color
- File extension on save

#### Version 2014.1 build 7204 HotFix:

- **Enhancements / Fixes:**
- Open PDF files in use by other application
- Draft angle: Improved precision

#### Version 2014.1 build 7177 HotFix:

- **Enhancements / Fixes:**
- Printing page size fixed (GDI+)
- Accumulated length fixed

#### Version 2014.1 build 7151 HotFix:

- **Enhancements / Fixes:**
- User Interface Translation Update (English, Italian, Spanish, French, Chinese, Russian, Japanese, Korean)
- Tutorial Update 2014.1 (all user interface languages)
- Show Text Markup on print for 3DVS files from previous release
- Markup wrong text size and wrong position fixed

#### Version 2014.1 build 7106 HotFix:

- **Enhancements / Fixes:**
- Wrong printing page size
- Crash on 3DVS loading from previous release
- PMI text issue on import
- PDF export settings and rendering style

#### Version 2014.1 build 6997 HotFix:

- **Enhancements / Fixes:**
- Remove BREP on PDF Export
- Picking optimized
- Measure: Circle Center, active coordinate system
- Printing of very large Formats (4000 x 2000 mm, up to 600 dpi)
- Print Dialog
- PMI Reference Highlighting
- Crash on Import / Markup / Measurement
- PDF template added
- Importer HotFix

#### New in version 2014.1 build 6857:

- **Fileformats:**
- import of Catia 2D drawings (as is)
- import of Inventor BREP
- import and export of 3DVSXML
- export of 3D-PDF using templates

- export section curves as SVG
- **Features:**
- 30 days trial mode for evaluation (without license file)
- undo various operations
- print, 3D + 2D, incl. large format
- exact compare of assemblies (besides quick compare)
- highlight PMI associated feature
- explode parts into faces
- more methods to create coordinate systems, points and axis
- move point to point
- use 3DViewStation as standard PDF viewer, launch 2D-PDF app on demand
- default reading mode: "prefer geometry" instead of "prefer tessellation"
- last release supporting Windows XP

#### New in version 2014 build 6016:

- **Fileformats:**
- New importer: NX 9, 3DVSXML
- Import of layer information
- Export of modified data to i.e. STEP, 3D-PDF, JT, Parasolid, VRML, STL...
- Export of BREP
- **Features:**
- configure tablet usage
- complete left mouse button / finger control
- customize: accelerator keys
- customize: custom toolbar
- customize: mouse key: sensitivity
- customize: quick access toolbar
- analyze: optimized compare for parts
- modeltree: show annotation text, dimension tech-doc: draw associated lines
- new splash
- new icon

**New in v12.03 build 5657:**

- Fileformats / New and improved importer: SolidWorks 2014, SolidEdge ST6, Parasolid v26, STEP AP 242
- PMI support for JT export
- **Features:**
- draft angle analysis
- explode assembly automatically
- mirror object
- create coordinate system
- measure angle of face to direction (x/y/z)
- calculate projected area
- transformation: enter values, i.e. to move a part, to move the section pane, to rotate an object
- focus on selected part (zoom on it)
- selection via rectangle
- show grid

**New in build 4850:**

- New importer: CatiaV5R23, Inventor 2014
- **Analyze:**
- Section during compare (part and assembly)
- Measurement during section
- Create geometry from section: surface and wires
- Calculate section surface and section wire length
- Measurement: point snap with tolerance
- Measurement: select circle via 3 points
- Measurement: distance between point and edge
- Measurement: distance between point and solid
- Measurement: distance between edge and face
- Measurement: distance between edge and solid
- Measurement: distance between 2 faces
- Measurement: distance between face and solid
- **Views:**
- PMI views: support for PMI billboards
- PMI views: filter by PMI-types
- **Licensing:**
- New license manager also available for Linux 64bit
- License Manager update LM-X License Manager v4.4.9
- V12.02 Clients using a floating license needs update of License Manager on server first!

**New in build 4604:**

- **Analyze:**
- Compare (part and assembly)
- Activate coordinate systems
- Measurement: distance between axis and edge

- Measurement: show units, change units
- Measurement: length in JTs by generating wires
- Measurement: copy results onto clipboard
- **Cutting Plane:**
- Enable selection with cutting plane on
- Align Cutting plane to axes and coord. systems
- Cutting plane is saved into the views
- **Views:**
- PMI views: treat PMI views like std. 3DVS views
- **UI:**
- Multiple non tabbed windows alignment
- Scaled background color
- 9 languages support
- **Part properties:**
- Unit selection
- Density
- Mass
- Gravity center



## **KISTERS 3DViewStation Desktop V12.0 release (12.0.600.4262)**

The Kisters 3DViewStation V12 is an extremely high performance 3D viewer with modern Office 2010 compliant UI. We provide a 64-bit as well as a 32-bit product version.

### **New in version 12.0:**

- significant performance increase in 3DVS-loadtimes:  
5 GB Catia as 3DVS in 1s, 20.000 parts SolidEdge as 3DVS in 1s.
- significant performance increase in native CAD and standard fileformat reading mode
- new importers: NX 8.5, Rhino
- new exporter: JT, VRML
- section: define section plane by clicking on a face of an object
- improvements on filtering-function:  
added filtering by object-type, i.e by plane or wire  
filtering by color: allow to select multiple colors
- display boundingboxes of all objects in one step
- annotations and markups are now associated with geometries
- delete annotations via backspace key
- improved handles to move and rotate objects

With the current set of functions and features; 3DViewStation is the perfect tool for usage in sales, marketing, design reviews, change management, work preparation and technical documentation.

As V11 the KISTERS 3DViewStation V12.0 ships with a fresh Office 2010 compliant user interface and provides similar functionality, which can be leveraged by the user quite intuitively. The focus of the latest developments has been set to the graphics kernel. 3DViewStation V11 load times were already very short, but V12 load times are now unparalleled: in the meantime, we were almost unable to find assemblies, which load longer than 1 second, once translated into the internal 3DVS file format.

Examples are a 5 GB Catia V5 assembly, which loads in native-mode in 7 minutes on a notebook computer, but in only 1 second as 3DVS-file – fully detailed. Another example is a 20.000 parts SolidEdge assembly, which loads natively in only 35 seconds, but in 1 second as 3DVS-file too. With these recent developments KISTERS has created a solid foundation for many customer-driven future enhancements.

Other news are related to the file format support: with KISTERS 3DViewStation V12.0 we raised NX-import level to v8.5 and introduced Rhino import as well as exporters for JT and VRML. At the functional level section planes can now be defined not only by the active coordinate system but also by clicking on a face of an object. A new selection method has been added to the filtering tool: the user now can filter by object type too, i.e. by PMI, construction plane or wireframe object. Filtering by color now allows the selection of objects of several colors at the same time. We can now display all bounding boxes of all visible geometries at once and finally PMI's, annotations and markups are associative to geometries now.

Find more information regarding KISTERS 3DViewStation plus download at <http://viewer.kisters.de/3DViewStation>.

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**New in version 11.4:**

- new importers: Catia V5 R22, Catia V6 2013, Solidworks 2013, SolidEdge ST5
- new importer: 3D-PDF, for U3D and PRC, Tesselation and BREP
- volume calculation (BREP mode)
- surface calculation (BREP mode)
- multiple clicks on object select next higher assembly level in tree
- define multiple search paths incl. recursions
- define floating format precision
- define default render-mode
- improved handles to move and rotate objects

**New in version 11.3:**

- filter objects by name, color and attributes
- create BOM from 3D-model
- 3D-annotations
- 3D-markups
- Dimensioning
- sort views via drag & drop
- automatically play views
- read CAD-attributes during import
- copy bitmap of current view into the clipboard
- support for 3DConnexion 3D-mice
- updates of importers
- incl. new JT-importer

**New in version 11.2:**

- direct and fast translation of all fileformats into i.e. STEP, 3D-PDF, Parasolid, STL...
- Views management, incl. PreViews
- Neighborhood search
- wall thickness measurement
- Boundingbox measurement
  
- Support für Catia V5 R21
- Support für NX 8
- Support für SolidWorks 2012
- Support für SolidEdge ST4
- Support für IFC 2x4

The KISTERS 3DViewStation is developed very close to customer requirements, available as Desktop and ActiveX product-version, 32-bit and 64-bit, shipping with a modern and intuitive Office 2010 compliant user-interface. The ActiveX integration component is intended to be used together with a PLM- or other management system. All file formats can be used in combination with the intelligent navigation- and hyperlinking features to address needs of complex integration scenarios. There are seat and floating licenses available.

KISTERS is a worldwide growing IT-company which has been founded in 1963 as an engineering agency. Its 500 employees develop resource management systems for energy, water and air, and information systems for the area of environment protection and safety. Professional competence and operational experience with more than 3000 customers and more than 150.000 installed licenses make KISTERS an internationally sought-after partner for software solutions.

One core focus of the IT-solution department is the development and sales of visualization solutions for CAD-data and documents including ECM and PLM integrations. To satisfy the various market requirements KISTERS offers solutions of several best-in-class vendors as well as own developments. Customers appreciate 20+ year experience in this area.

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