Highlights of ZW3D2018 SP

ZW3D Support Team@Apr,2018





Highlights of ZW3D 2018 SP

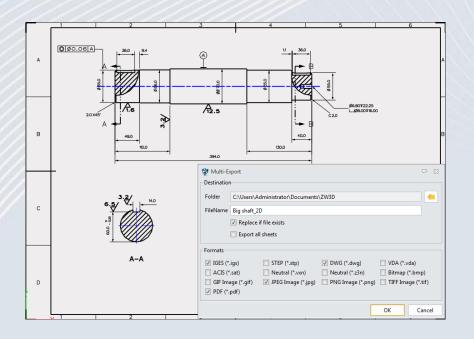
- Some New Features
 - ✓ Updated Translator
 - ✓ New Options for System Configuration and Equation Manager
 - √ Improvements in Sketch/Assembly/Drawing/KeyShot
 - ✓ Some CAM Improvements

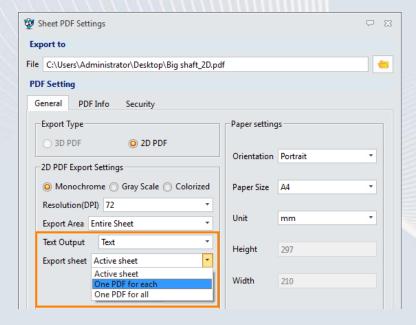
More than 270+ bug fixed

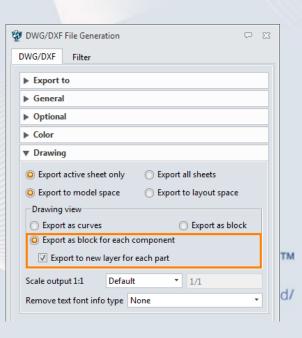


Updated Translator-2D Drawing Export

- Batch export drawing sheets by new "Multi-Export".
- New Text output and Multi-sheet export options are added in PDF export
- New "Export as block for each component" option in DWG export
- New "Exclude sheet format & table" option to remove text font setting for DWG export







Updated Translator

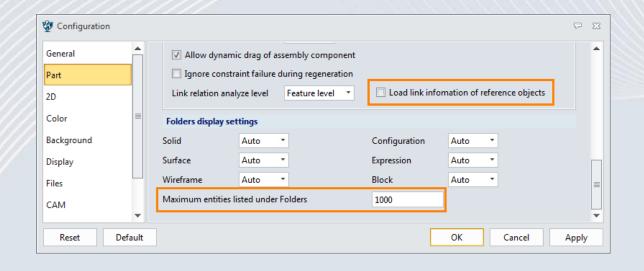
- Export OBJ format
- Import/export layer & object name of IGS/STEP file
- Imported graphic data (Such as *.3DXML file from Catia, *.cgr, *.xcgm) can be exported as STL file.

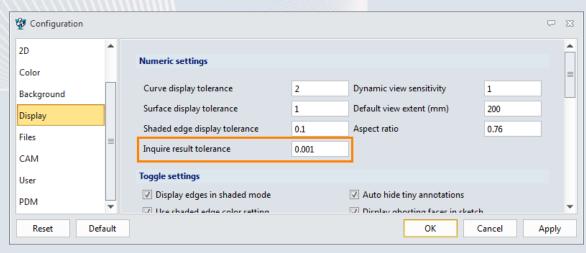
Import Format	Extension	Version		
Catia V4	.model, .exp, .session	4.1.9 – 4.2.4		
Catia V5/V6	.CATPart, .CATProduct, .CGR, .3DXML	V5R8V5/V6 R2017		
NX(UG)	.prt	11– NX 11		
Creo(Pro/E)	.prt, .prt*, .asm, .asm.*	16 – Creo 4.0		
SolidWorks	.sldprt, .sldasm	98– 2018 (Only 64)		
SolidEdge	.par, .asm, .psm	V18 – ST10		
Inventor	.ipt, .iam	Up to V2018		
ACIS	.sat, .sab, .asat, .asab	R1 – 2018 1.0		
DWG/DXF	.dwg	R11 - 2013		
STEP	.stp, .step	203, 214		
Parasolid	.x_t, .x_b, .xmt_txt, .xmt_bin	Up to 29.0		
3DXML	.3dxml	V4.3		
XCGM	.x cgm	R2012-2016 1.1		
JT	.jt	JT 8.x/9.x/ 10.0-10.2		



New Options for System Configuration

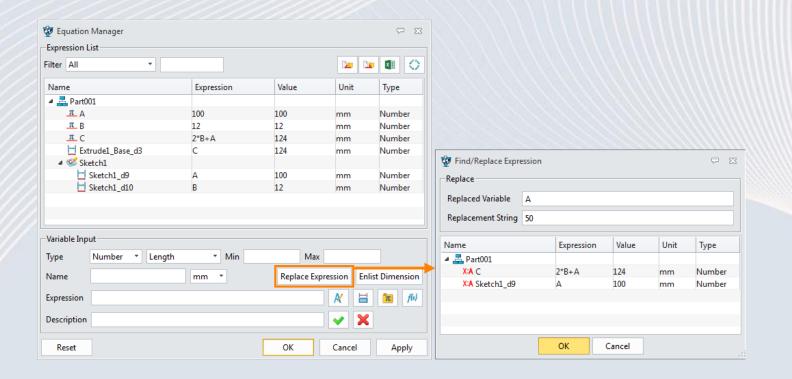
- New "Maximum entities listed under folder" option
- New "Load link info of reference objects" option
 - ✓ Link information will be automatically loaded when this option is checked.
 - ✓ File opening speed will slow down, especially for big assembly.
- · New "Inquire result tolerance" setting

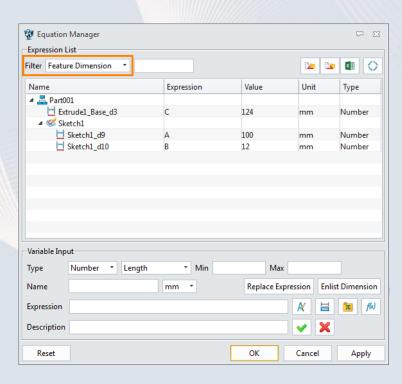




New Options for Equation Manager

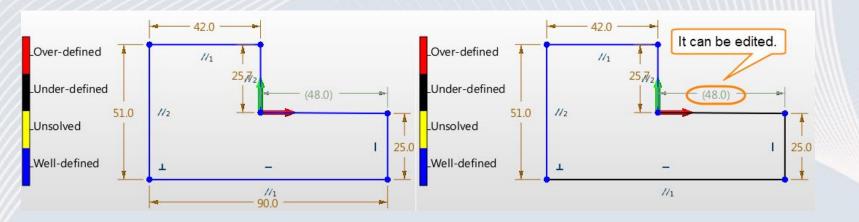
- **>>>**
- New "Replace Expression" Function
 - ✓ More convenient to replace the variable with a new string, such as other variable/constant.
- New filter type "Feature Dimension"

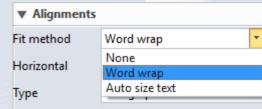




Improvements on Sketch

- Reference dimension can be edited directly when the sketch is not well-defined.
- Sketch symmetric constraint provides direction control.
- "Text" command provides new "Fit Method" option.



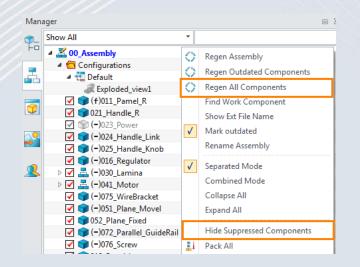


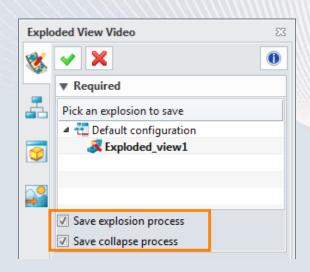




New Features of Assembly

- New options are added to the right menu of assembly tree
 - ✓ "Regen All Components" and "Hide Suppressed Components"
- Remove the "Position" node from assembly tree of Config Table
 - ✓ Components position is stored in assembly config as default
- "Assembly Hole" auto select intersected components as the target objects
- "Exploded View Video" provides options to save explosion or collapse process or both.

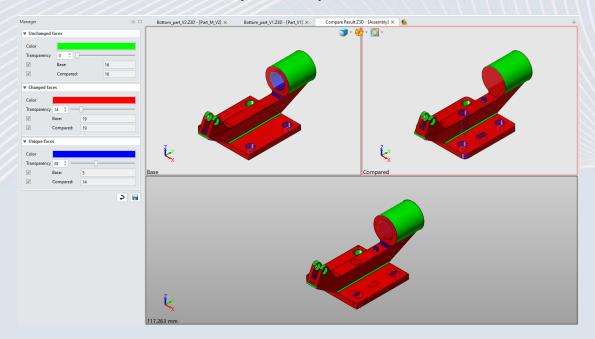






Upgraded Compare Part

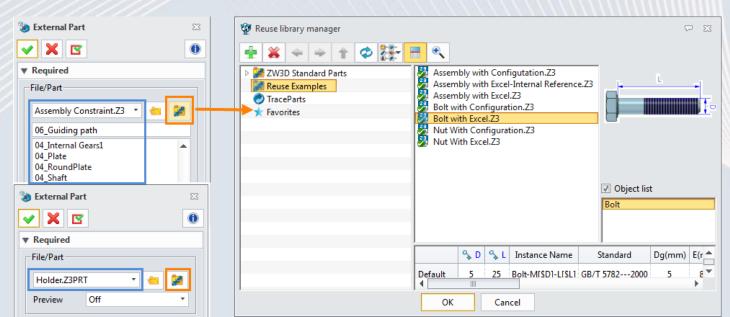
- Direct select the part from external Z3D files (No need opened first)
- Multiple windows show the base part, compared part and the combined result.
- Define the color and transparence
- Generate the compare report

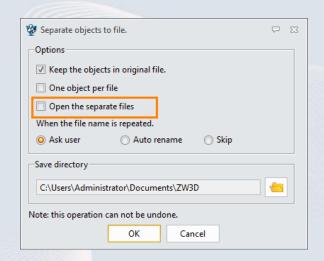


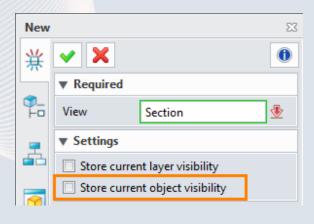
Compare Report								
				Report date: 0 Reporter: Adm):52:55		
Summary								
	Base	Compared						
Name	Part_V1	Part_M_V2						
Path	.\.Session\Bottom_part_V1.Z3D	.\.Session\Bottom_part_V2.Z3D						
Last Modified	7/28/2017 10:52:41 AM	7/28/2017 10:52:34 AM						
Create Time	5/13/2016 5:36:33 PM	5/13/2016 5:36:33 PM						
Properties								
	Base	Compared						
Material	Iron-wrought	Aluminum-cast						
Density	7.64e-006(kg/mm^3)	2.64e-006(kg/mm^3)						
Mass	0.30(kg)	0.12(kg)						
Area	16100.14(mm^2)	15295.03(mm^2)						
Centroid	X: 505.17;Y: -209.22;Z: -20.23(mm)	X: 505.14;Y: -204.40;Z: -17.55(mm)						
Faces Comparison								
	Base	Compared						
Unchanged Faces	16	16						
Changed Faces	19	19						
Unique Faces	5	14						
View			Color Codes	Unchanged	Changed	Unique		

Other Improvements on Modeling

- Hidden sketch feature and hidden component can be pre-highlighted
- "External Part" can directly call Reuse Library
- Auto hide the object list when reading object from Single-object-per-file
- New option on "Separate" to control whether separated filed open or not
- Object visibility can be stored in a custom view.

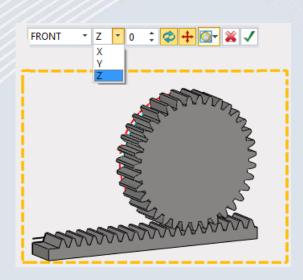


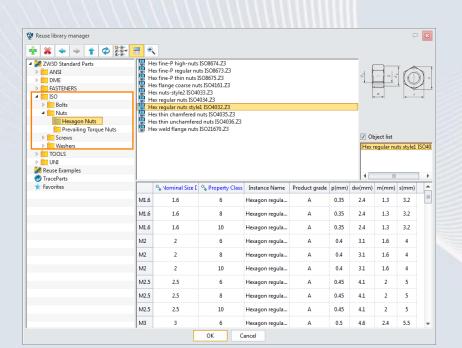


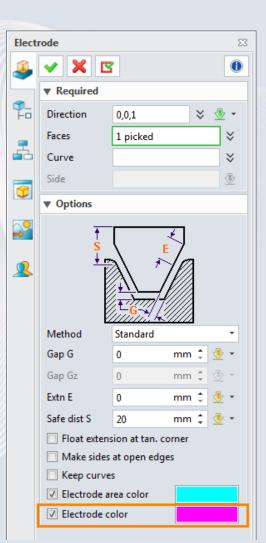


Other Improvements on Modeling

- A base view can be rotated along with XYZ axes by "Rotate View"
- "Format Printer" supports symbols, such as surface finish and weldment symbol
- Electrode colour can be set on "Electrode" form
- Added fastener lib for built-in Library (ISO, GB)
- 250+ bugs fixed

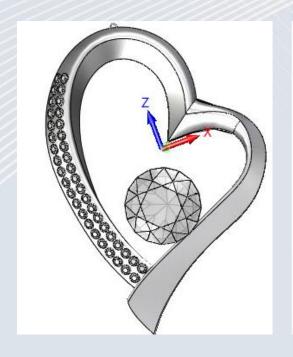






KeyShot

- ZW3D 2018 SP supports the latest version of KeyShot.
- Only Keyshot 764 bit is supported, since keyshot 7 only provides 64 bit version.
- Click KeyShot icon in ZW3D to update the model from ZW3D to KeyShot.

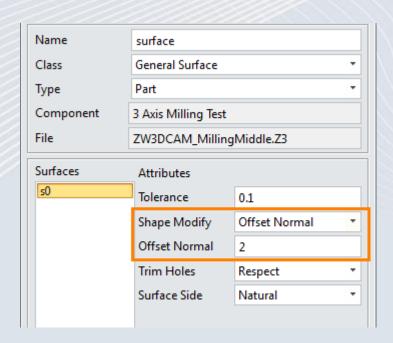






CAM Improvements

- Surface feature for QM operation supports Offset normal
 - ✓ Specify different thickness to different surface in the same part
 - ✓ Protect some sharp edges from being damaged

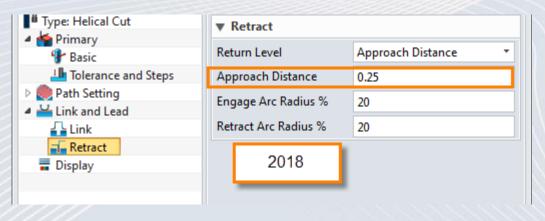


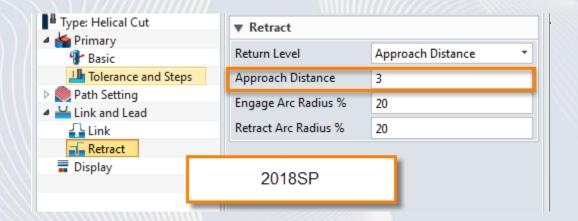


CAM Improvements

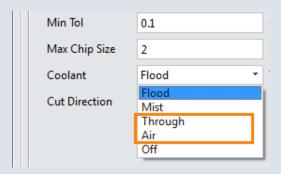
Change default helical cut's approach distance to a reasonable value:

>>>





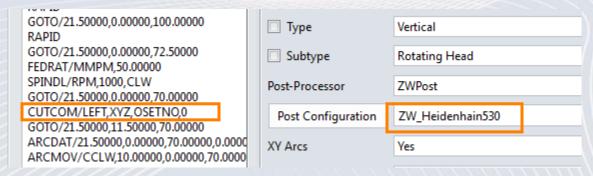
Add two new coolant types: "Air" and "Through"





CAM Improvements

Heidenhain 3X post processor supports tool radius compensation function



Output "Total Time" in CL data

\$\$ CAM-ID: ZW3D V15.1
PARTNO / 'Helical Cut 1'
MACHIN/ZWPost,FanucBasic
PPRINT / 'Programmed by win7'
PPRINT / 'Total Time - 0 HOURS:6 MINUTES:36 SECONDS'
TIMARK/1
SEQNO/0,INCR,1
FROM/0.00000,0.00000,500.00000
\$\$ End startup sequence.

TM