ZWCAD 2017 SP3.1

Product Release Note

ZWCAD PRODUCT TEAM

Thank you for downloading ZWCAD 2017 SP3.1

May 2017
Dear Customer:
We are proud to introduce ZWCAD 2017 SP3.1, the latest release of our ZWCAD product
solution. SP3.1 is a release with stability and efficiency improvement, we also believe the
improvement of functionality and APIs will help you become more productive.

This release delivers stability and efficiency testing, enhancements, fixed and limitations in
ZWCAD 2017 SP3.1.

Sincerely,
Your ZWCAD Team

Contents

ZWCAD 2017 SP3.1 Release Note

Stability & Efficiency

The following section describes the stability and efficiency testing in this release.

Stability Monitoring

Stability monitoring is one of the most important parts in product release, and throughout the automatic testing it is shown that SP3.1 becomes more and more stable compared in vertically and horizontally.

Vertical comparison:

We selected 1097 sample files to test the open and save operations, and there are 1090 passes.

Open/Save Errors in 1097 drawings

Error Numbers — ZWCAD 2017 Versions
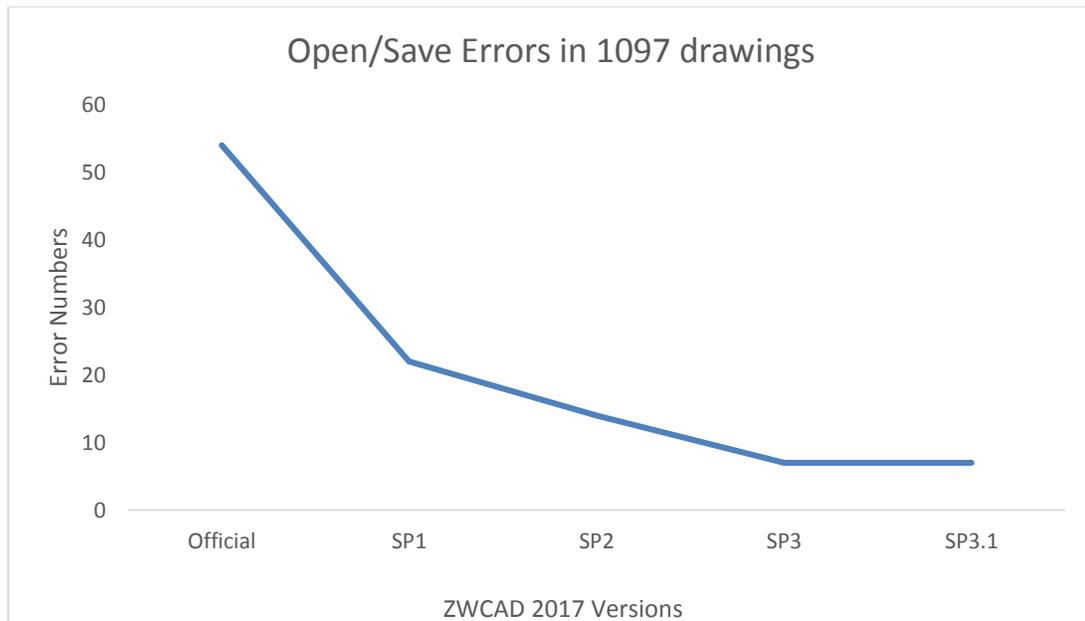
Horizontal comparison:

We selected 54 sample files which open and save slowly or take up much more memory in the automatic testing. And then compared the open and save results with ZWCAD+ 2015.

The result shows that SP3.1 can open and save them without errors, as the following picture shown:

ZWCAD 2017 SP3.1   ZWCAD+ 2015

Save all correctly

Open all correctly

Errors

Save correctly

Open correctly
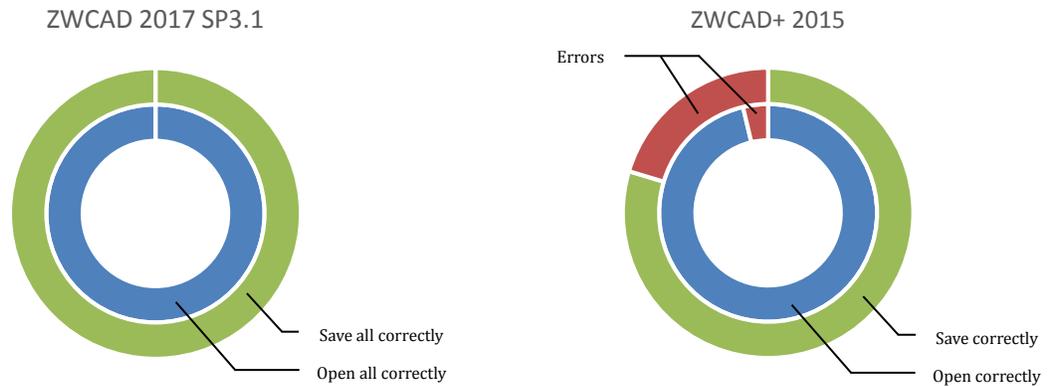
Improve Stability

Besides the above automatic testing for stability, we also try to improve ZWCAD stability by fixing special cases coming from our local market feedbacks and crash reports. SP3.1 resolved 330+ crash report feedback from end users and the following crash issues are fixed in this release:

- Activation dialog pop-up while trial user start ZWCAD
- Exit program while load lisp program then register lisp reactor
- Exit program after operation likes plotting, publishing and etc.
- Double-click to edit hatch
- Undo/Redo preview
- Export from mechanical library

Efficiency monitoring

A new kernel has been developed to bring a better performance for ZWCAD 2017, which makes the efficiency for most frequently used operations, such as move, copy, rotate been greatly improved. The new 64bit version brings the ability to deal with some really big drawings.

Horizontal comparison:

Operations:	Frequently used commands such as move, copy, etc.	
Samples	:	24 drawings
Sizes	:	From 1M to 30M

Efficiency Compare in Each SP

Objects created efficiency improved while other efficiency keep good
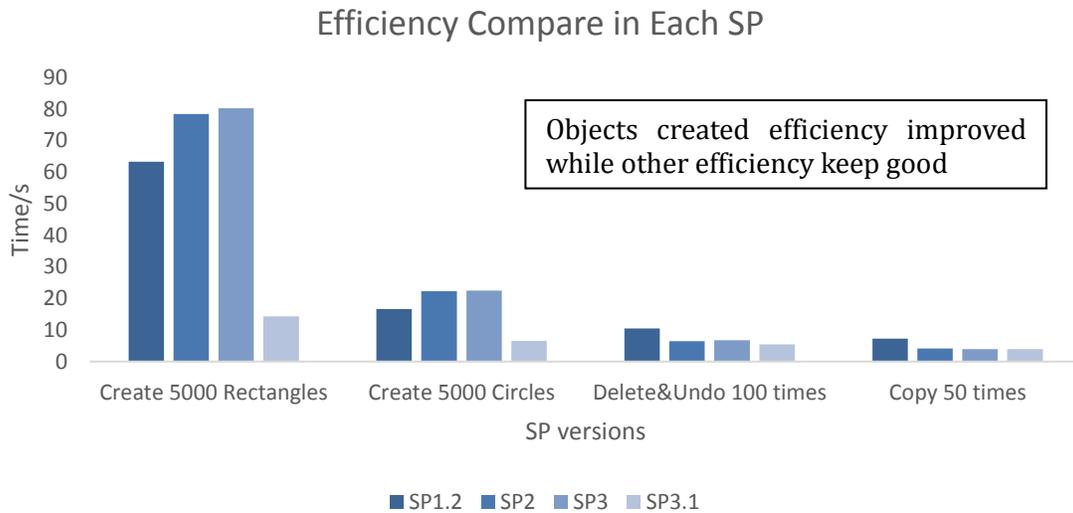
Horizontal comparison:

Operations:	Frequently used commands such as move, copy, etc.	
Samples	:	24 drawings
Sizes	:	From 1M to 30M+

Efficiency Compare with AutoCAD 2013

The following operations has better performances in ZWCAD 2017 SP3.1

Time/s

Oprations

■ ZWCAD 2017 SP3.1 ■ AutoCAD 2013
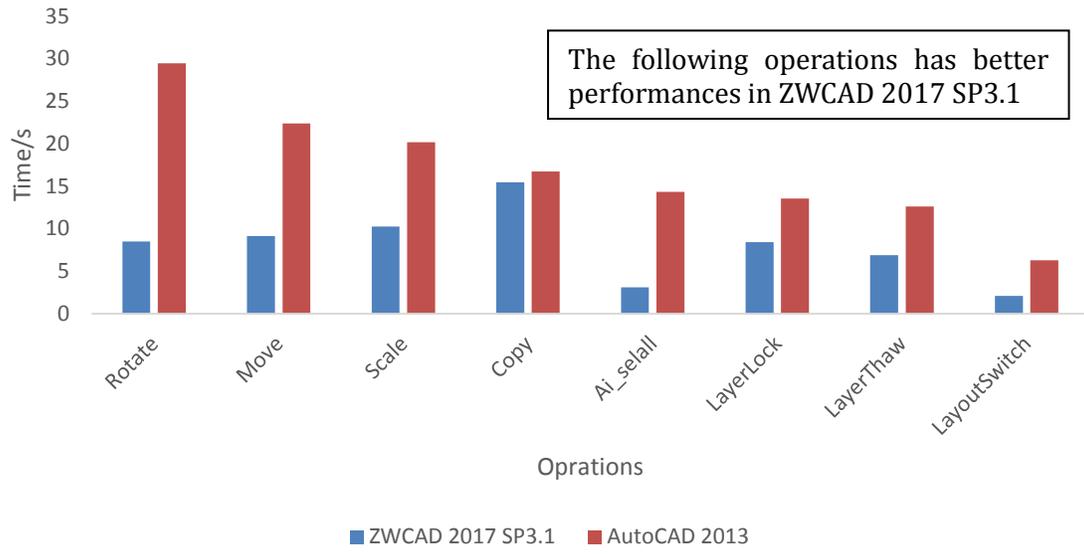
New Features

There is no new command added in this release.

New Commands

-IMAGE: Execute IMAGE by command line way to create raster image.

New System Variables

There is no new system variable added in this release.

Improvements

The following section describes the improvements in this release.

More Information Collected in Crash Report

In order to locate the reason of those crashes without crash report generation, when user start ZWCAD, program will check whether the previous closure is normal or not. If that is a closure caused by errors without crash report generation, the following message box will pop-up to ask user to send diagnostic information to us for further analysis:
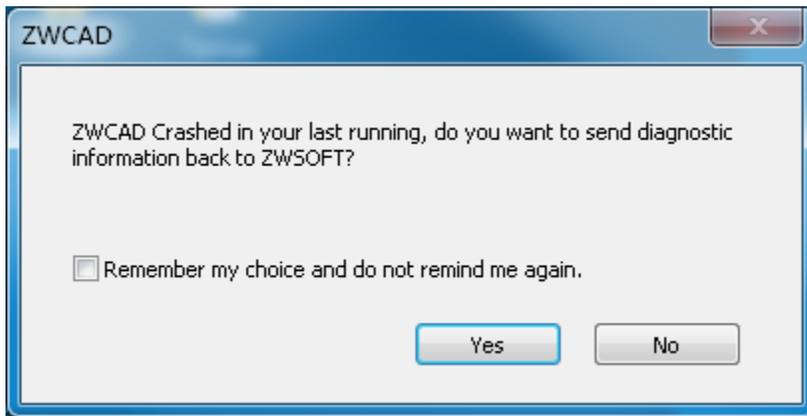
API Improvements

SP3.1 fixed 54 API bugs:

ZWCAD 2017 SP3.1 Fixed API Bugs
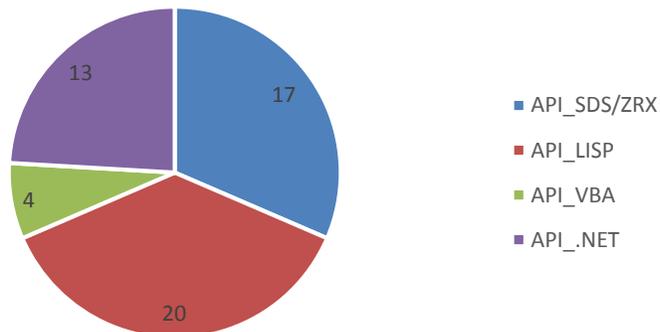
New and fixes functions in LISP:

No.	Function name	Modify
1	Setq	Fix
2	Entmake	Fix
3	Command	Fix
4	Foreach	Fix
5	Vla-item	Fix
6	Getfield	Fix
7	Vlax-invoke	Fix
8	Vla-setblocktablerecordid	Fix
9	Vlax-curve-getdistatparam	Fix

New and fixes functions in VBA:

No.	Method/Property name	Modify
1	RegisteredApplications	Add
2	SetBlockAttributeValue32	Fix
3	setXdata	Fix

New and fixes functions in ZRX:

No.	Function name	Modify
1	acplPublishExecute	Fix
2	acdbEntMake	Fix
3	kUnloadAppMsg	Fix
4	AcDbIdMappingIter::getMap	Fix
5	acrxDynamicLinker::lockApplication(pkt)	Fix
6	zcedSSGet	Fix
7	AcEdInputPointMonitor::monitorInputPoint	Fix
8	zwSetMainFrameCaptionTitle	Fix
9	ads_nentselp:ads_nentselp	Fix
10	zds_queueexpr	Fix
11	try-catch	Fix
12	setCurDocument	Fix

New and fixes functions in .NET:

No.	Class/Method name	Modify
1	TransientDrawingMode	Add
2	AddTransient	Add
3	EraseTransients	Add
4	CurrentTransientManager	Add
5	HostApplicationServices. releaseMarketVersion	Add
6	UserRegistryProductRootKey	Add
7	MdiActiveDocument	Fix
8	PromptSelectionOptions	Fix
9	FromColor(System.Windows.Media.Color)	Fix

Bug Fixes

There are 184 bug fixes in ZWCAD 2017 SP3.1. The following list contains parts of bug ID and corresponding descriptions for issues fixed in this release.

Bug ID	Description
Plot	
T13293	Plot: plotting size is incorrect with physical printer
T13447	plot\dwf\hatch: Hatch disappear after plotting to dwf file
Open and Save	
T13456	dxf:layer information is not correct after openning attached DXF file
T13250	dxf:the attached file is displaned incorrectly
User Interface	
T13520	Stability\mns: Crash occurs while reading specific mns file
T13187	Display: Dialog display incompletely in XP system
Design	
T13626	circle:Circle with 3P option error
T13596	Stability\explode: Crash occurs while explode specific objects in 4 times
T13163\T13164	Solidedit: cannot use solidedit to modify face
4194\4189	Revolve: cannot revolve closed line or unclosed entity
API	
T13696	DotNet\lisp\VBA: Efficiency low while creating entities continuously by 3rd party program
T13317	Error occurs while processing specific drawing with acplPublishExecute
T13566	ZRX: fail to use unloadModule to unload another zrx in kUnloadAppmsg event
T13357	Zrx: process remain while using acrxDynamicLinker -> lockApplication(pkt)

Limitation and notes

The following section describes limitations and workarounds (where applicable) about this release.

Bug ID	Description
-	-
-	-
-	-
-	-
-	-
-	-
-	-