JTB WORLD LICENSE MANAGER

Date: 2019-12-07

Created by JTB World Inc.

CONTENTS

GENERAL2
QUICK TOUR
Define License MY *.dll
Define Apps5
JTB License System Super Test (or Super Test app in short)6
Generate And Compile Plugin Apps7
Network License Server12
DETAIL DESCRIPTION17
The License MY [YourCompany].dll17
License V4.dll17
PASSWORDS (defined in license my [yourcompany].dll
License for Apps.exe
For your AutoCAD and BricsCAD plugin apps18
Your Apps19
AutoCAD - How To Set Up Your Plugins Installation
Shared Folder for your autocad plugins20
ISSUES
BricsCAD - How To Set Up Your Plugins Installation
In House Apps For Developer To Manage The Licensing System

GENERAL

Here are the assemblies of the JTB World License Manager:

1. JTB World License apps:

License V4.dll and License Server, License Server Dashboard License For Apps.exe: this is for VBA and other non .NET apps to use License V4.dll License 4 AutoLisp 2013.dll, License 4 BricsCAD.dll: these are for CAD Plugin Lisp apps.

2. Your company's apps: developer by your company. They are clients of JTB World License apps.

3. License MY [yourcompany].dll app

Written in .NET, the source code is open for you. This assembly gives JTB World License apps the customization settings of your company.

Include in this assembly your logo, your company name, your support email, your passwords. Also, your KeyGen code as well if you don't want to use the default one provided by JTB World.

4. Passwords

These are not apps, but secret keys to keep as confidential. Because to run a main function in JTB World License apps, you must provide it the right password. Some passwords are defined by JTB World. Most passwords are defined by developer yourself, compiled in the License MY [yourcompany].dll.

5. JTB World License Manager apps

Including Excel macro-enabled spreadsheets, and a Super Test app for you to "play" with JTB World License apps before creating any app of your own. These apps are for in-house use purpose, within your company only.

6. AutoCAD and BricsCAD plugin loader apps

Help you to set up the loading of your CAD plugins properly.

One important issue here is, unlike a stand-alone app, when you make a plugin app for AutoCAD or BricsCAD, the app can be working with other plugin apps from other developers, including JTB World plugin apps.

Therefore:

+ beside License MY [yourcompany].dll, there will be another License MY [othercompany].dll running.

+ there is only one License V4.dll can be loaded to AutoCAD. It might not the License V4.dll in your app's folder.

JTB World License apps are designed to solve this issue. Following JTB World instruction to set up your app is recommended to make it works in all scenarios.

QUICK TOUR

+ Start from the apps folder:

Â	Name	Status	Date modified
	📙 Outbox		11/30/2019 7:08 AM
	Starter for App	9 A	11/30/2019 7:10 AM
1	Starter for License MY	8	11/30/2019 7:10 AM
	🗱 JTB License MY Generator.exe	9 A	11/30/2019 7:03 AM
	🗱 JTB License System Super Test For Dev.exe	8	11/30/2019 8:00 AM
1	📙 JTB World License Server Dashboard.exe	9 A	11/29/2019 6:48 AM
	📧 License for Apps.exe	🙁 ର	11/29/2019 6:48 AM
	📙 License Server.exe	8	11/29/2019 6:48 AM
	📧 LicenseFileGenerator.exe	8	11/30/2019 8:35 AM
	Starter for BricsCAD V4.exe	8	11/29/2019 8:37 AM
1	🗟 Def License MY.dll	2 A	11/30/2019 7:03 AM
	🗟 EPPlus.dll	2 A	4/21/2018 2:22 PM
	📓 License 4 AutoLisp 2012.dll	9 A	11/29/2019 9:22 AM
r	🗟 License 4 AutoLisp 2013.dll	9 A	11/29/2019 9:22 AM
r	🗟 License 4 BricsCAD.dll	8	11/29/2019 9:22 AM
.	🗟 License V4.dll	8	11/30/2019 7:03 AM
	🗟 Newtonsoft.Json.dll	8	11/28/2017 3:48 PM
	🗟 Starter 2012.dll	9 A	11/29/2019 6:46 AM
r	🗟 Starter 2013.dll	9 A	11/29/2019 6:46 AM
	🗟 Toolbox 1.dll	9 A	11/29/2019 9:22 AM
	🥁 License V4.dll.config	9 A	7/4/2019 10:56 PM
	📓 License MY Alpha.ini	9 A	11/30/2019 6:10 AM
	📓 License MY Beta.ini	9 A	11/30/2019 6:10 AM
	🔊 License MY Gamma.ini	9 A	11/30/2019 6:10 AM
1	🗷 License Manager.xlam	🙆 ମ	11/30/2019 8:56 AM
	💀 JTB License Manager.xlsm	8 8	11/30/2019 8:56 AM

DEFINE LICENSE MY *.DLL

+ Your custom info is stored in License MY [yourcompanyname].dll.

+ The target is to have a custom activation window, like this:

Alpha Inc. App License Activation X	Alpha Inc. App License Activation X
App Test MaxHinToUse Version 1.0.0 Status NoNetwork License received Trial - 29 days left	App Test MaxHisToUse Version 1.0.0 Status Notwork License received Trial - 29 days left
Single License Network License	Single License Network License
This is an alternative trial message After purchase is done or to request an extended trial, click here to email the Computer Number to clicita tics, or copy it from below and email it to Computer Number to clicita tics, or copy it from below and email the Computer Number Not Activation for with the emails back within 24	Server name or IP address Pot Number DELL15 100 25 Note: Changing Server Name and Pot Number will return all your active locenses. Then, Alpha Inc. apps will request new locenses from the new server. No locense. Server does not respond.
Your computer number TE42902 Copy To Cipboard	
Enter or paste the Activation Key here	
	Please contact <u>Alpha Inc</u> , at <u>info@alpha.com</u> for more information to purchase a network license.
4.0.0.0 Activate Close	4.0.0.0 Send Request Close

+ Run JTB License MY Generator.exe

+ In JTB License MY Generator window, click open and select the predefined License MY Alpha.ini, or License MY Gamma.ini

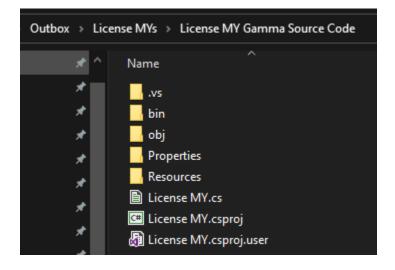
+ It will show up like this:

🜞 JTB License MY.dll For D	evelopers - Code Ge	nerator						×
General				Others				
Frank You	ur Name: License MY	Gamma .dll		Company Detail Wildcard (to detect company's plugin via the	*gamma*]
You	ur Company Name	Gamma Inc.		PackageContents)				
You You	ur Contact Email	Company Detail Wildcard to detect company's plugin via the PackageContents) "gamma" it company Detail Wildcard to detect company's plugin via the PackageContents) "gamma" CAD: Activate Apps Command Name GAMMA_ACTIVATE_APPS Port Number Prefix 500 tings file will be automatically saved to the app's folder Port Number Max Range 30 nen They Are Sent Outside From License MY.dll Dashboard PortNumber Min Range 50 ma_const_Licensed LicenseServer Shared Folder Name 60 mma_const_Licensed_ForLisp UcenseServer Shared Folder Name GAMMA License Server TWARE/GAMMA ComputerID, LicenseConfig(), KeyGen() are functions. Their retum values are according to the PC they installed.]				
Click To Select Your Logo				Port Number Prefix	500			
Not	te: Settings file will be a	automatically saved to the app's folder		Port Number Max Range	30			
				Dashboard PortNumber Min Range	50			
constPassword	Gamma_constPassv	vord		Dashboard PortNumber Max Range	60			
constLicensed	Gamma_const_Licer	nsed						
constPassword for Lisp	Gamma_constPassv	vord_ForLisp			GAMMA License Server]
constLicensed for Lisp	Gamma_const_Licer	nsed_ForLisp						
Secret Registry Path To Save License Info	SOFTWARE\GAMN	1A		ComputerID, LicenseConfig(), KeyGen	() are functions. Their return values	are accord	ding to the	
Registry Group	R53211			Write your own code to customize then	n. Otherwise, leave them return noth	iings to use	e the	
			Generate	e New	Open	Cle	ose	

+ Click [Generate] and License MY Gamma.dll will be compiled, including the source code. You can change it, add your own KeyGen code, etc. Finally, recompile it.

+ compile License MY Alpha, Beta.dll as well.

+ Back to the apps folder, open Outbox, you can see the source code is generated for you to add further customization:



DEFINE APPS

+ Open JTB License Manager.xlsm

C2			• : ×	√ fx	=K6 & "\" & I6	
	А	В	с		D	
1 2 3		License For Apps.exe file path: License MY*.dll file path: const_Password	.\Outbox\License MYs\Lice	nse MY Alp	oha Source Code\Bin\Debug\License MY	Alpha.dll
			App Alias (a shorter name, for easy to type in. Usage: within this Excel	App ID ke	ey (unique key for each app, to generate	Computer Ide You can choos
4	Ţ	App Full Name 🔍	book only)	, license)		🚽 name, or the 🛛
5	1	Test MinHrsToRelease	TESTMINHRS	TESTMIN	HRS	Drive C Serial
6	2	Test MaxHrsToUse	TESTMAXHRS	TESTMAX	HRS	Drive C Serial
7	3	App Full Name 1	APP1	APP1		Computer Nan
8	4	App Full Name 2	APP2	APP2		Computer Nar
9	5	App Full Name 3	APP3	APP3		Computer Nar
10	6	App Full Name 4	APP4	APP4		Computer Nan
11	7	App Full Name 5	APP5	APP5		Drive C Serial I
12	8	App Full Name 6	APP6	APP6		Drive C Serial
13	9	App Full Name 7	APP7	APP7		Drive C Serial
14	10					

+ In sheet "Apps", there are already 9 sample apps definitions for you to test

+ License MY Alpha.dll path is specified in cell C2

+ const_Password is in cell C₃. This is License Manager app, used by developer only. Therefore, the password can be exposed out.

+ License For Apps.exe file path is specified by cell C1. Normally, it should be in the current folder, and the cell can be empty.

+ Save

JTB LICENSE SYSTEM SUPER TEST (OR SUPER TEST APP IN SHORT)

+ Back to the apps folder again, run JTB License System Super Test For Dev.exe

+ It parses the License MY *.ini files, parses the Outbox folder to get License MY *.dll, parse the JTB World Manager.xlsm workbook to get the apps. Finally, it brings up following window:

🌞 JTB License System - Super Te	est For Developers						- 🗆 ×
Select to switch to License MY file	found in [Current Folder]\License I	MY					
License MY Filename	const_Password foun	const_Licensed	Registry		Port Number	Port Max	
License MY Alpha.dll	Alpha constPassword	Alpha constLicensed	SOFTWARE\CLIE	NTS\55JK23	100	25	
License MY Beta.dll	Beta_constPassword	Beta constLicensed	SOFTWARE\CLIE	NTS\2A903	500	30	
License MY Gamma.dll	Gamma_constPassw	Gamma_const_Licen	SOFTWARE\GAM	IMA\R53211	500	30	
							Open Location
							Copy Info to paste to License Manger.xlsm
							Setup License Server Folder For All
Select Apps To Run Commands - A	All Trial Limits are set to 7 to test						
Application	Status		AppCode				Open Selected
Test MinHrsToRelease	Trial License.		TESTMINHRS				App's Activation Window
Test MaxHrsToUse	Trial License.		TESTMAXHRS				window
App Full Name 1	Trial License.		APP1				Run Query for
App Full Name 2	Trial License.		APP2				License on selected Apps
App Full Name 3	Trial License.		APP3				Apps
App Full Name 4	Trial License.		APP4				Set Purchase
App Full Name 5	Trial License.		APP5				Licenses
App Full Name 6	Trial License.		APP6				
App Full Name 7	Trial License.		APP7				
							Generate And Compile Plugin Apps
							Open Activate Apps Window
Test License For Apps >>> Set	t Network License Server		PortNumbe	er 55	Licens	e For Apps.exe >>	>> Set Purchase Licenses
Network license info will be written t when testing functions.	to and read from the License MY*.c	dll.config file, locate in the same	folder of the License MY*	dll. Check the file	Open Ou	utbox	Close

+ Select License MY Alpha.dll in the top list, select an app in the below list, the click [Open Selected App's Activation Window]

- + Activation Window will bring up (image below)
- + Close it, select License MY Beta.dll, click [Open Activate Apps Window]
- + All Apps Activate Apps Window will bring up. Image below:

Ipha Inc. App License Activation	×	Beta LTE Apps			
App Test MinHrsToRelease Version 1.0.0 Status Trial - 7 days left		Beta LTE info@beta.com			
Single License Network License		Application	Version	License Status	License Type
This is an alternative trial message		App Full Name 1	1.0.0	Trial license. 7 day(s) left.	Single
		App Full Name 2	1.0.0	Trial license. 7 day(s) left.	Single
		App Full Name 3	1.0.0	Trial license. 7 day(s) left.	Single
After purchase is done or to request an extended trial, click here t Computer Number to Alpha Inc. or copy it from below and email it	to	App Full Name 4	1.0.0	Trial license. 7 day(s) left.	Single
info@alpha.com. Normally the Activation Key will be emailed back hours.	k within 24	App Full Name 5	1.0.0	Trial license. 7 day(s) left.	Single
Your computer number		App Full Name 6	1.0.0	Trial license. 7 day(s) left.	Single
1E429D2	Copy To Clipboard	App Full Name 7	1.0.0	Trial license. 7 day(s) left.	Single
		Test MaxHrsToUse	1.0.0	Trial license. 7 day(s) left.	Single
		Test MinHrsToRelease	1.0.0	Trial license. 7 day(s) left.	Single
Enter or paste the Activation Key here					
4.0.0.0 Activate	Close			Open Folder Act	ivate Close

+ To get the Activation Key, open JTB License Manager.xlsm. Details will be document in later section.

+ Select some app, then click [Set As Purchased License] to test the function. You can see the trial license's time will be switched to 30 days, and the Status change:

Application	Status	AppCode
Test MinHrsToRelease	Purchased. Waiting for Activation Key.	TESTMINHRS
Test MaxHrsToUse	Purchased. Waiting for Activation Key.	TESTMAXHRS
App Full Name 1	Trial License.	APP1
App Full Name 2	Trial License.	APP2
App Full Name 3	Trial License.	APP3
App Full Name 4	Trial License.	APP4
App Full Name 5	Trial License.	APP5
App Full Name 6	Trial License.	APP6
App Full Name 7	Trial License.	APP7

Purchased license mode is written to the registry. When a customer buys an app, once purchase is done, they should have the link of a purchased license app installer. Then, the customer will get a new 30 days trial, unlimited function app until he/she has time to officially activate the app via its activation window.

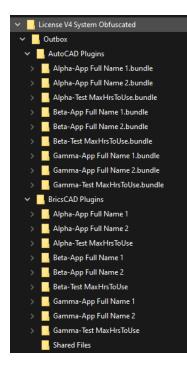
GENERATE AND COMPILE PLUGIN APPS

+ Back to the Super Test window, select some apps, then click [Generate And Compile Plugin Apps]

+ It is assumed that your selected apps are for CAD, AutoCAD and/or BricsCAD. The [Generate And Compile Plugin Apps] will create these for you:

enerate And Compile Plugin Apps		- 0
Logs	Status	Build SUCCESS
icense MY AlphaTest MaxHrsToUse	Build SUCCESS	Build SUCCESS
icense MY AlphaApp Full Name 1	Build SUCCESS	
icense MY Alpha App Full Name 2	Build SUCCESS	
icense MY BetaTest MaxHrsToUse	Build SUCCESS	T:\License V4 System Obfuscated\Outbox\Source Code for Plugins\Alpha-Test MaxHrsToUse\Appname.vbproj
icense MY BetaApp Full Name 1	Build SUCCESS	for Flugins\Alpha-lest MaxHrsloUse\Appname.vbproj
icense MY BetaApp Full Name 2	Build SUCCESS	Release Build OK
icense MY Gamma Test MaxHrsToUse	Build SUCCESS	Build started 12/1/2019 5:41:37 AM.
License MY GammaApp Full Name 1	Build SUCCESS	
License MY GammaApp Full Name 2	Build SUCCESS	Project "T:\License V4 System Obfuscated\Outbox
		\Source Code for Plugins\Alpha-Test MaxHrsToUse
		\Appname.vbproj" (default targets):
		Target ResolveAssemblyReferences:
		C:\WINDOWS\Microsoft.NET
		<pre>\Framework64\v4.0.30319\Microsoft.Common.targets (1605,5): warning MSB3270: There was a mismatch</pre>
		between the processor architecture of the project
		being built "MSIL" and the processor architecture
		of the reference "accoremgd", "AMD64". This
		mismatch may cause runtime failures. Please
		consider changing the targeted processor
		architecture of your project through the
		Configuration Manager so as to align the processor
		architectures between your project and references,
		or take a dependency on references with a
		processor architecture that matches the targeted
		processor architecture of your project.
		(i===
		Close

+ Open Outbox folder and you will see in this folder:

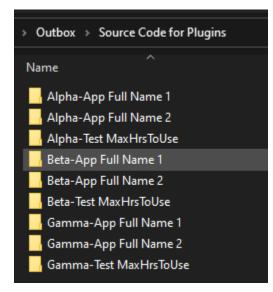


+ Quite a lot of apps. For BricsCAD, simply move or copy the BricsCAD Plugins to some location, rename it as you like.

+ Open the folder\Shared Files subfolder and run Starter for BricsCAD V4.exe. Press "I" as install.

+ it will add the loader code to all on_doc_load.lsp of all BricsCAD versions found in your PC

+ it creates series of sample Test*NET and Test*LSP commands. VB.NET and Lisp Source code are available in Outbox folder.



+ Open BricsCAD, you can see apps are loaded. Run Alpha_Activate_Apps etc. and you can see this window again, but this is within BricsCAD:

Ebs:CAD Prompt History teta-App Full Name 1-LISP Ver 1.0.0 Beta LTE teta-App Full Name 2-LISP Ver 1.0.0 Beta LTE teta-App Full Name 2-LISP Ver 1.0.0 Beta LTE titteenee V4 System Obfuscated/Outbox/BricsCAD Plugins/ teta-App Full Name 2-LISP Ver 1.0.0 Beta LTE titteenee V4 System Obfuscated/Outbox/BricsCAD Plugins/ teta-App Full Name 1-LISP Ver 1.0.0 Beta LTE titteenee V4 System Obfuscated/Outbox/BricsCAD Plugins/ teta-App Full Name 2-LISP Ver 1.0.0 Beta LTE titteenee V4 System Obfuscated/Outbox/BricsCAD Plugins/ Apha-App Full Name 1 - LISP Ver 1.0.0 Gamma Inc. titteenee V4 System Obfuscated/Outbox/BricsCAD Plugins/ Apha-App Full Name 1 - LISP Ver 1.0.0 Gamma Inc. titteenee V4 System Obfuscated/Outbox/BricsCAD Plugins/ Apha-App Full Name 2 - LISP Ver 1.0.0 Gamma Inc. titteenee V4 System Obfuscated/Outbox/BricsCAD Plugins/ Apha-App Full Name 2 - LISP Ver 1.0.0 Gamma Inc. titteenee V4 System Obfuscated/Outbox/BricsCAD Plugins/ Apha-App Full Name 2 - LISP Ver 1.0.0 Gamma Inc. titteenee V4 System Obfuscated/Outbox/BricsCAD Plugins/ Sitta_ACTIVATE_APPS ancel					_		
ete-App Full Name 1-LISP Ver 1.0.0 Beta LTE			9 ☺ ☜ 🖨 Г	10			
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://license V4 System Obfuscated/Outbox/BricsCAD Plugins/Beta-App Full Name 2 	Beta-App Full Name 1-LISP Ver 1.0.0 Beta LTE						
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Application Version Ucense Status License Type Apha-App FullName 1 1000 Trial license. 15 day(s) left Single Alpha-App FullName 1.USP 100 Trial license. 30 day(s) left Single Alpha-App FullName 2.USP 100 Trial license. 30 day(s) left Single Alpha-App FullName 2.USP 100 Trial license. 30 day(s) left Single Alpha-App FullName 2.USP 100 Trial license. 30 day(s) left Single Alpha-App FullName 2.USP 100 Trial license. 30 day(s) left Single Alpha-App FullName 2.USP 100 Trial license. 30 day(s) left Single Alpha-App FullName 2.USP 100 Trial license. 30 day(s) left Single Alpha-Test MaxHrsToUse. 100 Trial license. 30 day(s) left Single Bast Alpha-Test MaxHrsToUse. 100 Trial license. 30 day(s) left Single Bast Alpha-Test MaxHrsToUse. 100 Trial license. 30 day(s) left Single Bast Alpha-Test MaxHrsToUse. 100 Trial license. 30 day(s) left Single Bast Alpha-Test MaxHrsToUse. 100 Trial license. 30 day(s) left Single Bast Alpha-Test MaxHrsToUse. 100 Trial license. 30 day(s) left Single Bast Alpha-Test MaxHrsToUse. 100 Trial license. 30 day(s) left Single Bast Alpha-Test MaxHrsToUse. 100 Trial license. 30	T:/License V4 System Obfuscated/Outbox/BricsCAD Plugins/						
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+ For AutoCAD: Move or Copy all bundles in Outbox\AutoCAD Plugins folder to the

...\Autodesk\ApplicationPlugins folder.

+ Open AutoCAD, and check bundles are loaded:

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	App Version Status	Alpha-Test MaxHrsToUse-LISP 1.0.0 Trial - 30 days left				
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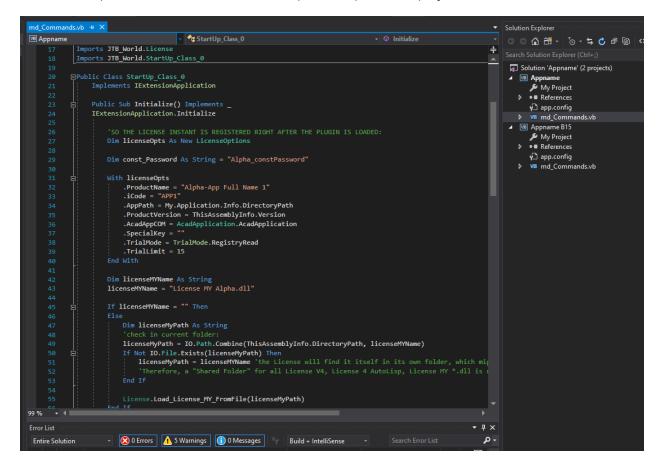
+ Back to Outbox, open the Source Code For Plugins folder, CAD plugin files are in this folder

Outbox	ha-App Full Name 1 > bin > Debug 🛛 🗸 🖑	ب ب Sea
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Lisp source code:



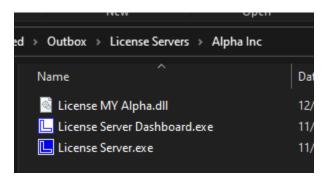
Assume that you have Visual Studio installed, you can open the vbproject:



NETWORK LICENSE SERVER

- + Back to the Super Test.exe app, now we check the Network License.
- + Click the red text button [Setup License Server For All]

+ For each License MY*.dll, it will create a folder in Outbox. The folder should be installed to a server PC on your LAN network. But here, it is ok just to test it in your current PC.



+ License Server.exe and License Server Dashboard.exe will run.

+ License Server.exe is where you have network licenses table to serve the License V4.dll. It should be run as a Window Service later.

+ Your App1, App2, etc. will get those network license via License V4.dll

+ License Server Dashboard.exe is the UI of License Server.exe. It can be run on another PC as well as License V4.dll. They connect with the License Server.exe via 2 different ports.

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+ At first, the License Table is empty. Look at the top left This Server ID key. Copy it and open the JTB License Manager.xlsm to generate License File.

+ Open again the License Manager.xlsm >>> "License Server" sheet tab:

EST 1 2:00:00 AM ELL15-507682092				These fields w	dll he everyde				
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				DayToClearServer's disconnected licenses > 0					
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+ **Important**: Paste your Server ID to the B₃ cell to Generate License File. Other sample fields can be leave as is.

+ Because in tab "Apps", cell C₂ is "License MY Alpha" and there is also a list of other 3 License MY files in column I, J, K, then, the JTB License Manager.xlsm macro will generate license files for Beta, Gamma.

- + Click Generate License File
- + All license files are now available for you to test on all License Servers.

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Client Name	TEST 1				These fields v	vill be override	to existing fields in Lic	ense
Date	12:00:00 AM		Generate Lic	cense File			are imported	
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request ID number (optional)					Used licenses are DayToClearServe		erver, provided that Serverl icenses >0	Down
Output: License File name to import to License Server (.lic)	TEST 1						If PC and Server disconne licensed and Server will re	
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+ New license files are in the Outbox folder:

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📄 License MY Beta.ini	12/1/2019 5:40 AM
📄 License MY Gamma.ini	12/1/2019 5:41 AM
📑 TEST 1-alpha.lic	12/2/2019 7:18 AM
🥁 TEST 1-beta.lic	12/2/2019 7:18 AM
📑 TEST 1-gamma.lic	12/2/2019 7:18 AM
💵 License Manager.xlam	11/30/2019 8:56 AM
🎭 JTB License Manager.xlsm	12/2/2019 7:17 AM

+ Back to the Outbox\License Servers folder, check License Server.exe for Alpha, Beta, Gamma are running. Run License Server Dashboard.exe for each and import the Test-*.lic file for each.

DELL15-507682092 Application Name Number Of Licenses Version Min Hrs Ea Max Hrs Ea Server Down Allowance (r After purchase is done, send above Server ID to Alpha Inc. at info@alpha.com to receive a License File. 1 1.0.0.0 0.1 Any 0 Instruction: - On each purchase, you will receive 1 License File. 1 1.0.0.0 Any 0.1 Any 0 - Your License Table is the sum of many License File. 1 1.0.0.0 Any Any 0 + Uicense File can contain licenses of many License File. + Oin each purchase, you will receive 1 License File. 1 1.0.0.0 Any Any 0 + Uicense File can contain licenses of many License File. + Oin each purchase, will be added to existing one in License Table, unless it is noted as "Replace". App Full Name 4 3 1.0.0.0 Any Any 0 Open Your New License File 1 1.0.0.0 Any Any 0 App Full Name 7 2 1.0.0.0 Any Any 0 App Full Name 1 2 1.0.0.0 App Full Name 6 2 1.0.0.0	Application Name Number Of Licenses Version Min Hits Eac Max Hits Ea Server Down Allowance (bove Server ID to Alpha Inc. License File. Test Min/Hits ToRelease 1 1.0.0.0 0.1 Any 0 aceive 1 License File. Test MaxHis ToUse 1 1.0.0.0 Any 0.1 0 aceive 1 License File. no finany License File. 1 1.0.0.0 Any 0 aceive 1 License File. app Full Name 1 2 1.0.0.0 Any 0 app Full Name 2 2 1.0.0.0 Any 0 App app Full Name 3 2 1.0.0.0 Any Any 0 app Full Name 5 3 1.0.0.0 Any Any 0 app Full Name 5 2 1.0.0.0 Any Any 0 app Full Name 5 3 1.0.0.0 Any Any 0 1.0.0.0 1.0.0.0 Any Any 0 Inits Dashb 1.0.0.0 1.0.0.0 Inits Dashb Inits Dashb Inits Dashb 1.0.0.0 1.0.0.0 Inits Dashb Inits Dashb Inits Dashb 1.0.0.0 Inits Dashb Inits Dashb Inits Dashb Inits Dashb <	Server ID			Your License Table						
App Full Name Version Open Your New License File 1 1.0.0.0 Any Any 0.1 0 App Full Name 2 1.0.0.0 Any Any 0 0 On each purchase, you will receive a License File. Your License Table is the sum of many License File. App Full Name 2 2 1.0.0.0 Any Any 0 Click *Open Your New License File 1 1.0.0.0 Any Any 0 App Full Name 2 2 1.0.0.0 Any Any 0 App Full Name 2 2 1.0.0.0 Any Any 0 App Full Name 2 2 1.0.0.0 Any Any 0 App Full Name 4 3 1.0.0.0 Any Any 0 App Full Name 5 3 1.0.0.0 Any Any 0 App Full Name 6 2 1.0.0.0 Any Any 0 App Full Name 6 2 1.0.0.0 Any App Full Name 4 3 1.0.0.0 App Full Name 4 3 1.0.0.0 App Full Name 4 3 1.0	Une Server ID Use Serv	L15-507682092			Application Name	Number Of Licenses	Version	Min Hrs Eac	Max Hrs Ea	Server Down Allowance (000
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+ Now, back to the Super Test.exe, we can open app's Activation window and query for network license.

+ We also have generated plugins for CAD. Then, we can open AutoCAD, and run the test commands or the Alpha_Activate_Apps command, then, query for the network license.

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+ Note that it takes some time for the License V4.dll and the License Server.exe to establish a connection. Network license sending request sometime has to run two or three time, then wait for some 15 or 30 seconds.

+ You can see the "Check out" (license sent) "Check in" (license returned) info in the License Server Dashboard.

DETAIL DESCRIPTION

THE LICENSE MY [YOURCOMPANY].DLL

+ Run JTB License MY Generator.exe to create and edit your License MY:

- Define the logo, your company name, your email address
- Create your confidential passwords
- Specify a registry "folder" location in your client's PC where all your license info will be saved to. This should be kept as a secret from the end users. License info is the installation date, the activation key, etc. It is used to determine when the trial period has started.
- Specify the Port Number range for License V4.dll and the network License Server apps.
- More detail will be written in another section.

+ Click generate and a new License MY [yourcompany].dll will be compiled, including the source code. You can change it, add your own KeyGen code, etc. Finally, recompile it.

+ The License MY [yourcompany].dll will be loaded by JTB World License apps at runtime, using latebound calls. Obfuscate it with normal mode to keep it compatible with other assemblies.

LICENSE V4.DLL

+ This is the central server of JTB World License apps.

When publishing your own software app, you include JTB World License apps and the License MY [yourcompany].dll assembly.

+ License V4.dll comes with 2 network license server apps:

JTB License Server Service and an installer to install it to a server

JTB World License Server Dashboard.exe and an installer to install it to your PC to manage the License Server service

PASSWORDS (DEFINED IN LICENSE MY [YOURCOMPANY].DLL

const_password

const_licensed

const_password_Lisp

const_licensed_Lisp

+ The syntax of main functions in License V4.dll is: FunctionName(arguments, password)

The password must be your const_password. This is to prevent others to use License V4.dll without permission.

+ each of **Your company's app** also has a password, which is the appcode. Without the appcode, other can't query the app's license.

+ when query for license, or trial license, if success, License V4.dll will return the const_licensed key, not a Boolean value. So, you must keep the const_licensed password and check it with the return value to determine the app is licensed or not.

This is to prevent others to mimic the License V4.dll's interface, create a License query function that return TRUE to crack the software.

(see more in sample source codes)

+ In Lisp, the syntax of main functions is: defun functionname (arguments password / ...) ...)

The password must be const_password_Lisp.

+ In Lisp, (I+checkLicense appcode) will return const_licensed_Lisp if license found.

Those passwords are different from above passwords because we don't want to expose const_password and const_licensed password out to Lisp code.

LICENSE FOR APPS.EXE

Your VBA, VB6 and your installer apps can't refer to License V4.dll. Therefore, they got to use this exe app to work with License V4.dll.

To run this app, include your License MY [yourcompany].dll in the folder.

The usage is complicated. Sample code of usage is in the JTB License Manager.xlsm embedded VBA project.

FOR YOUR AUTOCAD AND BRICSCAD PLUGIN APPS

+ If it is a .NET app, then you can refer directly to the License V4.dll and use its functions.

+ If it is a LISP app, then, you got to connect to the License V4.dll via loading one of the following assemblies:

License 4 AutoLisp 2013.dll

License 4 AutoLisp 2012.dll

License 4 BricsCAD.dll

Once loaded, you have a list of new LISP functions to work with License V4.dll

List of Lisp functions are:

Function used in [yourCompany]_ACTIVATE_APPS command:

(I+activateApps your_LicenseMY_filepath)

Your_LicenseMY_filepath should be a full path. But it can also just the "License MY [yourcompanyname].dll" if you are sure it is already loaded properly.

(I+activateMYLicenseMY your_LicenseMY_filepath)

Because in CAD plugins workspace, there are many License MY.dll. You have to call (l+activateMYLicenseMY ...) function first before running the following functions:

(I+createLicense	appname appcode
	const_password_Lisp
	[apppath] [version]
	[trialmode] [trialLimit]
	[altermsg1] [altermsg2] [altermsg3]
	[useComputername]
	[ispurchased]
	[no_networklicense])

apppath can be nil.

Trialmode = 1 for days of usage limitation. Trialmode = 0 then the limitation of trial license bases on the number of entities in Model Space of the current drawing.

Once a license object is created, you can check the status:

(I+CheckLicense appcode const_Password_Lisp)

If license is activated, it returns the const_Licensed_Lisp (even it is purchased trial license)

If it is just a trial license, not yet expired, it returns "T" & const_Licensed_Lisp.

Function to open activation window:

(I+ActivateLicense appcode const_Password_Lisp)

YOUR APPS

When you create:

+ A stand-alone app in .NET	>>> add License V4.dll as reference
+ An AutoCAD Plugin App in .NET	>>> add License V4.dll as reference
+ An AutoCAD Plugin App in LISP functions	>>> netload License 4 AutoLisp [version].dll to use the license
+ A BricsCAD Plugin App in Dot NET	>>> add License V4.dll as reference
+ A BricsCAD Plugin App in LISP	>>> netload License 4 BricsCAD.dll to use the license functions
+ An Excel VBA App Apps.exe. Sample codes of the commu Manager.xlsm.	>>> call and communicate with License V4.dll via License For unication procedure are handy and available in JTB License
+ VB6 App Apps.exe as above	>>> call and communicate with License V4.dll via License For
+ An installer network license preference, the purcha	>>> call License For Apps.exe at post-install to set up the ased trial license.

AutoCAD - How To Set Up Your Plugins Installation

AutoCAD (and Autodesk product, in general) provides a place call ApplicationPlugins folder where you should install your apps to.

You can include the License MY*.dll, License V4.dll, License 4 AutoLisp *.dll in each of your app's folder and register it to AutoCAD via the PackageContents.xlm. See Autodesk instructions on the PackageContents.xlm.

SHARED FOLDER FOR YOUR AUTOCAD PLUGINS

But since you can many apps, you might want License MY*.dll, License V4.dll, License 4 AutoLisp *.dll to be installed to a one-for-all-apps Shared Folder. That helps you to run the update easier.

+ you got to define a Shared Folder location. Each PC is different therefore the Shared Folder's address must be a soft address, defined by your installer

+ Move all the License MY*.dll, License V4.dll, License 4 AutoLisp *.dll to that Shared Folder

+ now, in your plugin app's folder, you will just have to load the Starter 2013.dll (or Starter 2012.dll) at AutoCAD startup.

That Starter 2013.dll is simple, small enough, and not subject to changes much. Therefore, it is ok to have it in all your apps folders.

+ Starter 2013.dll will find and load License 4 AutoLisp 2013.dll in your Shared Folder.

+ For Starter 2013.dll to know the location of your Shared Folder, you have to create a "Reference Locations.ini" file in its folder. Write down your Shared Folder address to that "Reference Locations.ini". The Starter 2013.dll will read it and get the path.

ISSUES

The autoapploader of AutoCAD is a little bit complicated because it is strictly managed by AutoCAD. We want, but never know how to tell AutoCAD to load Starter 2013.dll at the first place.

If it is not yet loaded, then all the lisp functions for license are not available, and your app might not be loaded properly.

We at JTB World found that put into the bottom of the loading list in the Package Contents.xlm would make it load at first.

Another issue about plugin apps that required to be remembered is:

Let says there are many AutoCAD plugin apps present at the same time. At start-up, AutoCAD loads them and the License apps:

App1.bundle	App2.bundle	Shared Folder
License 4 AutoLisp.dll	License 4 AutoLisp.dll	License 4 AutoLisp.dll
License V4.dll	License V4.dll	License V4.dll
License MY abc.dll	License MY xyz.dll	License MY xyz.dll

So, it is nothing for sure the loaded License V4.dll, License 4 AutoLisp.dll, etc. are in App1.bundle, or App2.bundle, or in Shared Folder. JTB World apps and Alpha, Beta, Gamm apps might be present as well.

Therefore, whenever you want to work with your License MY xyz.dll, you should specify the full path.

When you debug your app, make sure to disable all other apps.

For update, a Shared Folder for all is highly recommended.

BricsCAD - How To Set Up Your Plugins Installation

BricsCAD has no specific requirements. Therefore, JTB World proposes its own method:

+ Create a custom folder for all your BricsCAD app folders. Name it and located it at your own preference folder.

+ install all your apps to one folder.

+ Inside that folder, create a Shared Files folder

+ Put all your License MY [yourcompanyname].dll, License V4.dll, License 4 BricsCAD.dll to that the Shared Folder

+ Including these as well:

Starter for BricsCAD V4.exe

on_doc_load_lisp.lsp

+ At Post-install, run Starter for BricsCAD V4.exe, argument = "I" as install

+ Done. All your apps will be loaded to BricsCAD (from version 15 up, but version 17 and newer is recommended)

+ Open BricsCAD, and the Shared Folder\on_doc_load_lisp.lsp will be loaded. In its turn, on_doc_load_lisp.lsp does this:

- Get all the app folders in the main folder
- Find Windows sub folder in each
- loads all the lisp app (*.des, *.lsp), all the .net apps found
- Load all the cui files found

In House Apps For Developer To Manage The Licensing System

JTB License Manager.xlsm + License Manager.xlam

Macro-enabled Spreadsheets to manage licenses, generate activation keys, and generate network license files.

Language: VBA.

License File Generator.exe: this is called by the License Manager.xlam to generate activation keys and license files.

Language: .NET app.

Super Test.exe

+ This app is already described in QUICK TOUR. It is for testing purpose. You can use it to test various License MY*.dll and apps.

+ This app can generate CAD Plugin starter files and folders for your app, including source code, .NET assemblies and lisp file.

+ All sample code is in the generated source code created by this Super Test.