

# LabVIEW Hands-On

Third Party Licensing and Activation Toolkit 2011:  
Licensing an Executable with SoftwareKey Instant PLUS

LabVIEW Partner Program



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## GOAL

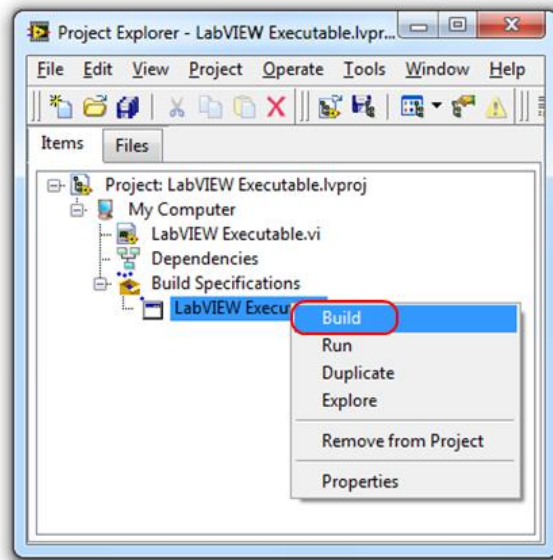
The easiest way to license an executable is through the Instant PLUS licensing injector tool. This tool is an easy-to-use licensing wizard that comes with the Protection PLUS licensing package from Concept Software. This exercise will show how to license a LabVIEW-built executable using Instant PLUS.

## PREREQUISITES

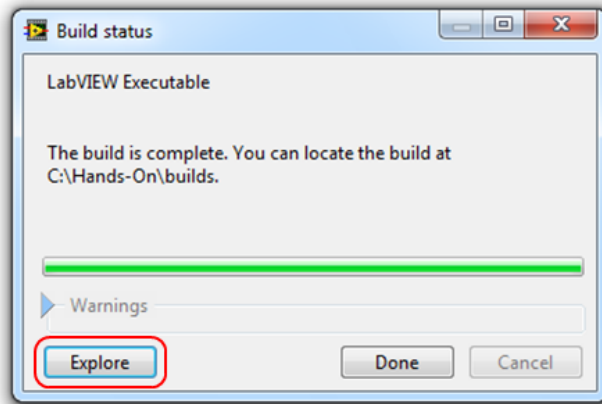
- LabVIEW 2010 or later
- “LabVIEW Executable” LabVIEW project.
- Protection PLUS software package from Concept Software (30-evaluation available at <http://www.softwarekey.com/>)
- Internet Connection

## PART 1: BUILD “LABVIEW EXECUTABLE.EXE”

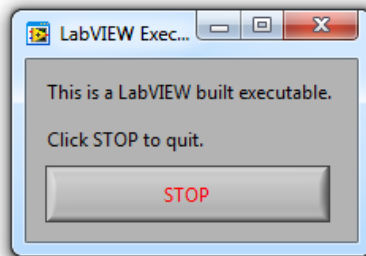
1. Open LabVIEW Executable.lvproj
2. View the source code of LabVIEW Executable.vi and test its functionality.
3. Close LabVIEW Executable.vi
4. In the project explorer window, right click on “LabVIEW Executable” under “Build Specifications” and select build



- When the build is complete, click Explore to view the executable file.

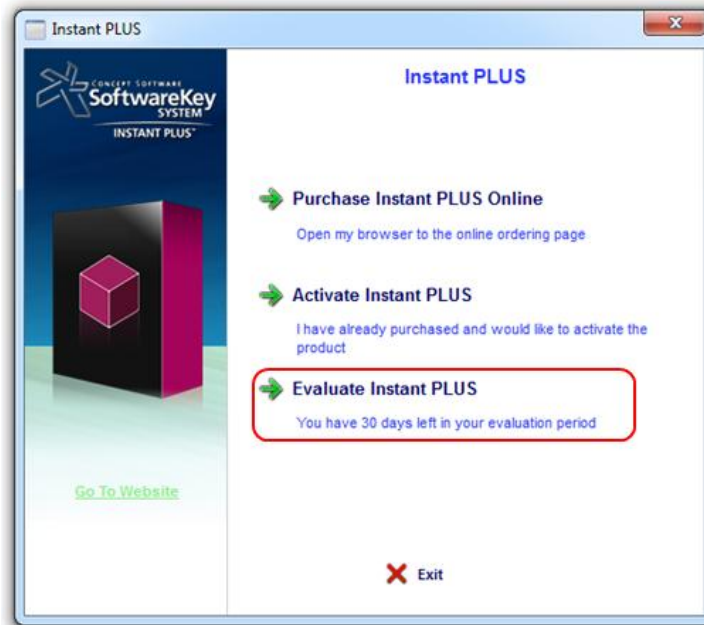


- Double click on LabVIEW Executable.exe to run it. See that the VI runs instantly.

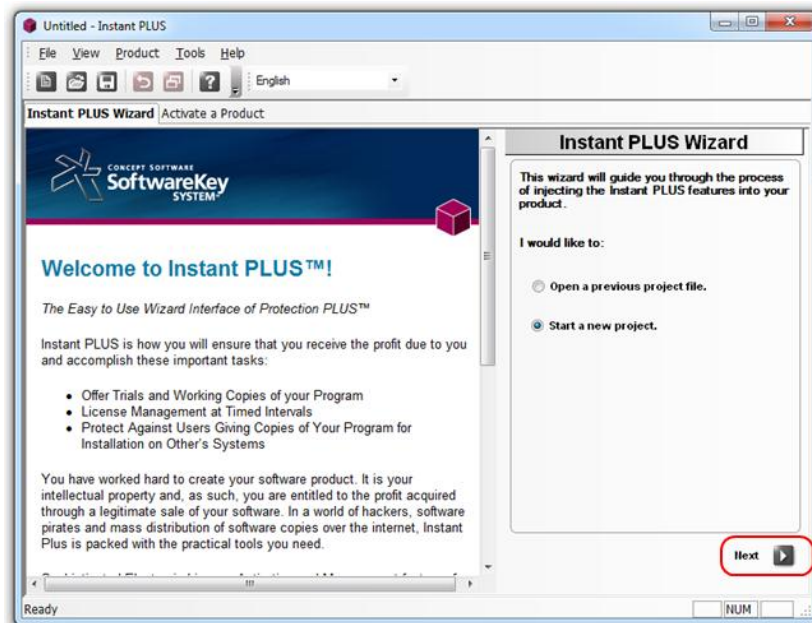


## PART 2: LICENSE EXE WITH INSTANT PLUS

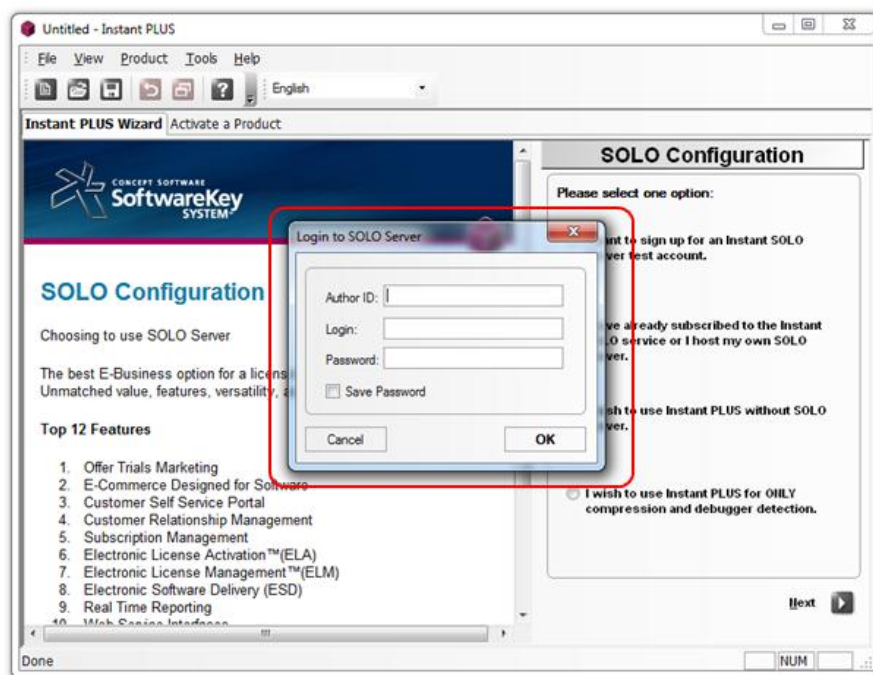
1. Click on the start menu and choose Start > All Programs > SoftwareKey Licensing System > Instant PLUS > Instant PLUS
2. If you are using a trial version of Instant PLUS, you will first get an evaluation screen. Click "Evaluate Instant PLUS" to continue



3. On the Instant PLUS Wizard page choose "Start a new project" and click Next



4. If you are using the Instant PLUS trial, click OK on the popup asking you to sign up for a test account.
5. In this hands-on you may use an existing test account to license the executable. On the SOLO Configuration page, choose "I have already subscribed to the Instant SOLO service or I host my own SOLO Server" and click Next. Alternately, you can create your own account by choosing "I want to sign up for an Instant SOLO Server test account".
  - a. **NOTE:** This SOLO Server account is a different account than the NI Hosted SOLO server account used in exercises 1-4 of this tutorial.
6. On the Login dialog, enter the Author ID, Login and Password. If you are using the existing trial account, the credentials to use are as follows:
  - a. Author ID: 3801470
  - b. Login: 3801470
  - c. Password: labviewtplat



7. Press OK on the Login Successful dialog.
8. On the Choose SOLO Product page, choose "I would like to create a new product on the SOLO Server" and click Next
9. Log into the SOLO Server page with the same Login ID and Password as in step 6.

10. In the “Add Product Wizard”, fill out the information for the new product as shown in the below screenshots and click Next on the left pane.
- Note:** If you are using a shared account, Product Name should be unique to you. This will allow you to differentiate your product from other users of this Hands-on. Description, Option Name, Option Description and Price can be whatever you choose. Everything else should remain default.

Untitled - Instant PLUS

File View Product Tools Help

Instant PLUS Wizard Activate a Product | SOLO Server

CONCEPT SOFTWARE  
SoftwareKey  
SYSTEM

Add Product Wizard:

Product Name: LabVIEW Executable

Description: This is a LabVIEW Built Executable

Option Name: License

Option Description: 1 License

Price: 0.0

Activations Allowed: 10

Issue InstallationID: ☐

Allow Deactivations: ☐

Back Next

Done NUM

Untitled - Instant PLUS

File View Product Tools Help

Instant PLUS Wizard Activate a Product | SOLO Server

CONCEPT SOFTWARE  
SoftwareKey  
SYSTEM

Add Product Wizard:

Allow Deactivations: ☐

Deactivations Allowed: 0 -1=Infinite

Allow Reactivation on the Same Computer: ☐

Activation Threshold: 0 0=allow multiple activations on same computer, -1=allow one activation per license

IP Activation Mode: No restrictions

IP Mask: Please Select

Trigger Code: 01 - Activate the product

Trigger Code Seed: 33033 (If unsure, select number between 1 and 9999)

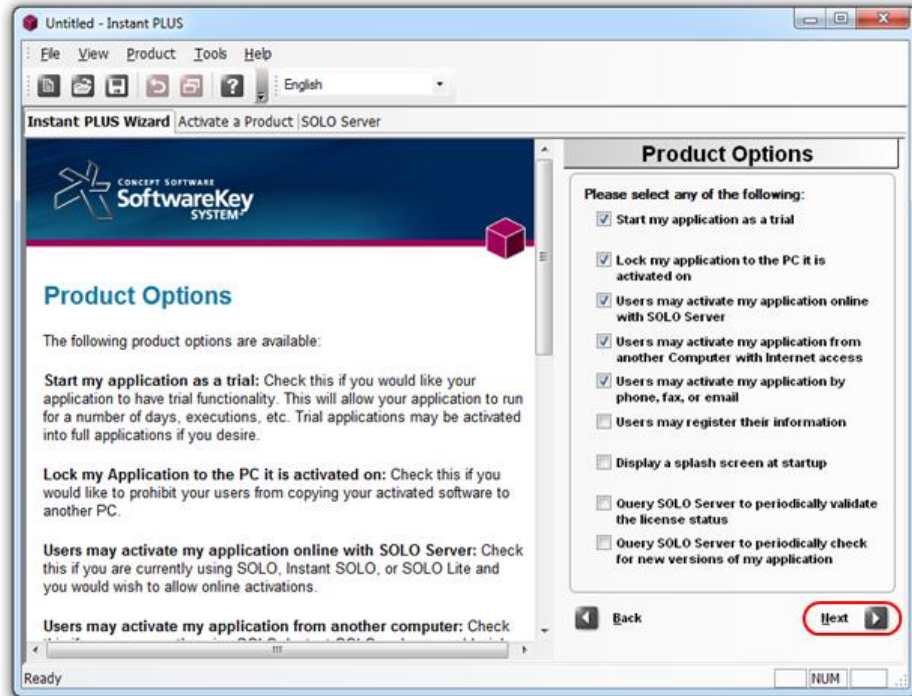
Offline Activation Key: 676KrjHixq7Gd1MEj43cit8Ao24Xu (Enter a random series of letters and numbers)

Next >>

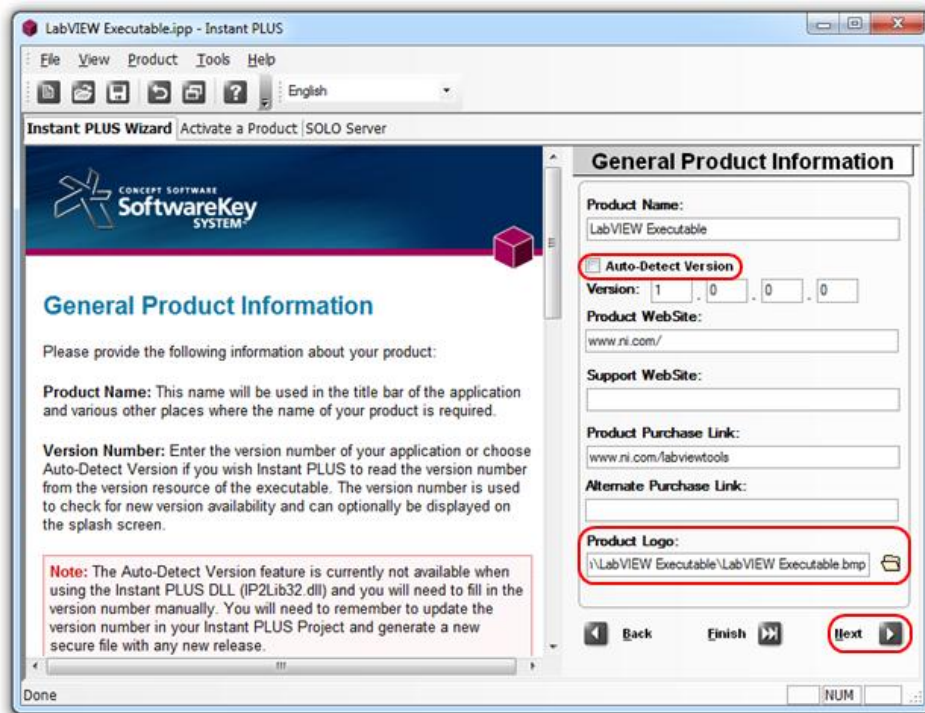
Back Next

Done NUM

11. On the Product Options page, click Next. There is no need to change these options.

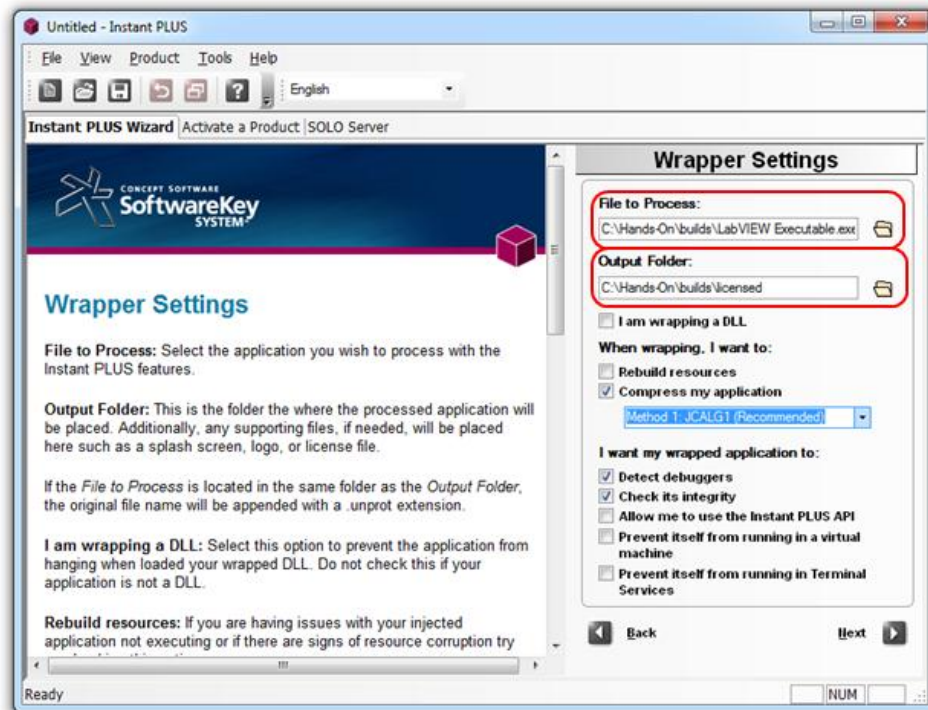


12. On the General Product Information page, uncheck "Auto-Detect Version" and enter the version number of your software. Change the Product Logo to C:\Hands-On\LabVIEW Executable\LabVIEW Executable.bmp, or any other bitmap file. Click Next.



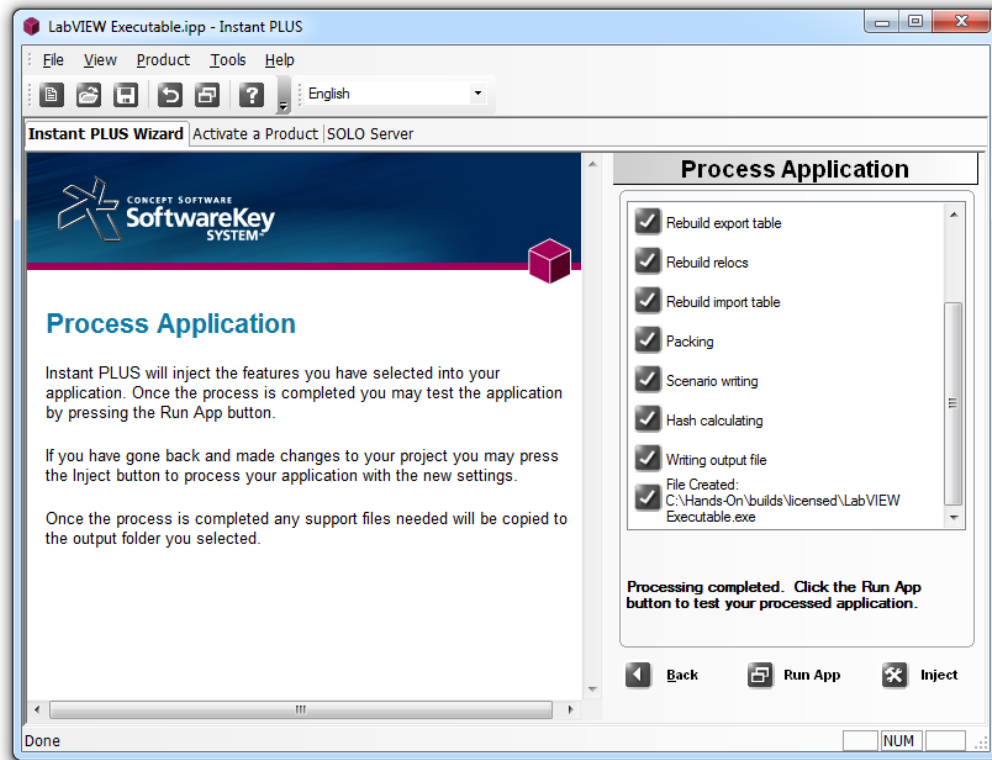


13. On the License File Options page, click Next. There is no need to change these options.
14. On the Trial Options page, click Next.
15. On the Copy-Protection Options page, click Next.
16. On the Telephone Activation Options page, click Next.
17. On the Activation Options page, click Next.
18. On the License Key Injection page, click Next.
19. On the Periodic Expiration page, click Next.
20. On the Output Type page, click Next.
21. On the Wrapper Settings page, choose the executable to be licensed in “File to Process” field. Change the Output Folder to “C:\Hands-On\builds\licensed”. Do not change the other options.



22. When prompted to save changes, click Yes. Save the IPP file somewhere on your hard drive. This file should not be distributed with the executable.

23. Wait for the Process Application window to display “Processing completed.” Your executable is now licensed.



### PART 3: TEST YOUR LICENSED EXECUTABLE

1. In the Instant PLUS dialog click the “Run App” button to test your licensed application. Alternately you can run “C:\Hands-On\builds\licensed\LabVIEW Executable.exe” from windows explorer.
2. Press OK on the Trial Message dialog. This only appears since you licensed the executable using a trial version of Instant PLUS.

3. The next window that opens is the evaluation dialog that users will see if they run your application without a full license.



4. Click Evaluate LabVIEW Executable to bypass the Evaluation Dialog and proceed to the built application. Notice that aside from the evaluation dialog, the application runs just the same as before licensing was added.

## ADDITIONAL NOTES

The first time that the licensed application is run, it is important to change the necessary permissions of all license files and registry entries. This can be done by calling the EXE with the command line parameter **/OPENLF**. Since this needs to be done at install time, your installer can copy over the licensed EXE file to the target system and immediately call it with the **/OPENLF** command line parameter to set the permissions and exit.

## CONCLUSION

This hands-on covers licensing a LabVIEW Executable using SoftwareKey Instant PLUS. If you need more advanced licensing functionality, you can also utilize Third Party Licensing & Activation Toolkit Licensing API. For licensing a LabVIEW Library, you can use the Third Party Licensing & Activation Toolkit Add-on Licensing Tool. More information on these topics can be found on the Third Party Licensing & Activation Toolkit community portal ([ni.com/licensingtoolkit](http://ni.com/licensingtoolkit)). For additional questions, you can also contact the LabVIEW Partner Program team at [labviewpartnerprogram@ni.com](mailto:labviewpartnerprogram@ni.com).

## ONLINE RESOURCES

- **[ni.com/licensingtoolkit](http://ni.com/licensingtoolkit)** – learn about licensing your LabVIEW add-on, toolkit, or executable
- **[ni.com/labviewtools](http://ni.com/labviewtools)** – browse and download LabVIEW add-ons from NI and third-parties
- **[ni.com/addondevcenter](http://ni.com/addondevcenter)** – find resources for developing your LabVIEW add-on
- **[jki.net/vipm](http://jki.net/vipm)** – learn more about VI Package Manager
- **[labviewpartnerprogram@ni.com](mailto:labviewpartnerprogram@ni.com)** – contact NI's Partner team if you have questions on LabVIEW add-ons

