### **Embed License File into MSI**

Modify MSI to place a license key file in the correct directory automatically.

## **About the Project:**

The project focuses on modifying an MSI installer to embed a license file (license.key) into the appropriate installation directory. This ensures that when the application is installed, the license file is automatically placed in the specified folder without manual user intervention.

Before proceeding with this task, it is essential to install a few critical tools and dependencies to ensure a smooth and successful setup.

# **Requirements Before Starting:**

### **Project Requirements:**

- 1. Orca Editor (part of Windows SDK)
- 2. WiX Toolset (Wix314.exe)
- 3. Dummy MSI file (DummyProduct.msi)
- 4. Dummy License Key file (license.key)
- 5. Folder Structure:

Example: C:\Users\sachi\OneDrive\Documents\Project2

- 6. File Size in Bytes (for license.key)
- 7. Developer Command Prompt
- 8. Basic text editor (Notepad)

### Tasks Performed:

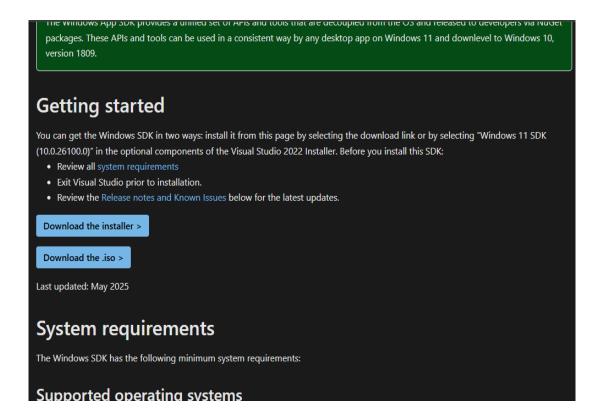
Performed on a local Windows machine with tools like Orca and WiX Toolset:

- Installed Orca via Windows SDK
- Installed WiX Toolset
- Created and configured .wxs file
- Built updated MSI via command line
- Embedded license.key using Orca
- Tested final MSI output

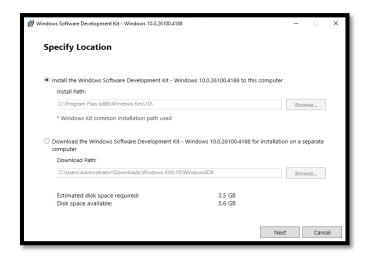
## Step 1: Orca Installation steps:

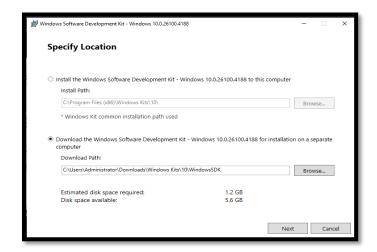
a. Click on download the installer

Open <a href="https://developer.microsoft.com/en-us/windows/downloads/windows-sdk/">https://developer.microsoft.com/en-us/windows/downloads/windows-sdk/</a> and click **Download the installer** to download **winsdksetup.exe** 



b. Select the second radio button and browse path then download...... then NEXT

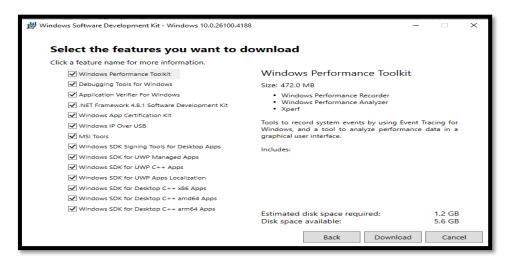




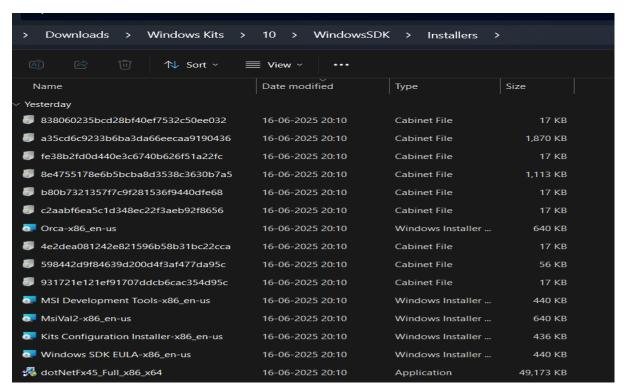
#### Click on YES



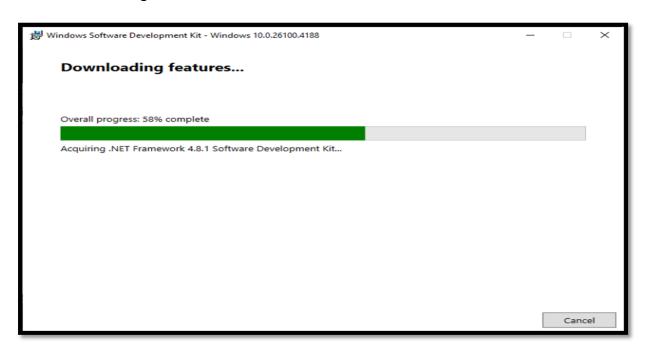
c. Select all the options and click on next->



d. Double click on Orca-x86\_en.msi ->Navigate to this path



e. Downloading-----



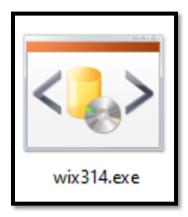
## **Step 2: wixtoolset Installation steps:**

a. Download **wix314.exe** from <a href="https://github.com/wixtoolset/wix3/releases">https://github.com/wixtoolset/wix3/releases</a> click on 3<sup>rd</sup> option wix314.exe



b. Click on install in win314.exe file





**Step 3:** Extract the dummy.msi file in the Project2 folder you can see three file here we can't see license file here till now

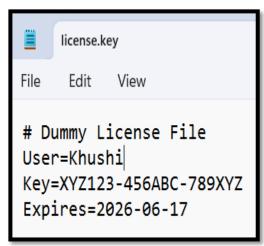
-> C:\Users\sachi\OneDrive\Documents\Project2



-> Go to DummyProduct.wxs modify the file

```
DummyProduct.wxs - Notepad
File Edit Format View Help
  <Feature Id="ProductFeature" Title="DummyApp" Level="1">
   <ComponentGroupRef Id="ProductComponents"</pre>
  </Feature>
 </Product>
 <Fragment>
  </Directory>
  </Directory>
 </Fragment>
 <Fragment>
  </Component>
  </ComponentGroup>
 </Fragment>
</Wix>
```

**Step 4**: Open Notepad and create an dummy license key file and save it in the same directory Project2



**Step 5:** Go to command prompt (run as administrator)

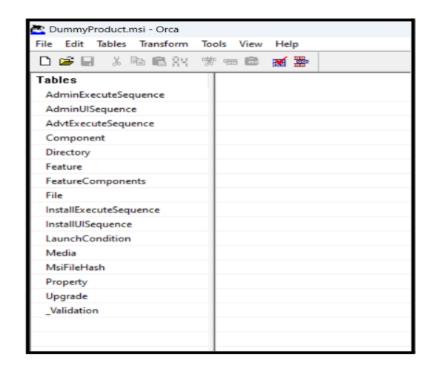
First, go to the path where your dummy.msi exist in folder which you created names as Project2 in cmd

Run these commands from Developer Command Prompt (WiX Toolset must be installed):

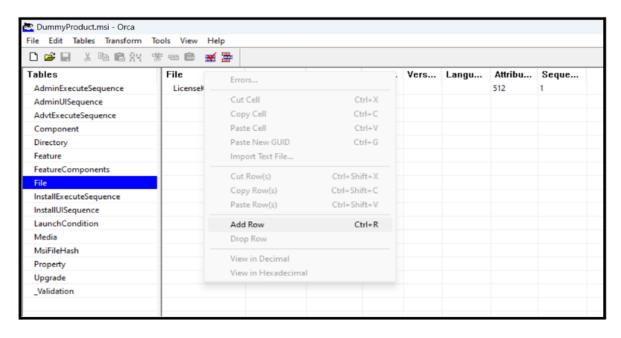
1<sup>st</sup> command -> candle DummyProduct.wxs

2<sup>nd</sup> command -> light DummyProduct.wixobj -o DummyProduct.msi

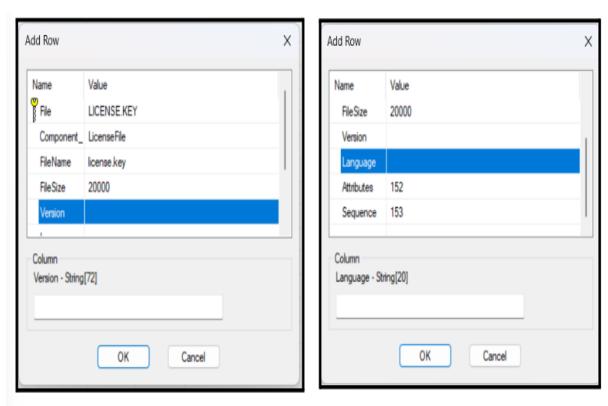
Step 6: Open Orca inside that go to file and then open dummy.msi file in orca



Step 7: Click on File where left box is there and then one more box will open then add row



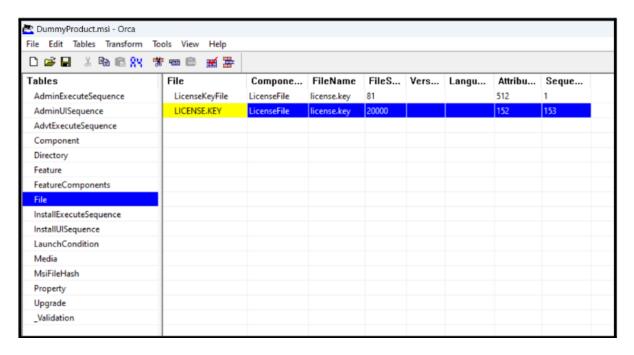
Step 8: Put the information according to the .wxs file DummyProduct.wxs



- ->Then right click on File 1st column and click on add row option and add one row
- ->Add one row as shown below

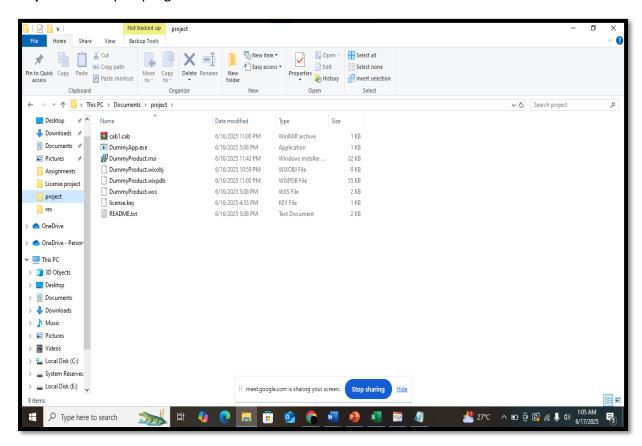
File	Compone	FileName	FileS	Vers	Langu	Attribu	Seque
LICENSE.KEY	LicenseFile	license.key	20000			512	513

Step 9: Save the .msi file DummyProduct.msi



->Save and close

Step 10: Now open program file and see the final result



# **Analysis Result:**

- Success: License file placed correctly
- MSI functions normally with embedded license
- Verified by reinstallation and folder check

# Technologies/Tools Used:

- Orca Editor
- WiX Toolset (Candle & Light)
- PowerShell/Command Prompt
- Windows 10
- Notepad