

1. My external API JSmartLockG2.class is stored in c:\package

P (C:) > package > com > mcamos

名稱	修改日期	類型	大小
JSmartLockG2.class	2021/8/2 上午 11:28	CLASS 檔案	1 KB

2. Open the MS-DOS command window and change the directory path to c:\package

3. Package the external API into a jar file. Execute jar cvf JSmartLockG2.jar com

```
C:\package 的目錄
2021/08/03 上午 10:37 <DIR>      .
2021/08/03 上午 10:37 <DIR>      ..
2021/08/03 上午 10:34 <DIR>      com
                        0 個檔案      0 位元組
                        3 個目錄  52,398,166,016 位元組可用

C:\package>jar cvf JSmartLockG2.jar com
已新增資訊清單
新增: com/ (讀=0)(寫=0)(儲存 0%)
新增: com/mcamos/ (讀=0)(寫=0)(儲存 0%)
新增: com/mcamos/JSmartLockG2.class (讀=531)(寫=345)(壓縮 35%)

C:\package>
```

4. JSmartLockG2.jar is generated in the c:\package directory

MP (C:) > package

名稱	修改日期	類型	大小
com	2021/8/3 上午 10:34	檔案資料夾	
<u>JSmartLockG2.jar</u>	2021/8/3 上午 10:39	Executable Jar File	1 KB

5. Store the JSmartLockG2.jar file in the Additional Libraries directory set by the B4J development environment

Paths Configuration

javac.exe C:\Program Files\Java\jdk1.8.0_131\bin\javac.exe Browse
Usually found under C:\Program Files\Java\jdk1.8.x_xx\bin

Additional Libraries D:\B4J\AdditionalLib Browse
(optional) A folder where libraries will be searched for, in addition to the internal libraries folder.

Shared Modules D:\B4J\SharedModules Browse
(optional) A folder where code modules will be searched for, in addition to the project folder.

Cancel Ok

(D:) > B4J > AdditionalLib

名稱	修改日期	類型	大小
api.jar	2019/5/9 下午 04:04	Executable Jar File	10,876 KB
B4JPackager11.jar	2021/7/8 下午 05:39	Executable Jar File	755 KB
castor-1.0-xml.jar	2019/5/7 下午 02:31	Executable Jar File	1,308 KB
commons-logging.jar	2019/5/7 下午 02:31	Executable Jar File	31 KB
CustomListView.bas	2021/7/1 下午 04:36	BAS 檔案	20 KB
jakarta-regexp-1.1.jar	2019/5/7 下午 02:31	Executable Jar File	30 KB
jAudioRecord.jar	2014/2/18 上午 10:19	Executable Jar File	4 KB
jAudioRecord.xml	2014/2/18 上午 10:20	XML Document	5 KB
jna-3.1.0.jar	2011/10/19 上午 11:09	Executable Jar File	754 KB
<u>JSmartLockG2.jar</u>	2021/8/3 上午 10:39	Executable Jar File	1 KB
log4j-1.2.17.jar	2019/5/7 下午 02:31	Executable Jar File	480 KB
proxy.jar	2019/5/9 下午 04:04	Executable Jar File	463 KB
Threading.jar	2012/6/23 下午 05:13	Executable Jar File	8 KB
Threading.xml	2012/6/23 下午 05:13	XML Document	21 KB
xerces-J_2.9.1.jar	2019/5/7 下午 02:31	Executable Jar File	1,199 KB

6. Add #AdditionalJar: JSmartLockG2.jar to the B4J program and use JavaObject to call external APIs

```
#Region Project Attributes
    #MainFormWidth: 600
    #MainFormHeight: 600
    #AdditionalJar: jna-3.1.0.jar
    #AdditionalJar: JSmartLockG2.jar
#End Region

Sub Process_Globals
    Private fx As JFX
    Private MainForm As Form
    Private xui As XUI
    Private Button1 As B4XView
    Dim SmartLockG2 As JavaObject
    Dim G2 As JavaObject
End Sub

Sub AppStart (Form1 As Form, Args() As String)
    MainForm = Form1
    MainForm.RootPane.LoadLayout("Layout1")
    MainForm.Show
    G2 = SmartLockG2.InitializeNewInstance("com.mcamos.JSmartLockG2",Null)
End Sub

Sub Button1_Click
    Dim Counter As Int
    xui.MsgboxAsync("Hello World!", "B4X")
    Counter = G2.RunMethod("USBG2GetCount",Null)
    xui.MsgboxAsync("Counter = " & Counter, "B4X")
End Sub
```

7. Finish