

[http://mistyprojects.co.uk/documents/winpe\\_tweaks/readme.files/WoW6432Node.htm](http://mistyprojects.co.uk/documents/winpe_tweaks/readme.files/WoW6432Node.htm)

## WoW64 - WoW6432Node

Whilst the files and registry settings included elsewhere in this guide will enable Windows 32 on Windows 64 (WoW64) support, many 32-bit applications will not function correctly without additional settings imported from a full Windows installation.

The recommended source for these settings is unmodified Windows installation media, for example an .iso file - preferably RTM sources. The installation media source must match the WinPE source - i.e WinPE 6.1.6701 and Windows 6.1.6701 source files. A Windows Installation .iso file can be used for both WinPE and Windows sources and will ensure that the source files match.

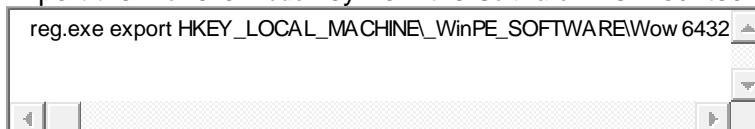
Assuming an .iso file is used, you will need to extract the *SOFTWARE* hive from *\Sources\install.wim* and then complete a number of tasks. These are detailed below -

1. Extract the *SOFTWARE* hive. 7-zip can be used for this purpose - use the 7-zip file manager and open the .iso file > then browse to *\Sources\install.wim* > use the **open inside** option > Select an image if multiple images are present > browse to *Windows\System32\config* > extract *SOFTWARE* (e.g. to *C:\Install\_Wim\_Files\software*).

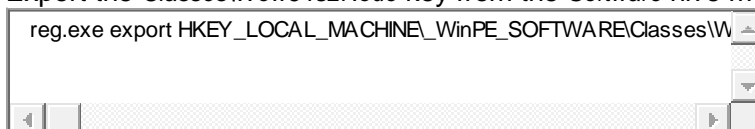
2. Mount the *Software* hive extracted in step 1. E.g.



3. Export the *Wow6432Node* key from the *Software* hive mounted in step 2. E.g.

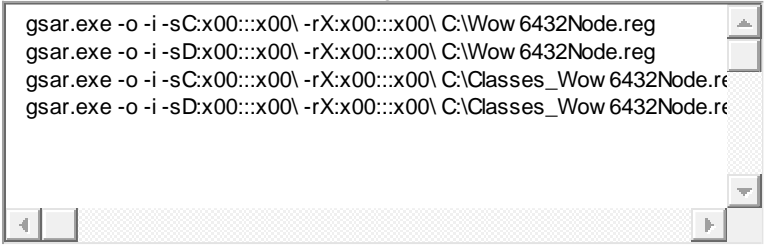


4. Export the *Classes\Wow6432Node* key from the *Software* hive mounted in step 2. E.g.



5. Open the .reg files exported in steps 3 and 4 and replace all references to *C:\* and *D:\* with *X:\*. Notepad.exe can be used for this task. Alternatively use gsar if you want to automate

this from the command line. E.g.



```
gsar.exe -o -i -sC:x00:::x00\ -rX:x00:::x00\ C:\Wow 6432Node.reg  
gsar.exe -o -i -sD:x00:::x00\ -rX:x00:::x00\ C:\Wow 6432Node.reg  
gsar.exe -o -i -sC:x00:::x00\ -rX:x00:::x00\ C:\Classes_Wow 6432Node.re  
gsar.exe -o -i -sD:x00:::x00\ -rX:x00:::x00\ C:\Classes_Wow 6432Node.re
```

6. Unload the mounted *Software* hive. E.g.



```
reg.exe unload HKLM_WinPE_SOFTWARE
```

7. Mount the WinPE *software* hive using the same command syntax as in step 2, but changing the path as required. Ensure that you use the same key name as that used in step 2. E.g.



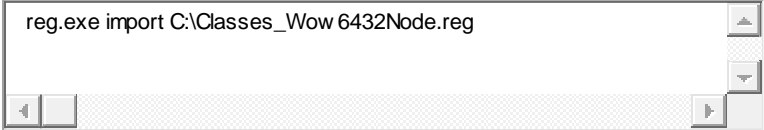
```
reg.exe load HKLM_WinPE_SOFTWARE C:\WinPE_Wim_Files\softw are
```

8. Import the .reg file created in step 3. E.g.



```
reg.exe import C:\Wow 6432Node.reg
```

9. Import the .reg file created in step 4. E.g.



```
reg.exe import C:\Classes_Wow 6432Node.reg
```

10. Delete the *Wow6432Node\Microsoft\Active Setup\Installed Components* key. E.g.



```
reg.exe delete "HKLM_WinPE_SOFTWAREWow 6432Node\MicrosoftAc
```

11. Unload the mounted *Software* hive. E.g.



```
reg.exe unload HKLM_WinPE_SOFTWARE
```