Metascan Portable USB Creation Step-bystep Guide

What you need to start:

- The ZIP file containing this PDF and our customized Make_PE3
- IP address / hostname of Metascan Server
- Windows 7 32-bit install disk
- OPTIONAL: Any drivers you wish to add

1> Unzip folder to hard drive

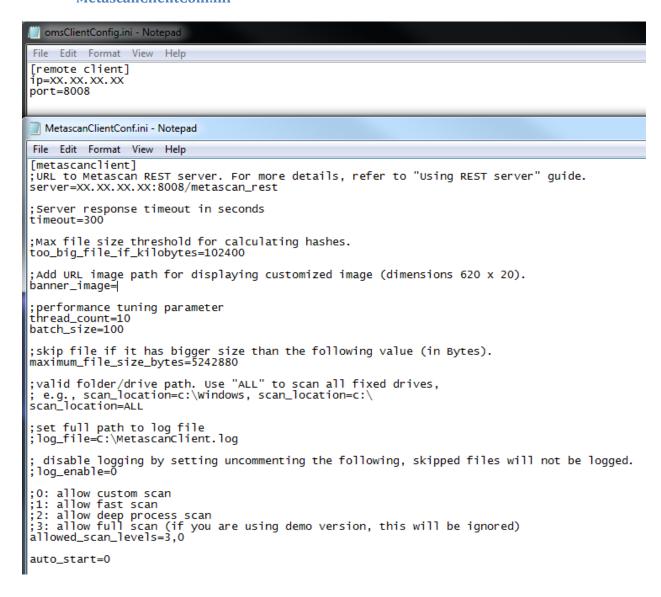
► Local Disk (C:) ► Metasca	nBootable	eUSB ▶			
rary ▼ Share with ▼	Burn	New fo	older		
Name			Date modified	Туре	Size
📗 addsgtti			7/12/2012 6:42 AM	File folder	
AIK_Tools			7/12/2012 6:42 AM	File folder	
GetWaikTools			3/19/2013 12:16 AM	File folder	
ル Help_Info			11/25/2013 10:14	File folder	
IME_support			7/12/2012 6:42 AM	File folder	
📗 ImgBurn_2580			11/25/2013 11:51	File folder	
📗 makebt			11/26/2013 1:24 AM	File folder	
MULTI			8/8/2012 11:55 PM	File folder	
MULTI_ISO			7/12/2012 6:42 AM	File folder	
📗 Packages			7/12/2012 6:42 AM	File folder	
PE3_mod			7/12/2012 6:42 AM	File folder	
ShutdownPE			3/19/2013 2:56 AM	File folder	
TestNF20			7/12/2012 6:41 AM	File folder	
ル WContig115			11/25/2013 10:24	File folder	
퉱 win7pe_amd64			7/12/2012 6:41 AM	File folder	
퉱 win7pe_ia64			7/12/2012 6:41 AM	File folder	
╟ win7pe_x86			7/12/2012 6:41 AM	File folder	
BOOT_IMG.exe			11/26/2013 5:06 AM	Application	763 KB
imdiskinst.exe			10/31/2013 6:21 AM	Application	338 KB
Make_MULTI_ISO.cmd			2/2/2012 1:29 AM	Windows Comma	4 KB
Make_PE3.cmd			11/26/2013 2:24 AM	Windows Comma	185 KB
Make_PE3.exe			11/26/2013 2:21 AM	Application	817 KB

Local Disk (C:) ▶ MetascanBootableUSB ▶ PE3_mod ▶ PE3_add ▶ x86 ▶ Program Files ▶ MetascanClient New folder brary 🔻 Share with ▼ Burn Name Date modified Type Size ✓ MetascanClient.exe 11/18/2013 5:27 PM Application 2,542 KB MetascanClientConf.ini 12/10/2013 1:24 PM Configuration sett... 2 KB MetascanConnectorContextMenu.bat 12/10/2013 3:39 PM Windows Batch File 1 KB amsClientConfig.ini 12/10/2013 1:25 PM Configuration sett... 1 KB omsRemote.dll 12/10/2013 1:22 PM Application extens... 270 KB omsRemoteCLU.exe 12/10/2013 1:22 PM Application 454 KB omsRemoteCOM.dll 12/10/2013 1:22 PM Application extens... 99 KB

3> Set the Metascan IP address in "MetascanClientConf.ini" and "omsClientConfig.ini".

OPTIONAL: You may wish to set Metascan Client's options within

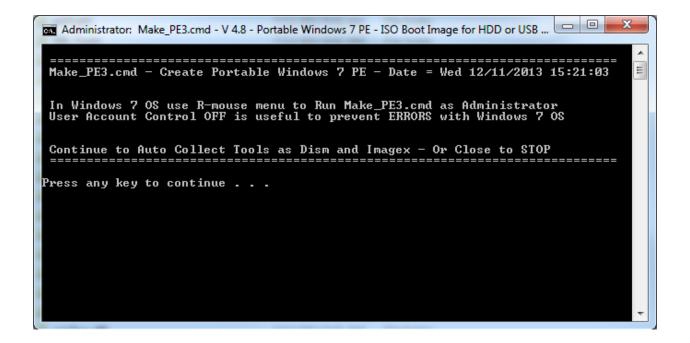
"MetascanClientConf.ini"



OPTIONAL: If you wish to add drivers, drag and drop their folders into \PE3_mod\WIN7_drivers\x86. Additional customization options can be found in \PE3_mod\Customize_Info.txt

4> Save and return to the root folder of the project. Run "Make_PE3.cmd". If UAC is enabled, run as Administrator

5> You should see this screen. Press a key



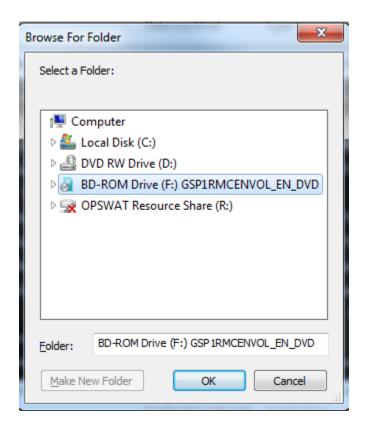
6> Insert a Windows 7 32-bit installation disk. Select option 1

```
💷 Administrator: Make_PE3.cmd - V 4.8 - Portable Windows 7 PE - ISO Boot Image for HDD or USB ... 🖂 🕒
 Make_PE3.cmd - Create Portable Windows 7 PE - Date = Wed 12/11/2013 15:21:33
    7pe_amd64 ISO = Win7 Recovery ISO with Windows 7 GUI pe3_amd64 ISO = AIK Windows PE 3.0 with Windows 7 GUI
                                                                      C - CD = [NO]
Adobe = [YES]
    Drop driver folder in WIN7_drivers\amd64 and Select 2
                                                                    NetFrame = [NO]
                                                                                          Ξ
    T - AIK Tools = C:\Program Files\Windows AIK\Tools\AMD64
    0 - System Locale = en-US
                                                              E - Version = [EXP]
                                    Arch = amd64
    1 - Windows 7 Source = [C:]
    2 - Get Windows 7 Files

    without AIK M - Make

                                                              7pe\_amd64 ISO = [YES]
    3 - Use Collected Win? Files without AIK to Remake
                                                              7pe_amd64 ISO
    4 - Get Windows 7 Files
                                    and use AIK to
                                                              pe3_amd64 ISO
    5 - Use Collected Win7 Files and use AIK to Remake
                                                              pe3_amd64 ISO
    Q - Quit
                   pe3 folder = C:\winpe3_amd64
                                                               P - Optimize = [YES]
Enter your choice: 1
```

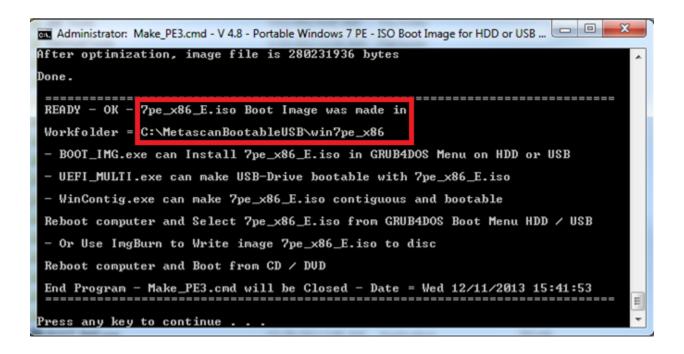
7> Select the drive containing the Windows 7 disk



8> Select option 2. On future runs, option 3 can be selected. This step may take some time to complete

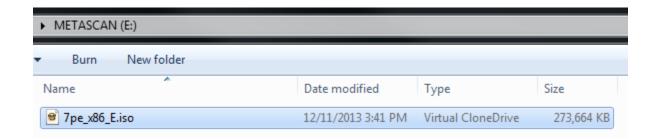
```
🔤 Administrator: Make_PE3.cmd - V 4.8 - Portable Windows 7 PE - ISO Boot Image for HDD or USB ... 🗀 😐
 Make_PE3.cmd - Create Portable Windows 7 PE - Date = Wed 12/11/2013 15:25:04
    7pe_x86 ISO = Win7 Recovery ISO with Windows 7 GUI pe3_x86 ISO = AIK Windows PE 3.0 with Windows 7 GUI
                                                                    C - CD = [NO]
Adobe = [YES]
    Drop driver folder in WIN7_drivers\x86 and Select 2
                                                                 NetFrame = [NO]
    T - AIK Tools = C:\Program Files\Windows AIK\Tools\AMD64
    0 - System Locale = en-US
                                    Arch = x86
                                                            E - Version = [EXP]
    1 - Windows 7 Source = [F:]
    2 - Get Windows 7 Files
                                  - without AIK M - Make 7pe_x86 ISO = IYES1
    3 - Use Collected Win7 Files without AIK to Remake
                                                              7pe_x86 ISO
    4 - Get Windows 7 Files
                                    and use AIK to
                                                       Make
                                                              pe3_x86 ISO
    5 - Use Collected Win7 Files and use AIK to Remake
                                                              pe3_x86 ISO
    Q - Quit
                    pe3 folder = C:\winpe3_x86
                                                             P - Optimize = [YES]
Enter your choice: 2
```

9> Eventually you will reach this screen. The window will tell you where the ISO was created

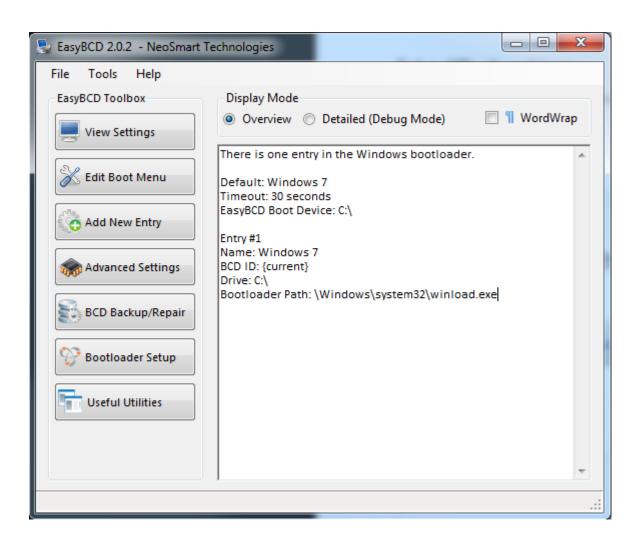


- 10> At this point, the ISO is ready to be burned onto a disk or can be placed onto a flash drive
 - a. There are many tools which can accomplish this. An easy one to use is EasyBCD, which allows the product to run inmemory so the USB can be removed after boot
 - b. Instructions on using EasyBCD to set up the ISO are included below

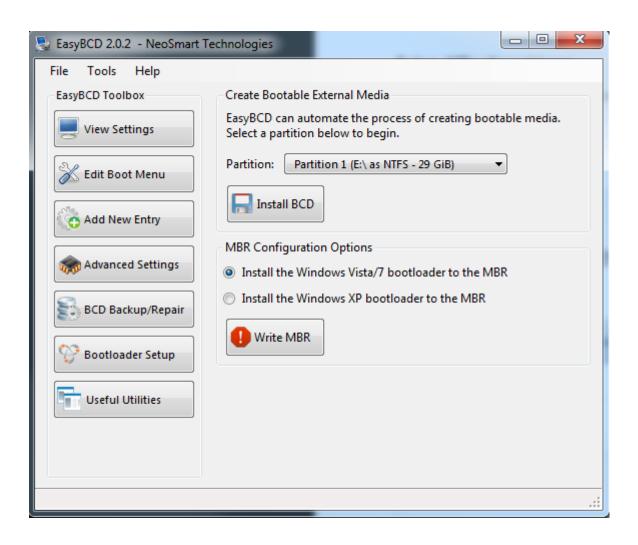
11> Copy the ISO onto the root of your USB drive



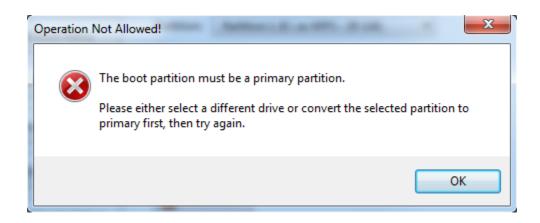
12> Open EasyBCD



13> Click "Bootloader Setup", then select the flash drive from the "Partition" drop-down menu. Click "Install BCD"



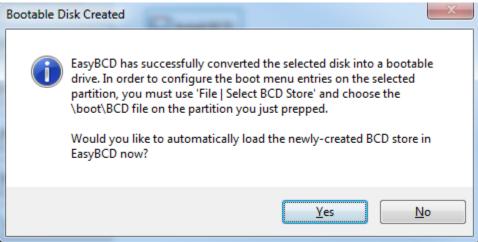
POSSIBLE: You may encounter an error if the first partition is not flagged properly. If you encounter this error, open an elevated command prompt and use the "MbrFix.exe" tool found in $\PE3_mod\PE3_add\x86\Windows\System32$ and use the "clean" command. This will erase reset the USB device's partition table



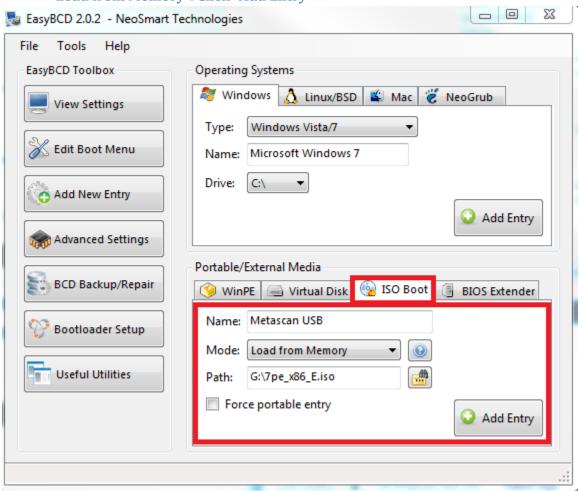
PS C:\MetascanBootableUSB\PE3_mod\PE3_add\x86\Windows\System32> .\MbrFix.exe /drive 1 clean This command deletes all partitions. You are about to Delete partitions. are you sure (Y/N)? Y PS C:\MetascanBootableUSB\PE3_mod\PE3_add\x86\Windows\System32>

POSSIBLE CONTINUATION: Remove and re-insert the USB drive. Format it and copy the ISO back onto the drive. Proceed with step 13

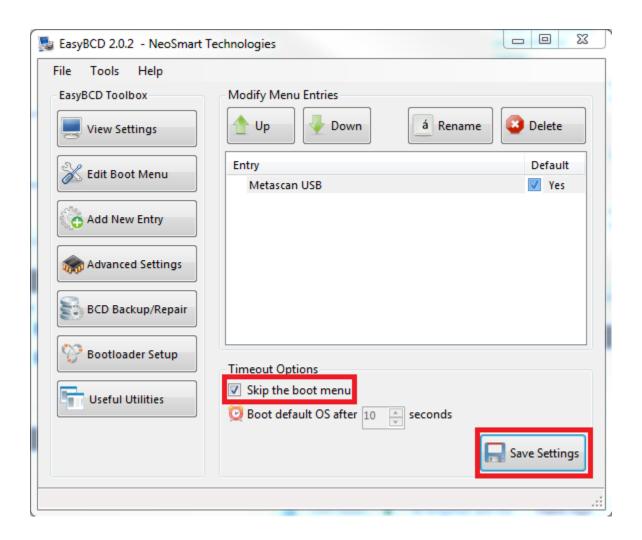
14> This screen should appear. Click "Yes"



15> Go to "Add New Entry", then "ISO Boot". Choose the path to the ISO and choose "Load from Memory". Click "Add Entry"



16> Go to "Edit Boot Menu", then check "Skip the boot menu" and click "Save Settings"



The USB drive is now bootable and ready for deployment. Congratulations!