



How to flash BIOS from UEFI Bootable USB flash drive



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Revision History

Version	Release Date	Change Description
1.0	10/14/2015	1. First release

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1. Required Components

- 1.1. USB flash drive with FAT32 format.
- 1.2. UEFI Shell.efi



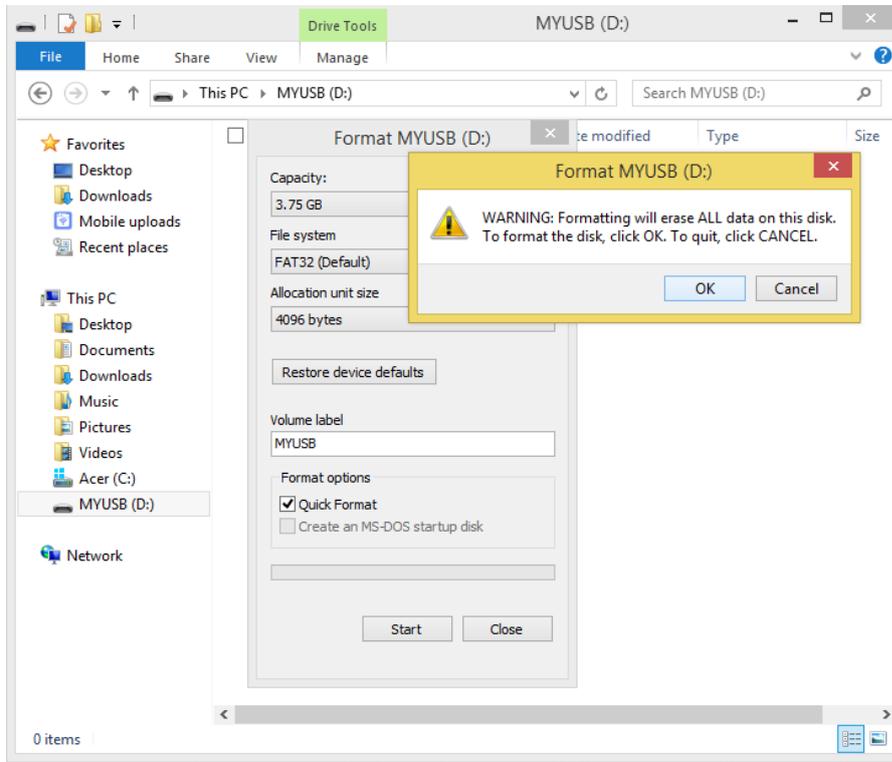
efi.7z

Password: acer

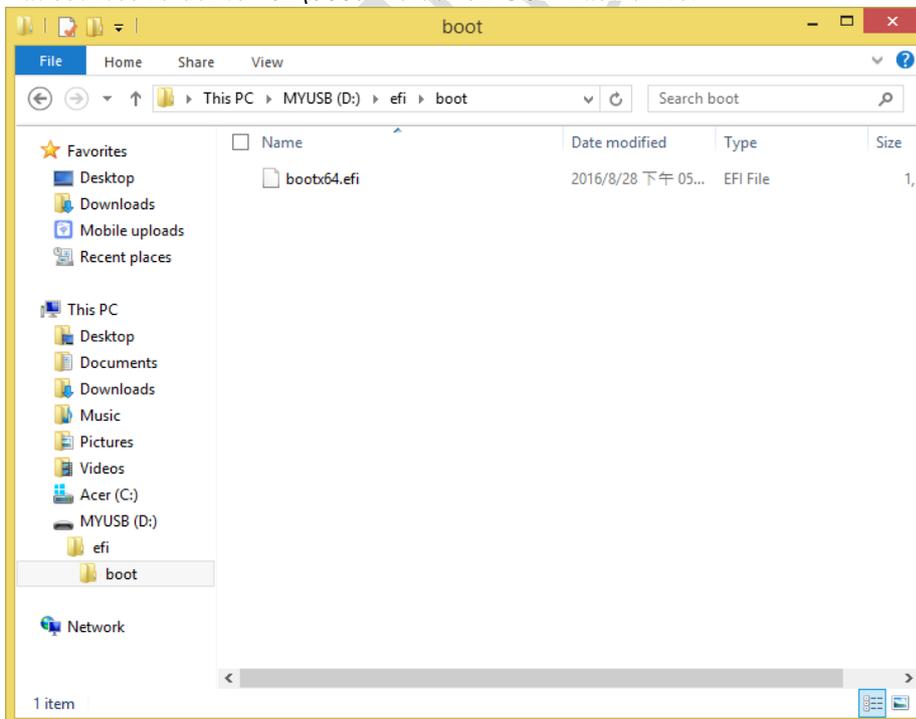
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2. Make UEFI bootable USB flash drive

- 2.1. Connect the USB flash drive to your computer.
- 2.2. Format USB flash drive with FAT32



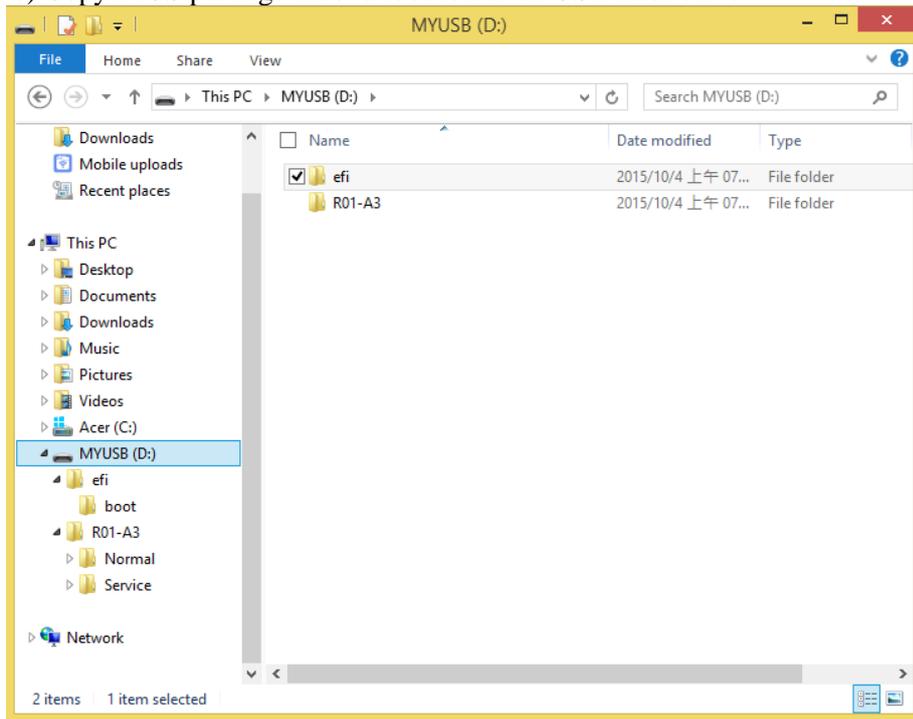
- 2.3. a) Create a new folder “efi\boot” on USB flash drive, then copy uefi boot file **bootx64.efi** at sources folder to “efi\boot” folder on USB flash drive.



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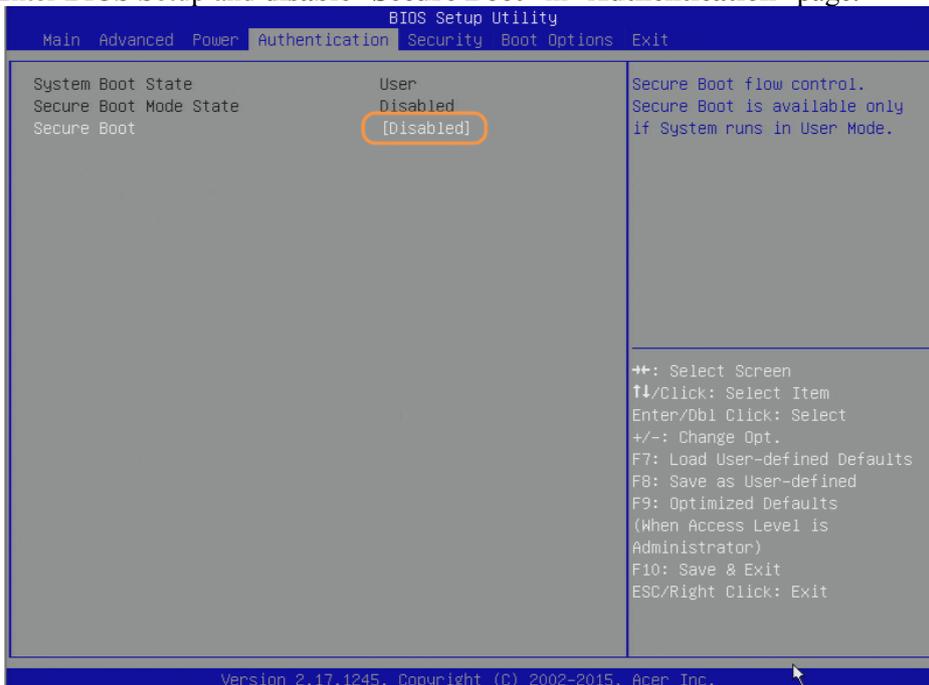
b) Copy BIOS package files to root folder on USB flash drive.



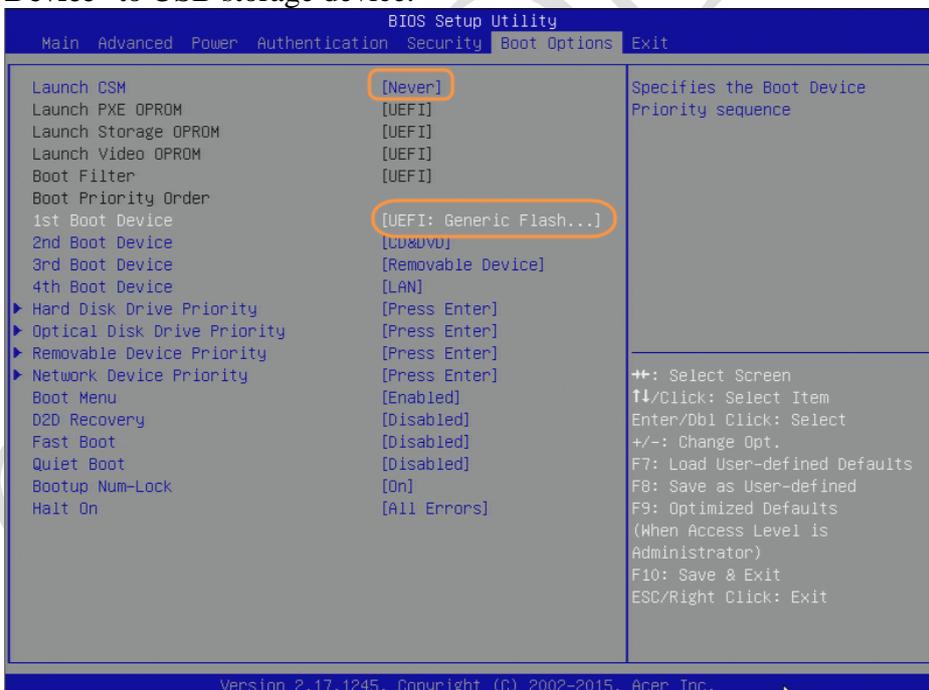


3. Flash UEFI BIOS SOP for SHELL

- 3.1. Plug in the bootable USB flash drive to USB port, power on the System.
- 3.2. Enter BIOS Setup and **disable “Secure Boot”** in **“Authentication”** page.



- 3.3. In **“Boot Options”** page, make sure **“Launch CSM”** option is **“Never”**, and select **“1st Boot Device”** to USB storage device.



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- 3.4. Press [F10] to save and exit Setup then boot to SHELL mode.
- 3.5. To access the USB flash drive containing the binaries, type “**Map -r**” and press Enter. The USB flash drive is now mapped as “**fs1**”. **Note that the numeric value will be determined based on the number of additional storage devices present in the system and may not be “fs1” in some cases.**

```
Shell> fs1:
fs1:\> dir
Directory of: fs1:\

09/01/15  05:36p <DIR>          4,096  efi
09/04/15  05:45p <DIR>          4,096  R01-A3
         0 File(s)
         0 bytes
         2 Dir(s)

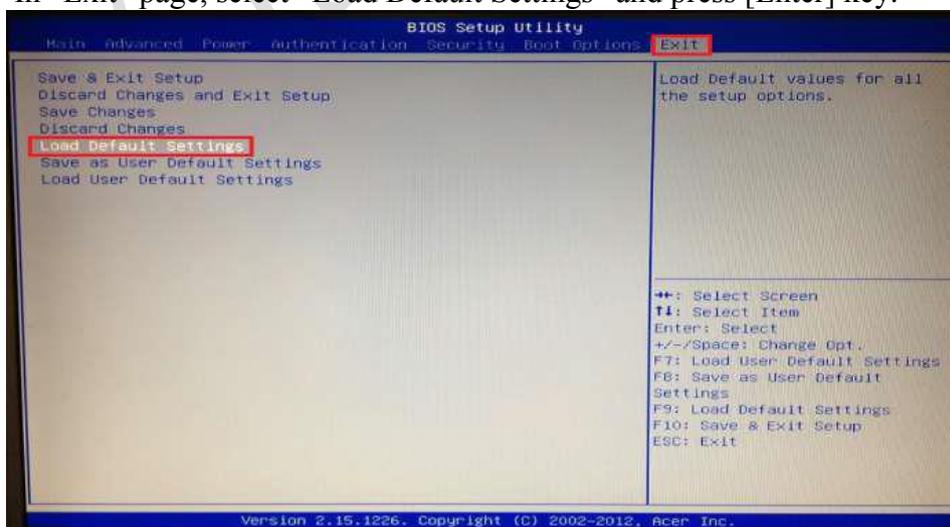
fs1:\> cd r01-a3\Service\efi
fs1:\R01-A3\Service\EFI\
```

- 3.6. Enter BIOS folder and follow your request to execute the corresponding **batch** file.

```
fs1:\R01-A3\Service\EFI\ flash
OFF
flash> AfuEfix64 ..\ROM\R01-A4.CAP /P /B /N /R
-----+-----
|               AMI Firmware Update Utility   v5.07.01               |
|               Copyright (C)2014 American Megatrends Inc. All Rights Reserved. |
|-----+-----|
Reading flash .....done
Secure Flash enabled, recalculate ROM size with signature ... Enable.
- FFS checksums .....ok
Loading capsule to secure memory buffer ... done
Erasing Boot Block .....done
Updating Boot Block .....done
Verifying Boot Block .....done
Erasing Main Block .....done
Updating Main Block .....done
Verifying Main Block .....done
Erasing NURAM Block .....done
Updating NURAM Block .....done
Verifying NURAM Block .....done

fs1:\R01-A3\Service\EFI\
```

- 3.7. After finishing flashing BIOS, please don't execute any programs and reboot (**Ctrl + Alt +Del**) the system directly.
- 3.8. After system reboot, please press [Del] to enter BIOS Setup.
- 3.9. In “Exit” page, select “Load Default Settings” and press [Enter] key.



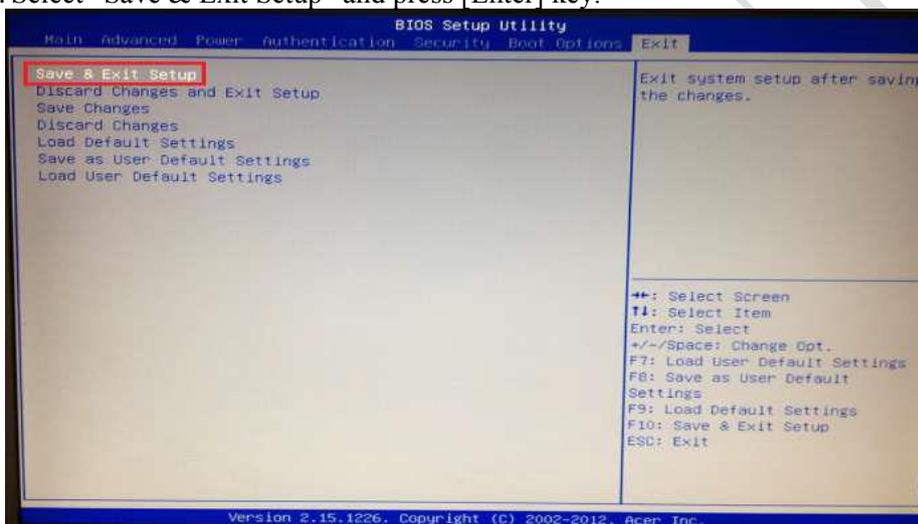
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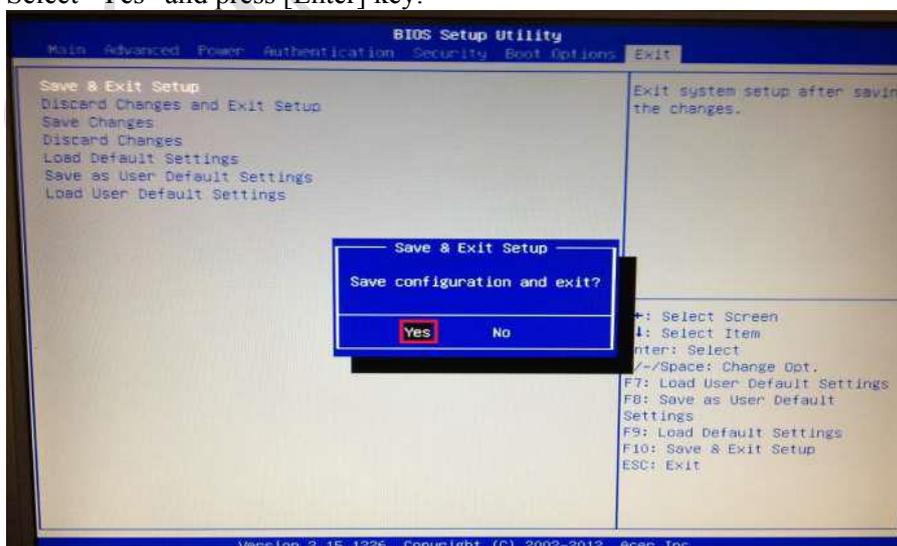
3.10. Select “Yes” and press [Enter] key.



3.11. Select “Save & Exit Setup” and press [Enter] key.



3.12. Select “Yes” and press [Enter] key.





3.13. Flash BIOS is finished.

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