

## Acer Aspire A515-56 - InsydeH2O Setup Utility Rev 5.0 Fully Unlock Settings Guide

### WARNING:

Modifying a Bios can be dangerous for your system and if done wrong it can leave it obsolete so I advise you to have a backup plan in case something goes wrong like a bootable USB.

1. Bios ver: 1.04 (11/02/2020)
2. Tools used:
  - [FPTW 15.0.30.1716](#) (Take into account that the FPTW folder you may need varies on the system. For more information download [HWINFO64](#) and click this [link](#) and go to the C2. section)
  - [UEFIToolNEA 59](#)
  - [HxD](#)
  - [IFRExtractor](#)
  - [H2OUVE](#)

First off we need to change some settings just in case. Go to your Bios and make sure there are **none** Set Supervisor Passwords and Boot mode is **UEFI**.

Now the process of getting the Bios. Go to Command Prompt and enter as administrator, input `cd + location of the folder FPTW 15.0.30.1716` , then input `FPTW64.exe -bios -d biosreg.bin`. Your Bios dump should appear in the folder

We also need to check if Bios Lock is enabled, go to UEFIToolNEA 59 and click the *Action* tab click *Search*, go to *Text* and search for "*Bios Lock*", then click the search result that says "*DriverSampleDxe*". Now you need to right-click and select "*Extract as is*", a file named "*Section\_PE32\_image\_DriverSampleDxe\_SetupUtility.sct*" should appear in the folder.

Now open the "*IFRExtractor*" and select the file we just got thanks to UEFITool, now another file named "*Section\_PE32\_image\_DriverSampleDxe\_SetupUtility IFR.txt*" will also appear. Open and search the words "*BIOS Lock*" and "*Flash Protection Range Registers*", if below *Bios Lock* you see "**One Of Option: Disabled, Value (8 bit): 0x0 {09 07 04 00 00 00 00}**" and in *Flash Protection Range Registers* you also see "**One Of Option: Disabled, Value (8 bit): 0x0 {09 07 04 00 00 00 00}**" then we need to make some changes if not skip the next paragraph.

To disable both "*Bios Lock*" and "*Flash Protection Range Registers*", go to the folder *H2OUVE*, click "*GET VARS.bat*", this will give you the vars of your Bios. Open "*vars.txt*" and search for "*PchSetup*", now look the variables that enable Bios Lock and *Flash Protection Range Registers*, in my case 1C and 683 respectively, you will be able to identify them by seeing the value next to "*VarStoreInfo (VarOffset/VarName):*" Now go to 1C and 683 and replace the 01 with 00, not done yet tho. Just in case, copy the GUID down below "*PchSetup*" , in my case "*4570B7F1-ADE8-4943-8DC3-406472842384*", and as we did it before replace the 1C and 683 values of 01 with a 00. Now save the changes, go to Command Prompt as administrator, and once again input `cd + location of the folder`

*H2OUIVE*” then input “*H2OUIVE.exe -sv vars.txt*”. This should save the changes that we made to the *vars*

Using UEFIToolNEA 59 again, go to the *Action* tab, click *Search*, go to *Text* and search for “*A01ODMDxe*”, the search results should appear down below. Right click “*PE32 image sectio...*” and select “*Extract as is*”. A file named “*Section\_PE32\_image\_A01ODMDxeDriver\_A01ODMDxeDriver*” should appear in the folder.

Go to HxD and open “*Section\_PE32\_image\_A01ODMDxeDriver\_A01ODMDxeDriver*”, click the *Search* tab, select “*Go to*” and write *16EA*. Now change the value to “*EB*” and save the changes. Finally go back to UEFIToolNEA 59 and replace the “*A01ODMDxeDriver*” *module* right click it and choose “*Replace as is*”, you must select the edited “*Section\_PE32\_image\_A01ODMDxeDriver\_A01ODMDxeDriver*” and save the changes.

After all this trouble now you have to just click “*FLASH.BAT*”

There may be some mistakes and some things left out but this should be enough for you to mod your Bios. I also hope that if you use InsydeH20 this guide may be helpful to you.