

Stone Desktops or All-In-Ones with Asus Motherboards - How to Legacy PXE Boot Windows 8.x systems

Scenario

You wish to boot your Windows 8.x (or Windows 10) Stone Desktop PC or All-in-one (AiO) machine using the in-built legacy PXE option firmware so that you may connect to your existing bootable network infrastructure for the purposes of operating system deployment.

Your system has been supplied to you from Stone with Windows 8 or above and when you attempt to use PXE boot you are unable to find the boot device in the F8 boot menu or in the boot device priority list within the system BIOS.

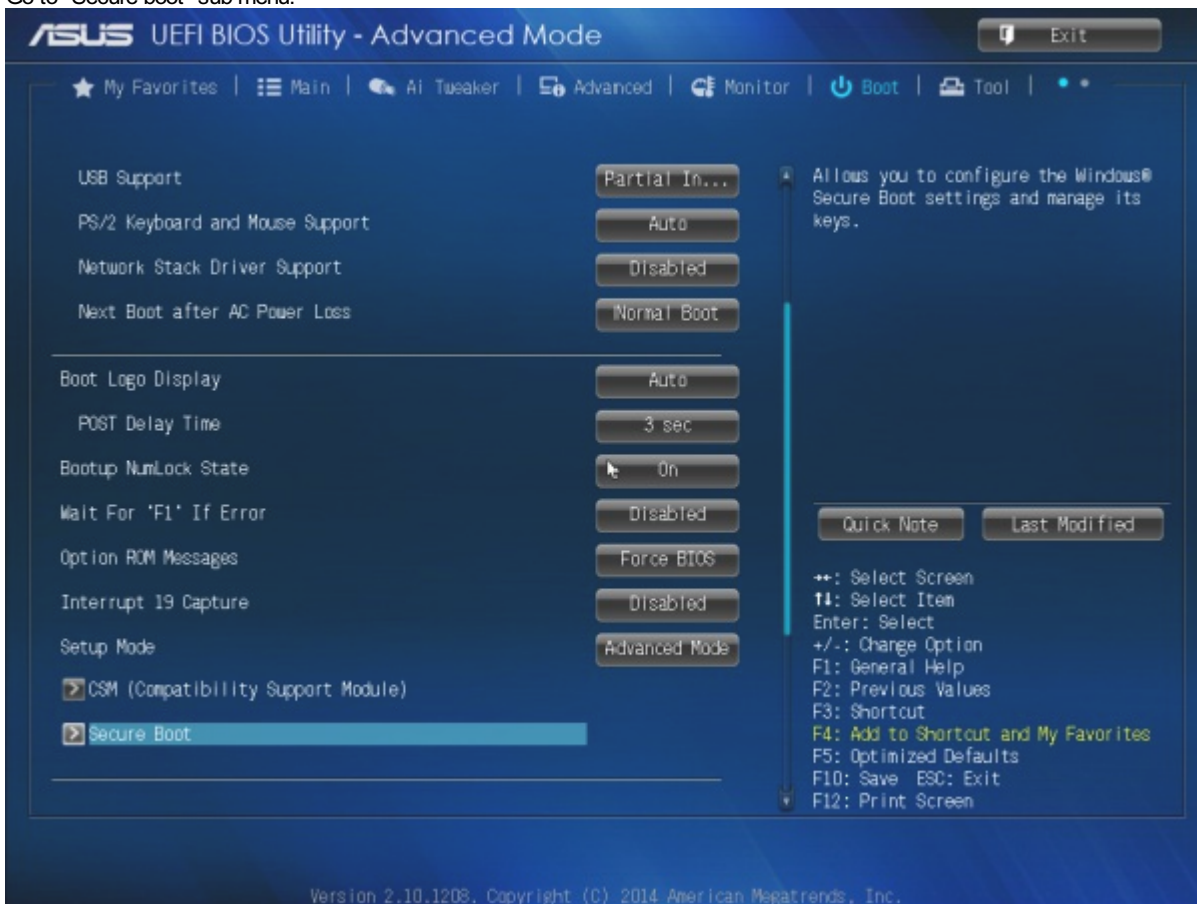
Cause

Windows 8.x (and 10) based machines must be shipped from the manufacturer with a BIOS feature called 'Secure Boot' enabled. This feature is intended to ensure that only authorised software can be booted on the host system.

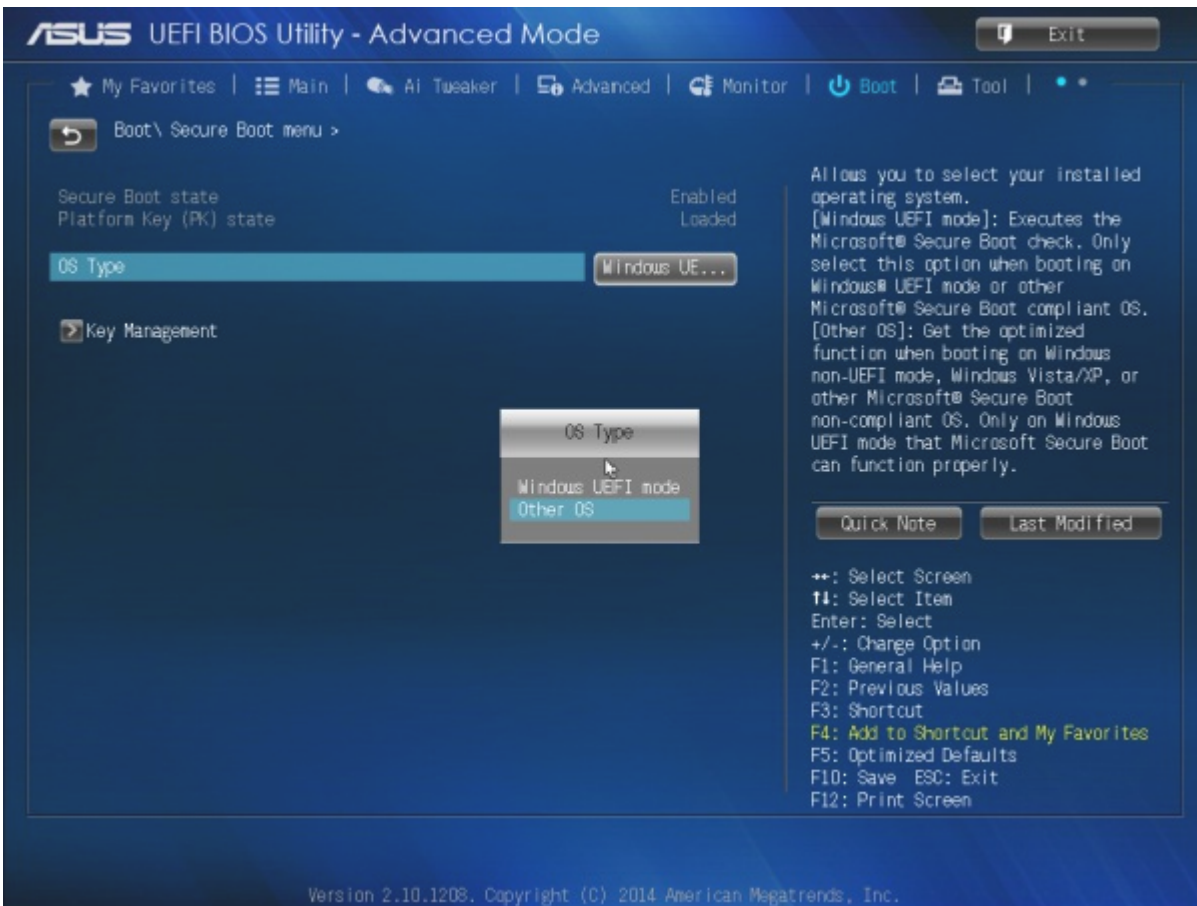
When Secure Boot is activated on a PC, the PC checks each piece of software, including the Option ROMs and the operating system, against databases of known-good signatures maintained in the firmware. If each piece of software is valid, the firmware runs the software and the operating system. This restricts the use of the Legacy PXE option ROM.

Resolution

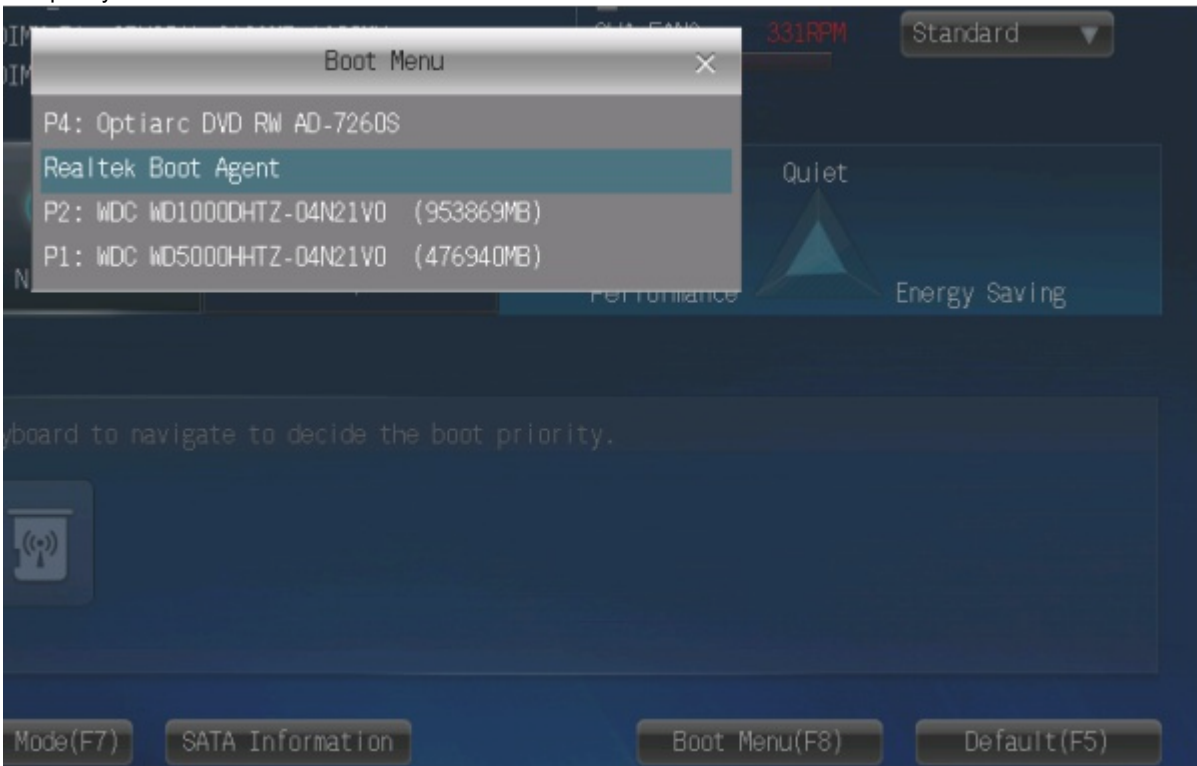
1. Boot the machine into the BIOS by tapping either F2 or DEL immediately after powering it on.
2. Go to the "Boot" section.
3. Go to "Secure boot" sub-menu.



4. Change 'OS type' from 'Windows UEFI mode' to 'Other OS'.



5. Exit the BIOS saving the changes
6. After the system restarts the Intel or Realtek (as shown in the image below) network boot agent will now be available in the F8 boot menu and boot priority list within the BIOS.



Note: This will not affect the systems ability to boot a UEFI based operating system installation.

Applies to:

- Stone PCs with Asus motherboards including but not limited to: H81T (BOAMOT-471), B85M-E (BOAMOT-463), CS-B (BOAMOT-467), Q87M-E (BOAMOT-473), H81M-P-SI (BOAMOT-476) and the Q87-T (BOAMOT-470). Asus Skylake based platforms using Intel 6th generation core i processors

Article ID: 424

Last updated: 26 Jul, 2016

Updated by: Paul Watkins

Revision: 8

Stone Branded Products -> Desktop PCs and All-in-One (AIO) -> Frequently Asked Questions (FAQ) -> Stone Desktops or All-In-Ones with Asus
Motherboards - How to Legacy PXE Boot Windows 8.x systems

<https://kb.stonegroup.co.uk/index.php?View=entry&EntryID=424>