



[Guide] Add HDEF/Clover

For Realtek ALC AppleHDA

Clover supports ML Realtek ALC AppleHDA.kext Audio ID Injection; no kext, dsdt or ssdt enabler required. <http://sourceforge.net/projects/cloverefiboot/>

audio_ALCInjection

toleda/audio_ALCInjection

Requirements

- OS X versions supported:
 - Mountain Lion/10.8.4 and newer
 - Mavericks/10.9 or newer
- Realtek ALC, one of the following Device_ID - Codec Name
 - 10ec0885 - ALC885/ALC889a
 - 10ec0887 - ALC887/ALC888b
 - 10ec0888 - ALC888/ALC888s
 - 10ec0889 - ALC889
 - 10ec0892 - ALC892
 - 10ec0899 - ALC898
 - 10ec0900 - ALC1150 - 10.8.5 or newer
- Supported Audio-IDs (Audio_ID = layout-id)
 - Audio_ID: 1 - 5/6 port Realtek ALC onboard audio and HD5K/AMD/Nvidia HDMI audio
 - Audio_ID: 2 - 3 port Realtek ALC onboard audio and HD5K/AMD/Nvidia HDMI audio
 - Audio_ID: 3 - 3/5/6 port Realtek ALC onboard audio and HD3K/HD4K/AMD/Nvidia HDMI audio
 - Audio_IDs: 1 and 2 support analog 5.1 surround sound, 3 does not
 - Audio_IDs: 1, 2 and 3 require HDMI audio dsdt edits/ssdts for HDMI audio
- Clover_v1597 or newer

Remove Enabler (if installed)

- Remove any audio enablers
 - kexts, S/L/E/HDAEnabler1.kext, HDAEnabler8--.kext, ALC8xxHDA.kext, etc.
 - dsdt, remove dsdt/HDEF/layout-id
 - ssdt, remove ssdt/HDEF/layout-id

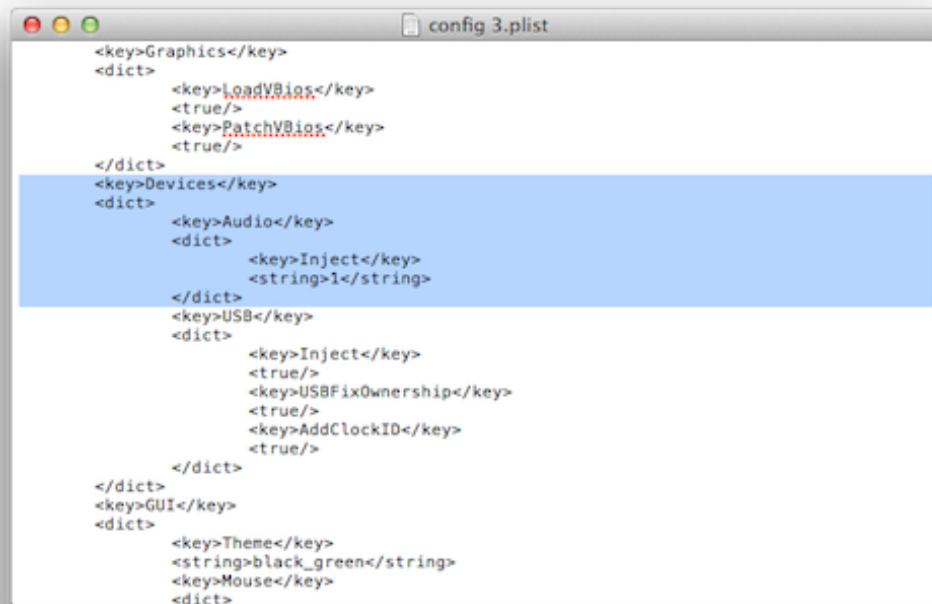
Tools

- IORegistryExplorer (use IOReg_v2.1: https://github.com/toleda/audio_ALCInjection/blob/master/IORegistryExplorer_v2.1.zip)

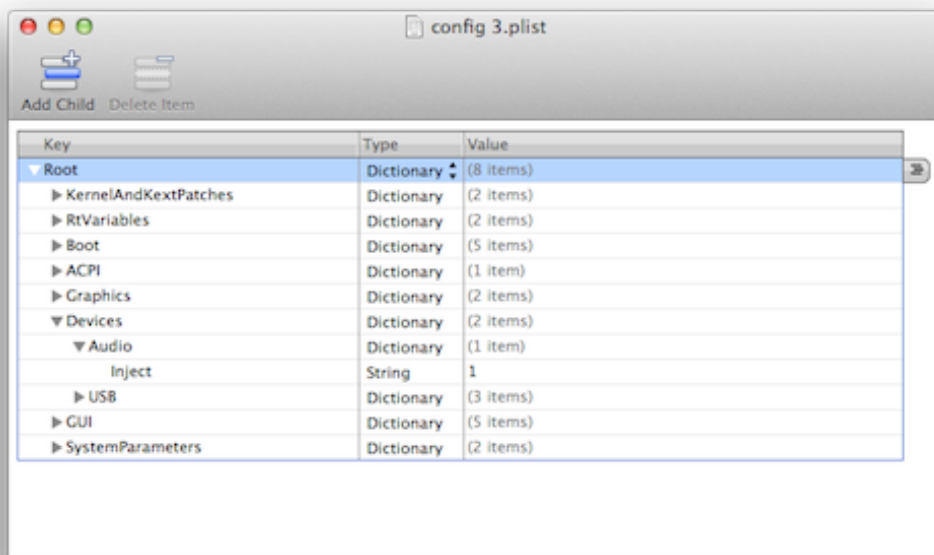
Clover_v2000+

Edit config.plist (EFI/CLOVER/config.plist or EFI/CLOVER/OEM/ProductName/config.plist)

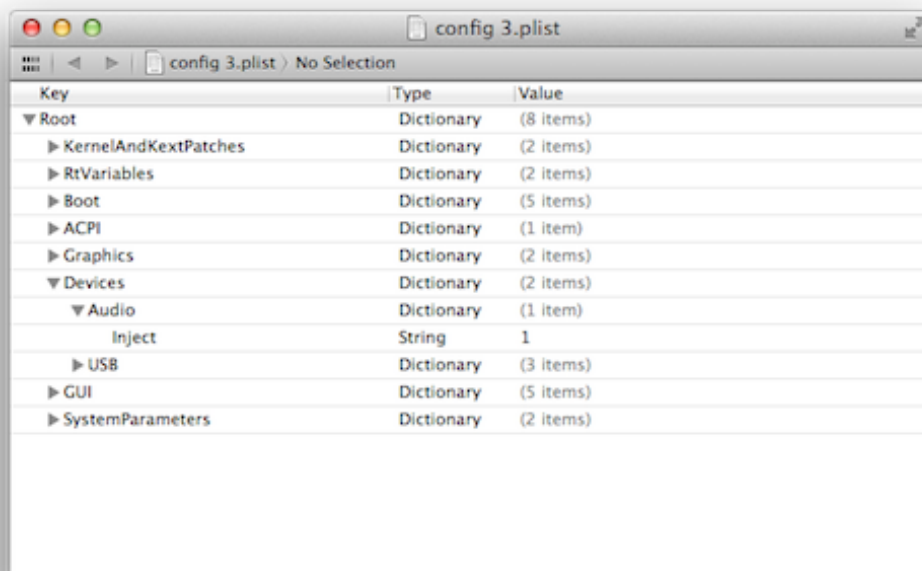
1. Determine Devices/Audio/Inject (from supported Audio_IDs above)
 1. Audio_ID = 1, Audio/Inject=1
 2. Audio_ID = 2, Audio/Inject=2
 3. Audio_ID = 3, Audio/Inject=3
2. Add config.plist/DevicesAudio/Inject/1, 2 or 3
3. Save
 1. TextEdit/config.plist



2. Property List Editor/config.plist



3. Xcode/config.plist



Clover (prior to v2000)

Edit config.plist (Clover/EFI/config.plist or Clover/EFI/OEM/ProductName/config.plist)

1. Determine HDAInjection (from supported Audio_IDs above)
 1. Audio_ID = 1, HDAInjection=1
 2. Audio_ID = 2, HDAInjection=2
 3. Audio_ID = 3, HDAInjection=3
2. Add config.plist/PCI/HDAInjectionHDAInjection/1, 2 or 3
3. Save

Verification

1. Restart
2. IORegistryExplorer
 1. Search: HDEF
 2. Locate: layout-id (right pane, scroll down)
 3. Verify:
 - <01 00 00 00> or
 - <02 00 00 00>

Troubleshooting

1. Realtek ALC AppleHDA Capabilities.pdf
2. Post to <http://www.insanelymac.com/forum/topic/290796-realtek-alc-applehda-audio-injection/>
3. Post to <http://www.tonymacx86.com/audio/76309-mountain-lion-multibeast-no-audio-solutions-problem-reporting.html>

Credits:

VCH888; [ALC889A, Gigabyte \(Intel\): now having a working front mic - Page 38 - Sound - InsanelyMac Forum](#)