

ATMEL-ICE VIRTUALBOX FILTERS

Ubuntu host, Windows 7 guest

Install the VirtualBox Extension Pack <https://www.virtualbox.org/wiki/Downloads> via File -> Preferences -> Extensions in the VM Manager Window. (I almost forgot this one, got a reminder about it here: <http://www.avrfreaks.net/forum/atmel-ice-debugger-usb-drivers-virtual-box>)

Then check if your user is part of group “vboxusers”, type “id” in a terminal window

That should result in something like this:

```
“uid=1000(youruser) gid=1000(youruser)
groups=1000(youruser),4(adm),24(cdrom),27(sudo),30(dip),46(plugdev),113(lpadmin),128(sambas
hare),132(vboxusers)”
```

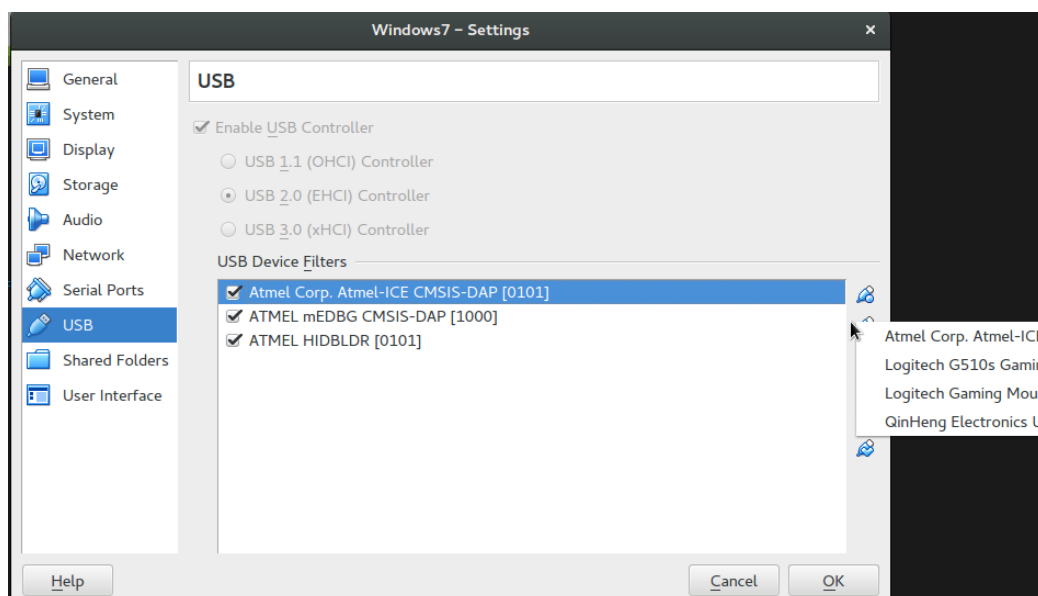
If you cannot see “vboxusers”, type “sudo usermod -a -G vboxusers \$USER”

This will let virtualbox access the USB ports without running it as root

Next you will have to add USB filters, so the guest os takes control over the programmer as soon as it is connected to the host computer

You first add one filter for the programmer itself, and if you must upgrade the firmware of the programmer you will have to go into settings and add another filter while AS is trying to bootload the programmer.

The top one here is ICE as programmer/debugger, ATMEL HIDBLDR is the one you have to add when attempting the firmware upgrade.



AS froze the first time I tried to upgrade, and it gave me some strange error message.

I just restarted AS and tried to upgrade again straight away, if I remember correctly I got around 30 seconds to get it connected before it timed out. I added the filter while the timer was running, and the upgrade went smooth.