

Re: Seagate 400GB drive reduced to 128GB after WinXP reinstall

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<http://www.tech-archive.net/Archive/WinXP/microsoft.public.windowsxp.hardware/2007-05/msg00328.html>

- *From:* Danny <Danny@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>
 - *Date:* Sun, 13 May 2007 19:29:00 -0700
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Anna, wanted to make sure you have seen my response. Thanks for the help.

I have some great news to share with everyone. I have recovered the full capacity of the Seagate 400GB drive. I want to thank all for their thought provoking comments. Here is what evolved.

JS's comments about the latest ASUS BIOS upgrade and Promise Controller driver didn't register with me because I had already flashed the latest BIOS update. Unfortunately, I didn't pursue the onboard Promise Controller driver because I hadn't changed the driver, and I had XP SP2 installed. I figured the driver was okay.

Next, I want to apologize to Anna and thank Anna at the same time. When Anna said that all I needed was the latest motherboard BIOS and XP SP2, I thought, "...Anna, I have that and it doesn't work..." However, I kept that in mind, albeit, frustratingly so.

I followed JS's advice and went to www.driverstock.com and ran a test on my system. I was surprised to find that not only did it report that the Promise Controller driver needed updating, but there were some other drivers that needed updating. This website was quite helpful.

I updated the onboard Promise Controller driver, restarted the system, looked in Computer Management/Disk Management, and found my original 128GB partition and 244GB of available space. Just because I am skeptical, I created a new partition in the available space with no problems.

In review, always look for the things you don't suspect, like an onboard controller driver that you have not changed but is corrupted. Also, keep in mind that BIOS updates and onboard controller drivers must be investigated separately. I was surprised that I could install XP from the original XP (no SP1/SP2) disk, later install SP2, and have XP SP2 recognize the full capacity of the drive. I am one happy camper today.

Thanks to all for their help in this matter

"Anna" wrote:

Re: Seagate 400GB drive reduced to 128GB after WinXP reinstall

"Danny" <Danny@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message
news:C1A614DA-9663-4DED-BF03-A3D53942A569@xxxxxxxxxxxxxxxxxxxx

I installed a 400GB drive as a secondary drive on a WinXP SP2 system as a single 372GB NTFS partition that I used as backup storage. I later reinstalled XP, but did not disconnect the 400GB drive before the new installation. XP recognized the 400GB drive as a single 128GB partition. Even after installing SP2, I could not get the full capacity of the drive back.

Since that time I have read this discussion group and have tried all of the things that I have read but still have the problem. If everyone will bear with me, I would like to go through everything again to make sure I am not missing anything.

Here are things that I have done. I have slipstreamed a disk with SP2 and my XP original disk, installing this on a newly NTFS partitioned 80GB drive, then installed the 400GB drive as a second storage drive, used Seagate DiscWizard for Windows to partition the drive with one NTFS partition (also tried multiple NTFS partitions). XP still said the drive was 128 GB. I have a ASUA A7V133 motherboard with upgrade BIOS 1010B. The motherboard has Primary IDE, Secondary IDE, Primary ATA100, Secondary ATA100 connectors. I have a CD ROM connected to the Primary IDE channel, nothing connected to the Secondary IDE channel, Western Digital 80GB drive on the Primary ATA100 channel, and on the Secondary ATA100 channel a Maxtor 27GB drive was the master and the Seagate 400GB drive was the slave drive (I have also tried changing the positions of the drives to no avail). I had XP SP2 installed on the 80GB and 27GB drives and could boot from either one (this configuration worked fine until the reinstallation of XP).

When I boot the 80GB, 27GB, 400GB system, during the BIOS screens, I see D0 as 80GB, D1 is blank, D2 is 27GB, D3 is 372GB. Seagate DiscWizard for Windows sees the full size of the drive and all NTFS

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partitions.

I do not have the 400GB drive jumpered for 128GB operation.

I have deleted the IDE drivers and reinstalled as mentioned in one thread.

I have deleted the motherboard Promise IDE controller driver and reinstalled.

I have tried using XP Disk Management to reformat the drive as mentioned also.

I have erased the 400 GB drive using a DiscWizard boot floppy, then connected the 400GB drive to a XP SP2 system, drive doesn't appear in Explorer, gone to Disk Management, Initialized disk, formatted disk, disk is still shown to be 128GB.

I have now started from square one. I installed XP from my original disk onto the 400GB drive attached to the Primary ATA100 channel. The BIOS screens show the drive on D0 as 372GB. Partitioned drive as 128GB NTFS partition – only choice I had with original XP installation disk. I have installed all of the recommended updates, including SP2, from the Windows Update website. I still only see a 128GB partition in the Disk Management window even though one thread said that after installing SP2, I should be able to right click on the available space on the drive and make new partitions.

Does anyone know where I can look in WinXP SP2, I can look to see what is going on? I have looked in the registry for the EnableBigLba value.

There

is no HKEY_LOCAL_MACHINE entry for it, but I believe that somewhere in the

discussions I have read that it is not necessary in SP2. I appreciate anyone's help.

Danny:

I assume you know that there are two – and only two – requirements for the XP OS to recognize the full capacity of large–capacity disks, i.e., disks > 137 GB (approx 128 GB binary)...

1. The motherboard's BIOS must support large–capacity disks; and
2. The XP installation CD must contain SP1 and/or SP2 at the time the OS is installed and the large–capacity disk is present in the system.

That's it. Those two requirements.

From what you've indicated it appears your ASUS motherboard does support large–capacity disks.

You say you installed XP from your "original disk" when that 400 GB HDD was connected. It appears from your description of events that the XP installation CD you used at that time did *not* include either SP1 or SP2.

Is that right? If so, that would account for the fact that only 128 GB of that disk was originally recognized. When you later installed SP2

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(presumably) the full capacity of that HDD (approx 372 GB) would be recognized, however, the disk space above the 128 GB originally detected would (or should) be reflected as "unallocated space" in Disk Management; disk space that you can partition & format.

Are you indicating that Disk Management does not show that "unallocated space"? Should that be the case – you're sure of that – what I would suggest is to use Disk Management to delete the present 128 GB partition, reboot the machine and using DM (that hopefully now reflects the full capacity of that disk) partition & format the 400 GB HDD as you please. All this presupposes that there's either no data on that 400 GB HDD or if so, any data that you need. And again, it assumes your BIOS supports large–capacity disks and your XP OS contains SP1 and/or SP2.

Anna