

# REPAIRING RAID CONFIGURATIONS

You may need to recreate the Mirrored and/or RAID 5 volumes if a disk should fail.

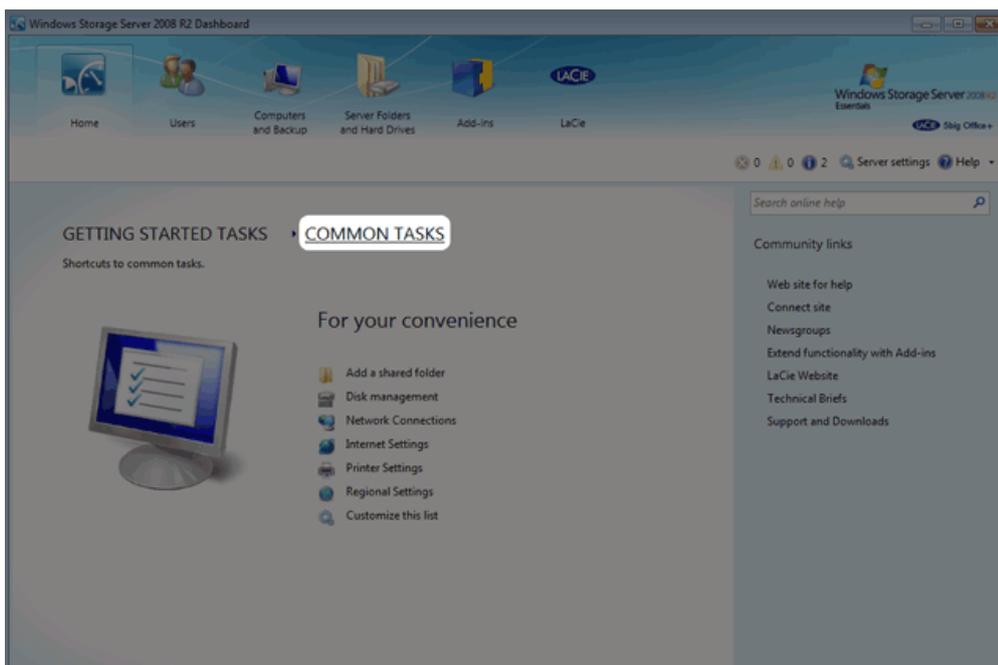
**Important info:** In the event that an individual hard disk fails in the 5big Office/Office+, contact your LaCie reseller or LaCie Customer Support for technical assistance. If the problem drive was purchased from LaCie and it is within the warranty period, please replace it with a hard drive provided by LaCie. LaCie will not replace a non-LaCie hard drive or any hard drive purchased from a third party. Please note that the replacement disk capacity should be equal to the original disk. While you may use a disk with more capacity, RAID configurations only recognize the size of the original disk.

## REPAIRING THE MIRRORED AND RAID 5 VOLUMES AFTER A DISK FAILURE

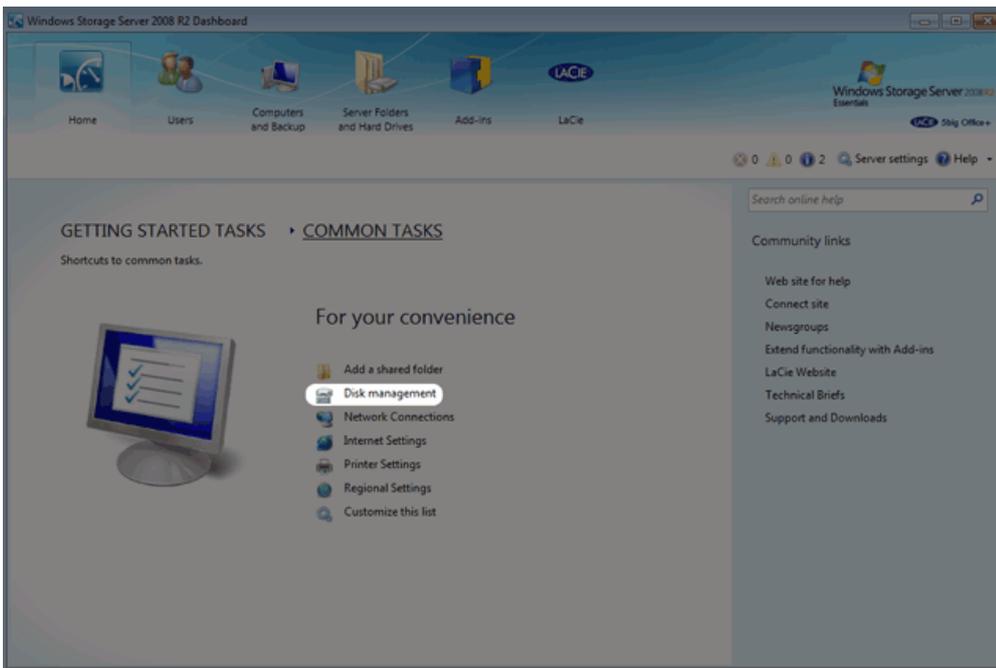
The steps below will illustrate how to repair Mirrored and RAID 5 volumes following disk failure. Partitions from the failed hard drive, Disk 1, had been tied to each volume.

Use Disk Management to repair or change RAID configurations in Windows:

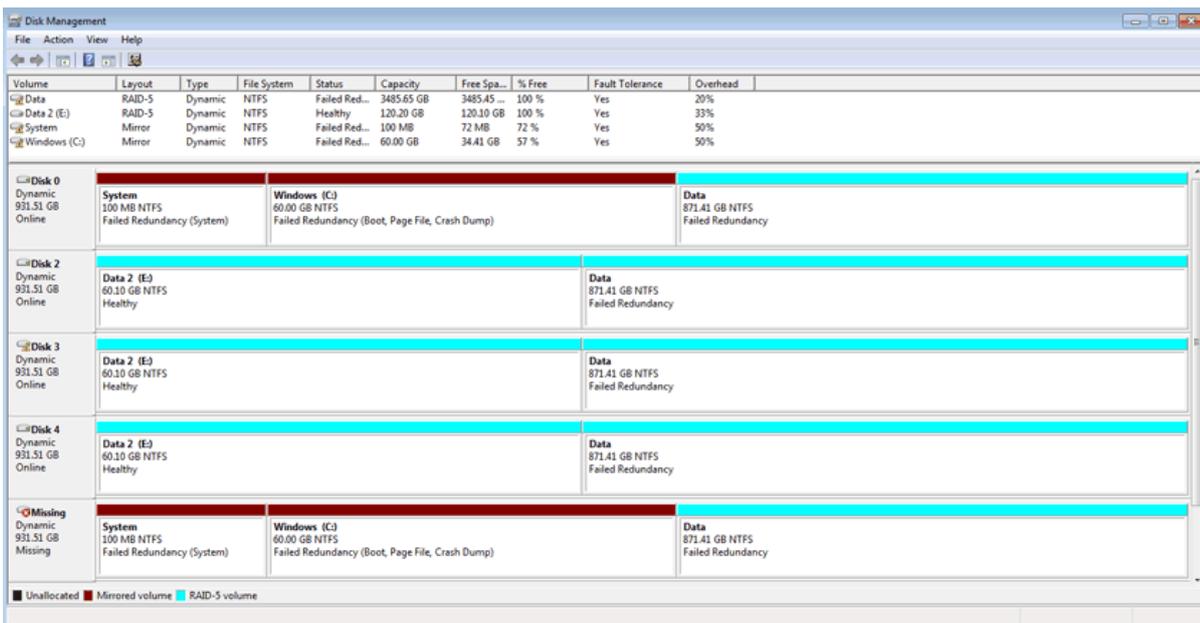
1. Launch the Dashboard from a Windows workstation on the same network as your LaCie 5big Office/Office+.  
**Start > All Programs > Windows Home Server 2011/Windows Storage Server 2008 R2 > Windows Home Server 2011 Dashboard/Windows Storage Server 2008 R2 Dashboard**
2. Select the **Home** tab.
3. Click once on **COMMON TASKS**.



4. Click once on **Disk Management**.



5. Note that Disk 1 is Missing and that both the Mirrored and RAID 5 volumes have *Failed Redundancy*.



6. Remove the failed Disk 1 and insert the replacement. See [Removing and Installing Disks](#) for instructions on adding new drives into the 5big enclosure.

7. The replacement disk is listed as *Unallocated*.

<b>Disk 0</b> Dynamic 931.51 GB Online	<b>System</b> 100 MB NTFS Failed Redundancy (System)	<b>Windows (C:)</b> 60.00 GB NTFS Failed Redundancy (Boot, Page File, Crash Dump)	<b>Data</b> 871.41 GB NTFS Failed Redundancy
<b>Disk 1</b> Basic 931.51 GB Online	931.51 GB Unallocated		
<b>Disk 2</b> Dynamic 931.51 GB Online	<b>Data 2 (E:)</b> 60.10 GB NTFS Healthy	<b>Data</b> 871.41 GB NTFS Failed Redundancy	
<b>Disk 3</b> Dynamic 931.51 GB Online	<b>Data 2 (E:)</b> 60.10 GB NTFS Healthy	<b>Data</b> 871.41 GB NTFS Failed Redundancy	
<b>Disk 4</b> Dynamic 931.51 GB Online	<b>Data 2 (E:)</b> 60.10 GB NTFS Healthy	<b>Data</b> 871.41 GB NTFS Failed Redundancy	
<b>Missing</b> Dynamic 931.51 GB Missing	<b>System</b> 100 MB NTFS Failed Redundancy (System)	<b>Windows (C:)</b> 60.00 GB NTFS Failed Redundancy (Boot, Page File, Crash Dump)	<b>Data</b> 871.41 GB NTFS Failed Redundancy

■ Unallocated ■ Mirrored volume ■ RAID-5 volume

8. The mirror must be broken before rebuilding it with the replacement disk. Right-click on the **System** volume to select **Remove Mirror...**

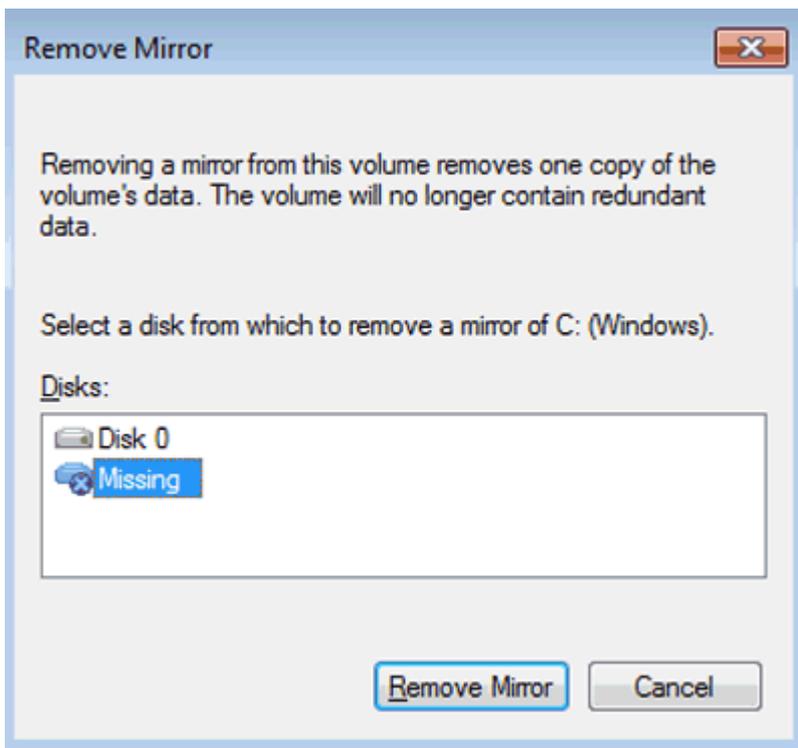
<b>Disk 0</b> Dynamic 931.51 GB Online	<b>System</b> 100 MB NTFS Failed Redundancy (System)	<b>Windows (C:)</b> 60.00 GB NTFS Failed Redundancy (Boot, Page File, Crash Dump)	<b>Data</b> 871.41 GB NTFS Failed Redundancy
<b>Disk 1</b> Basic 931.51 GB Online	931.51 GB Unallocated		
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<b>Disk 4</b> Dynamic 931.51 GB Online	<b>Data 2 (E:)</b> 60.10 GB NTFS Healthy	<b>Data</b> 871.41 GB NTFS Failed Redundancy	
<b>Missing</b> Dynamic 931.51 GB Missing	<b>System</b> 100 MB NTFS Failed Redundancy (System)	<b>Windows (C:)</b> 60.00 GB NTFS Failed Redundancy (Boot, Page File, Crash Dump)	<b>Data</b> 871.41 GB NTFS Failed Redundancy

■ Unallocated ■ Mirrored volume ■ RAID-5 volume

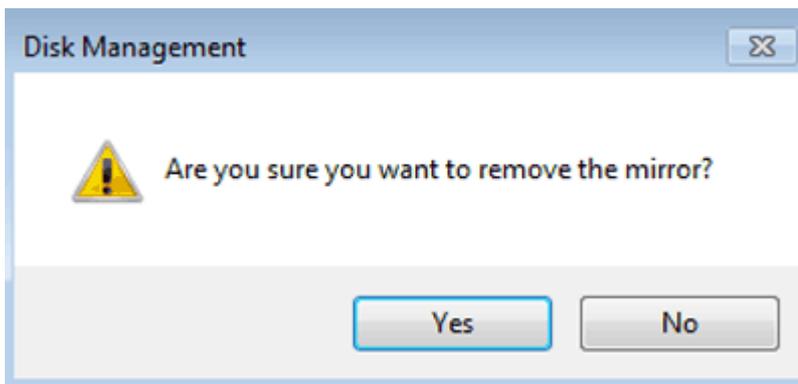
**Remove**

### Remove Mirror - System

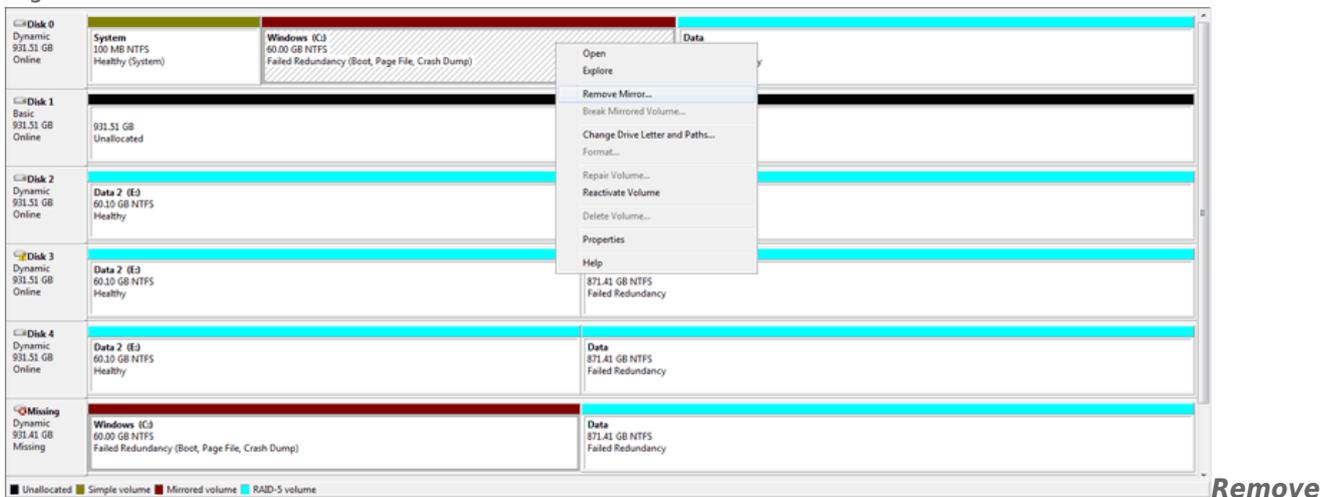
9. In the *Remove Mirror* pop-up window, select **Missing**. Click **Remove Mirror**.



10. Click **Yes** at the Disk Management prompt.

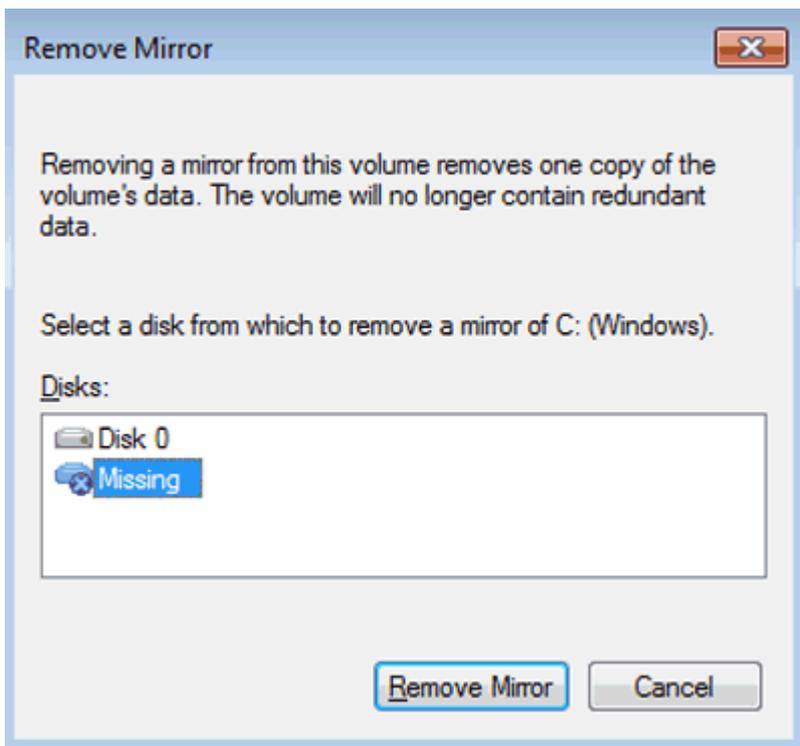


11. Right-click on the **Windows** volume to select **Remove Mirror...**

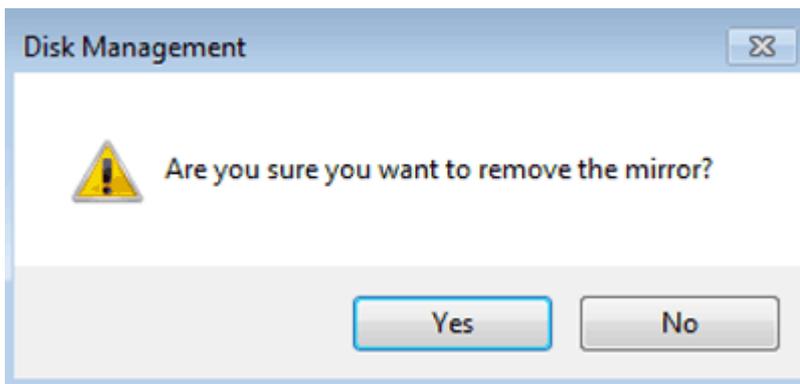


**Mirror - Windows**

12. In the *Remove Mirror* pop-up window, select **Missing**. Click **Remove Mirror**.



13. Click **Yes** at the Disk Management prompt.



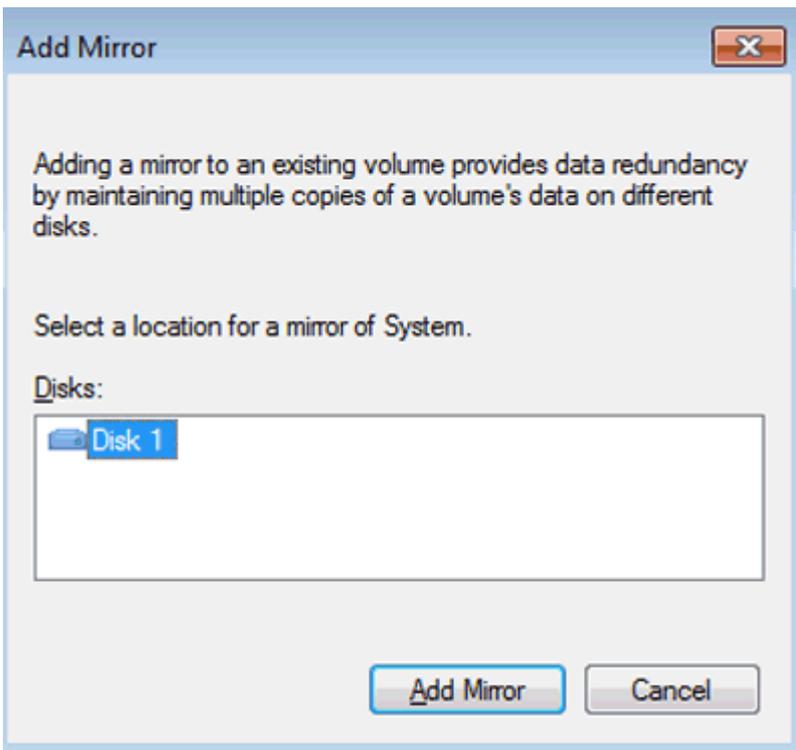
14. The mirror has been successfully removed.



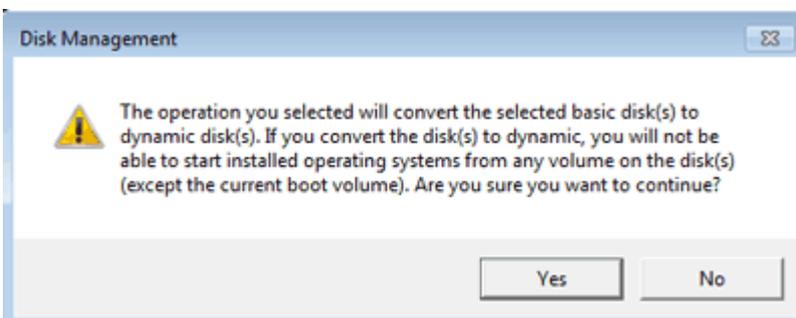
15. Right-click on the **System** partition to select **Add Mirror...**



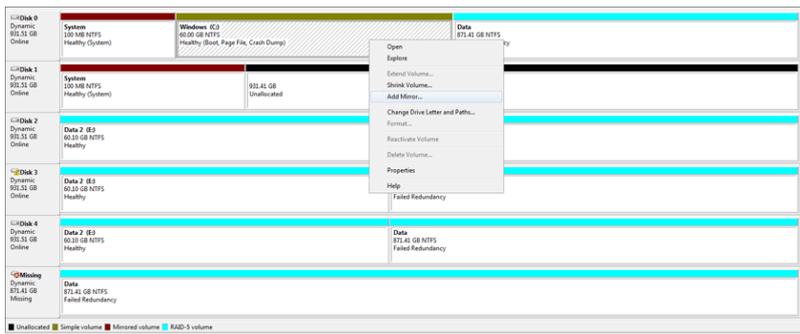
16. From the *Add Mirror* pop-up window, select your replacement disk (in this example, **Disk 1**). Click **Add Mirror**.



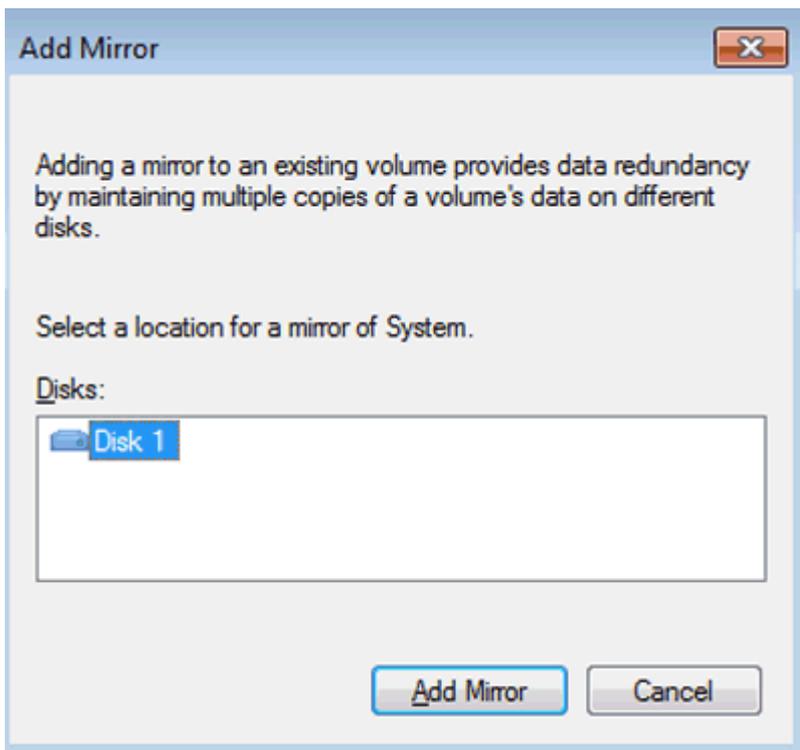
17. Click **Yes** at the Disk Management pop-up window.



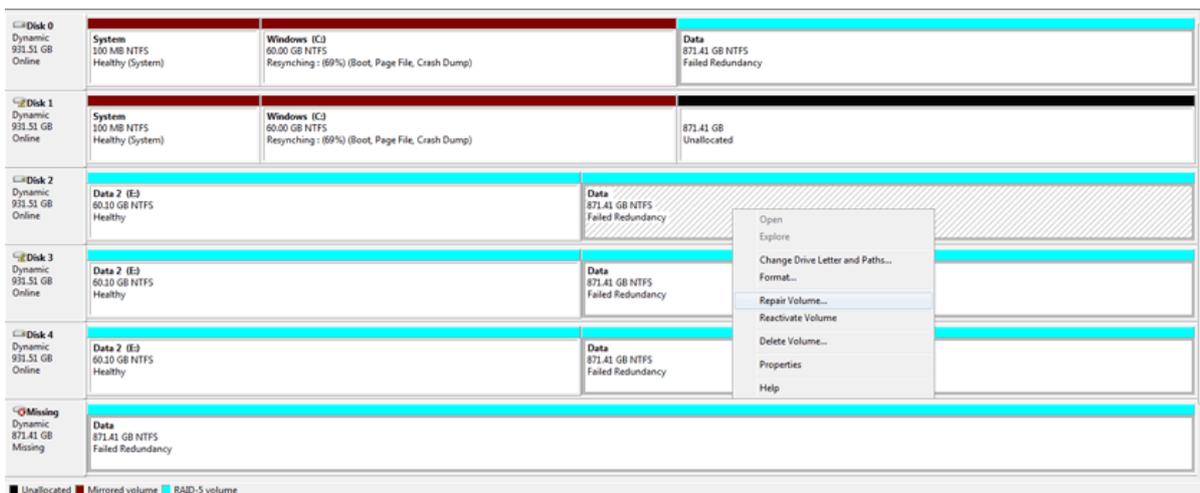
18. Right-click on the **Windows** partition to select **Add Mirror...**



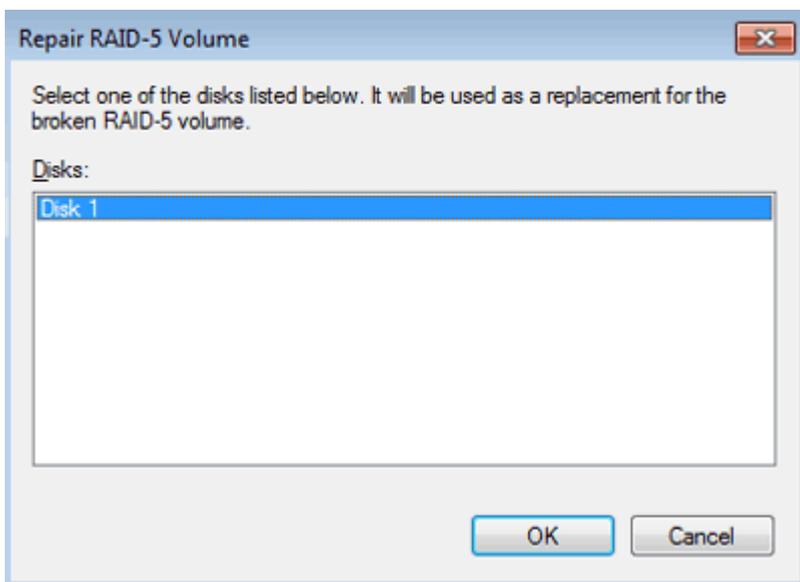
- From the *Add Mirror* pop-up window, select your replacement disk (in this example, **Disk 1**). Click **Add Mirror**.



- Disk Management will begin resynching the Windows Mirror. To save time, you may resync the Data RAID 5 volume while the Windows Mirror is building.
- Right-click on one of the **Data** partitions (do not use the *Missing* disk). Choose **Repair Volume...**



22. In the *Repair RAID-5 Volume* window, choose the disk to repair the Data volume (in our example, **Disk 1**). Click **OK**. The Data volume will start resynching. Please be patient since it will take 15 to 40 hours to resync the RAID 5 volume, depending upon the capacity.



## REMOVING THE MISSING DISK

Disk Management must be told to remove the *Missing* disk once resynching has begun. Follow the easy steps below to delete the *Missing* disk from the list of drives.

1. If you have not closed Disk Management after following the steps to repair the Mirrored and RAID 5 volumes, the *Missing* disk may be listed as a member of the Data volume.
2. Go to the the **Action** pulldown menu and choose **Refresh (Action > Refresh)** to refresh the list of drives. If the *Missing* disk is still listed as Data, exit and relaunch Disk Management.
3. The Missing disk will remain in the list of Disk Management disks. However, it should no longer be a part of the Data volume.
4. Right-click on **Missing** to select **Remove Disk**.



5. The *Missing* disk should now be removed from the **Disk Management** list.

