

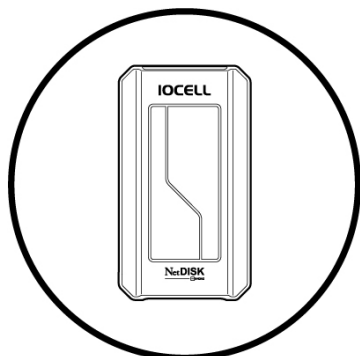
# User Manual for NetDISK

## ( Installation of NDAS Software Version 3.4x)

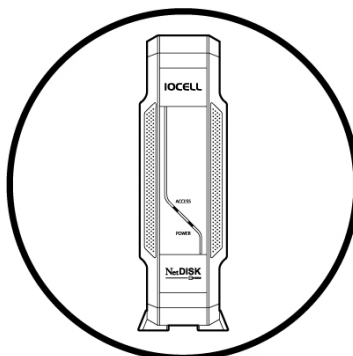
---

### For Microsoft Windows Only

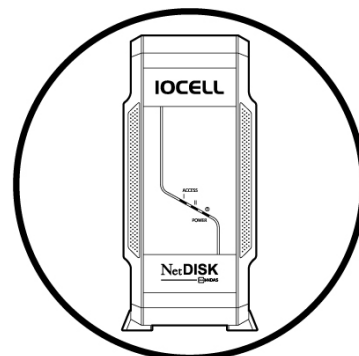
Windows 2000  
Windows XP  
Windows XP x64 Edition  
Windows Server 2003  
Windows Server 2003 x64 Edition  
Windows Vista  
Windows Vista x64 Edition



251UN



351UNE



352ND



## **XIMETA, Inc.**

161 Whitney Place  
Fremont, CA 94539  
United States of America

### **Software Release Statement**

User Manual for Microsoft Windows. Software Version 3.4x, released 2008, made in the U.S.A.

### **Trademark Statement**

**NetDISK®**, **NDAS®** and **XIMETA, Inc.** are trademarks of XIMETA, Inc., registered in the U.S.A and other countries. All other trademarks are the property of their respective owners.

### **Copyright Statement**

Copyright © 2003 - 2008 XIMETA, Inc. All rights reserved. Reproduction, translation, transformation or adaptation in any manner without prior written permission of XIMETA, Inc. is strictly prohibited.

### **License Statement**

The software described in this document is furnished under a license agreement. The software may be used only in accordance with the terms of the license agreement.

### **Warranty Statement**

XIMETA, Inc. reserves the right to revise this publication and to make changes to the content hereof without the obligation of XIMETA, Inc. to notify any person of such revision or changes. XIMETA, Inc. provides this publication “as is” without warranty of any kind, either expressed or implied, including but not limited to the implied warranties of merchantability or fitness for a particular purpose.

### **Product Warranty**

Please see Chapter 13 for complete product warranty coverage.

## Table of Contents

<b>1</b>	<b>Introduction .....</b>	<b>8</b>
1.1	User Manual .....	8
1.2	Package Contents .....	8
1.3	System Requirements .....	9
1.4	NDAS Device Setup Overview .....	9
<b>2</b>	<b>Cable Installation .....</b>	<b>10</b>
2.1	NDAS Mode .....	10
2.2	USB Mode .....	10
<b>3</b>	<b>NDAS Software Installation .....</b>	<b>12</b>
3.1	Installing NDAS 3.4x Software .....	12
<b>4</b>	<b>NDAS Device Registration .....</b>	<b>17</b>
4.1	Add/Register a New NDAS Device Using The Registration Wizard .....	17
4.2	Mounting a NDAS Device .....	23
4.3	Using NDAS Device .....	26
4.4	Sharing NDAS Device .....	27
<b>5</b>	<b>Introduction To NDAS Device Manager .....</b>	<b>28</b>
5.1	NDAS Device Status Mode .....	28
5.2	NDAS Device Management .....	29
<b>6</b>	<b>NDAS Device Functions .....</b>	<b>30</b>
6.1	NDAS Device Management .....	30
6.2	Changing From Read/Write to Read-Only Mode .....	33
6.3	Changing From Read-Only to Read/Write Mode .....	35
6.4	Using NDAS Device Properties .....	37
6.4.1	General .....	37
6.4.2	Hardware .....	38
6.4.3	Hosts .....	39
6.4.4	Advanced .....	40
<b>7</b>	<b>Introduction to NDAS Bind Management .....</b>	<b>42</b>
7.1	About NDAS Bind.....	42
7.2	NDAS Bind Management.....	43
7.3	Before bind.....	43
7.4	Creating Mirror without destroying data .....	44
7.5	Creating new bind.....	52
7.6	Using bound devices.....	54
7.7	Migrate from previous version of the NDAS software.....	58
7.8	Unbind.....	59
7.9	Managing Bind .....	60
7.9.1	Add Spare Disk.....	60
7.9.2	Reset Bind Information .....	62
7.9.3	Replace Device .....	63
7.9.4	Clear Defective Mark .....	64
7.9.5	Configure RAID without this disk .....	64
7.10	NDAS Bind Terms.....	65
<b>8</b>	<b>Formatting NDAS device .....</b>	<b>66</b>
8.1	Initialize NDAS Device .....	66
8.2	Partitioning NDAS device.....	68
8.3	Format NDAS Device Through My Computer .....	72
<b>9</b>	<b>Uninstall.....</b>	<b>74</b>
<b>10</b>	<b>NDAS Command Line Utility .....</b>	<b>75</b>
<b>11</b>	<b>FAQ .....</b>	<b>76</b>
11.1	General .....	76
11.2	Windows 2000/XP/Vista.....	77
11.3	USB.....	82
<b>12</b>	<b>Regulatory Statement .....</b>	<b>83</b>
<b>13</b>	<b>Product Warranty .....</b>	<b>84</b>
<b>14</b>	<b>Additional Information And Assistance .....</b>	<b>87</b>



# 1 Introduction

## **Congratulations on your purchase of the NetDISK.**

(Note: From this point forward, NDAS device will be used as the same meaning of NetDISK unless otherwise noted.)

Network storage via Ethernet made possible through NDAS technology!

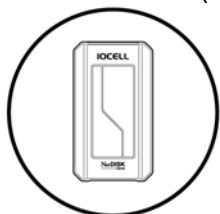
## 1.1 User Manual

This User Manual is intended to help you install your NDAS device quickly and easily onto your Personal Computer or Ethernet Network and begin using it immediately.

## 1.2 Package Contents

The following items are included in the NDAS device packages: (items varies with model)

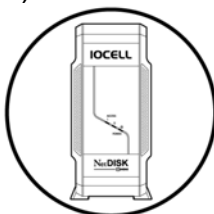
- NDAS device (Picture varies with model)



251UN



351UNE



352ND

- Software Installation CD



- Ethernet Cable / USB Cable

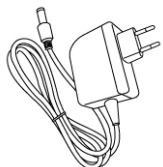


Ethernet Cable

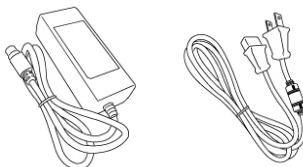


USB Cable

- Power Adapter and Power Cord



NetDISK 251UN



NetDISK 351UE / 351UNE / 352ND

## 1.3 System Requirements

### Supported Operating Systems

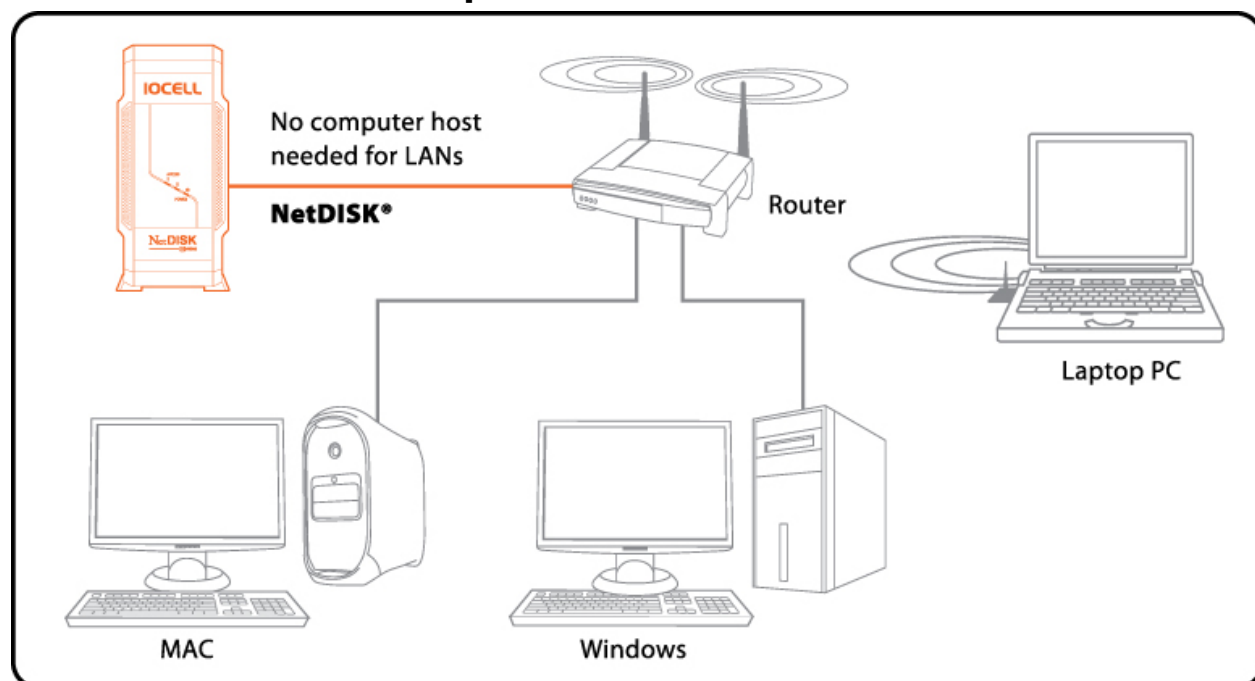
- Microsoft Windows 2000
- Microsoft Windows XP
- Microsoft Windows XP x64 Edition
- Microsoft Windows Server 2003
- Microsoft Windows Server 2003 x64 Edition
- Microsoft Windows Vista x64
- Microsoft Windows Vista x64 Edition

### Required Hardware

- 500 MHz Pentium III or higher
- 512 MB RAM (1 GB recommended)
- USB 2.0 Port
- CD-ROM drive for installation
- 10/100/1000 Base-T full duplex switch for NDAS mode
- Gigabit Ethernet switch and Gigabit Ethernet network card mode are recommended for NDAS Device Giga

**Note:** NDAS devices cannot be used with any type of Hub.

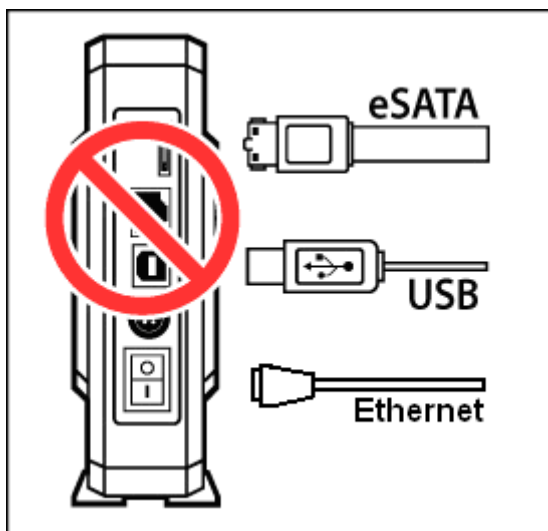
## 1.4 NDAS Device Setup Overview



## 2 Cable Installation



**Warning:** Do not connect USB, Ethernet, and eSATA cable at the same time. Only one cable should be connected, otherwise it will cause the driver malfunctioning.



### 2.1 NDAS Mode

**Note:** NDAS software does need to be installed on each computer in order to use in NDAS (Ethernet) mode.

1. If your NDAS device has dip switches on the rear panel, flip both dip switches down.
2. Connect the enclosed Ethernet cable from the Ethernet port on NDAS device to a switch.

**Wireless users:** Connect NDAS device to your wireless router or access point with included Ethernet cable.

3. Make sure the power connector is firmly attached to the NDAS device and connect the power adapter to a power source.
4. If your NDAS device has an On/Off switch, press the On/Off Switch to ON position.

### 2.2 USB Mode

**Note:** NDAS software does not need to be installed to use in USB mode.

1. If your NDAS device has dip switches on the rear panel, flip both dip switches up.
2. Connect the included USB cable from USB port on NDAS device to your PC's USB port.



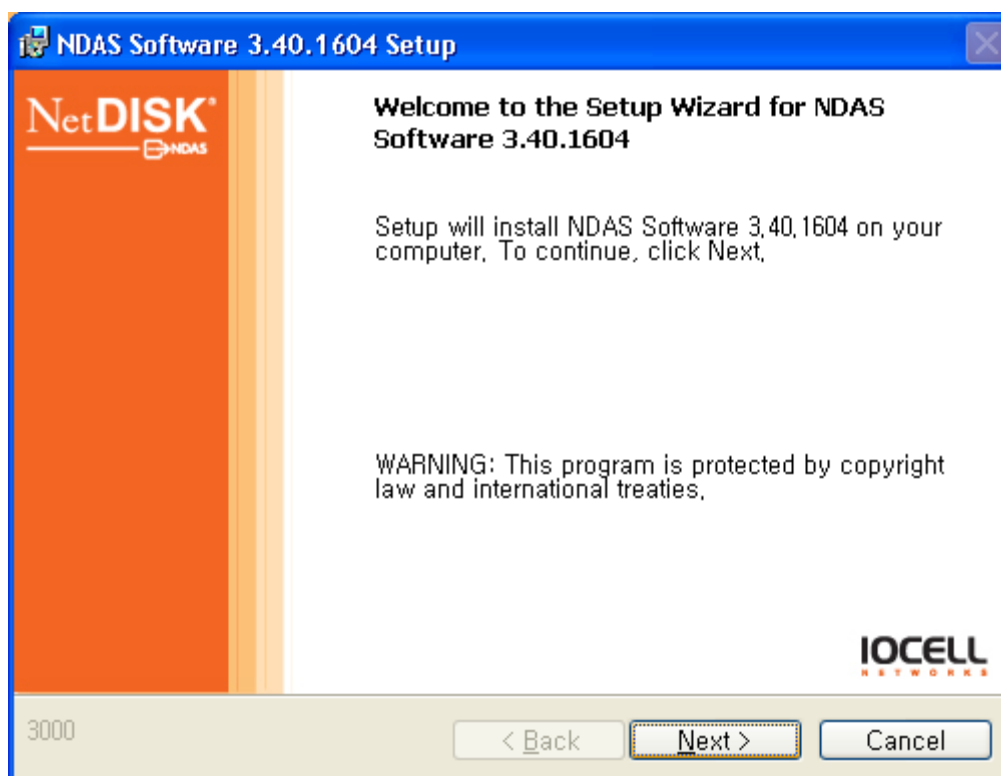
3. Make sure the power connector is connected firmly to the NDAS device and connect the power adapter to a power source.
4. If your NDAS device has an On/Off switch, press the On/Off Switch to ON position.

## 3 NDAS Software Installation

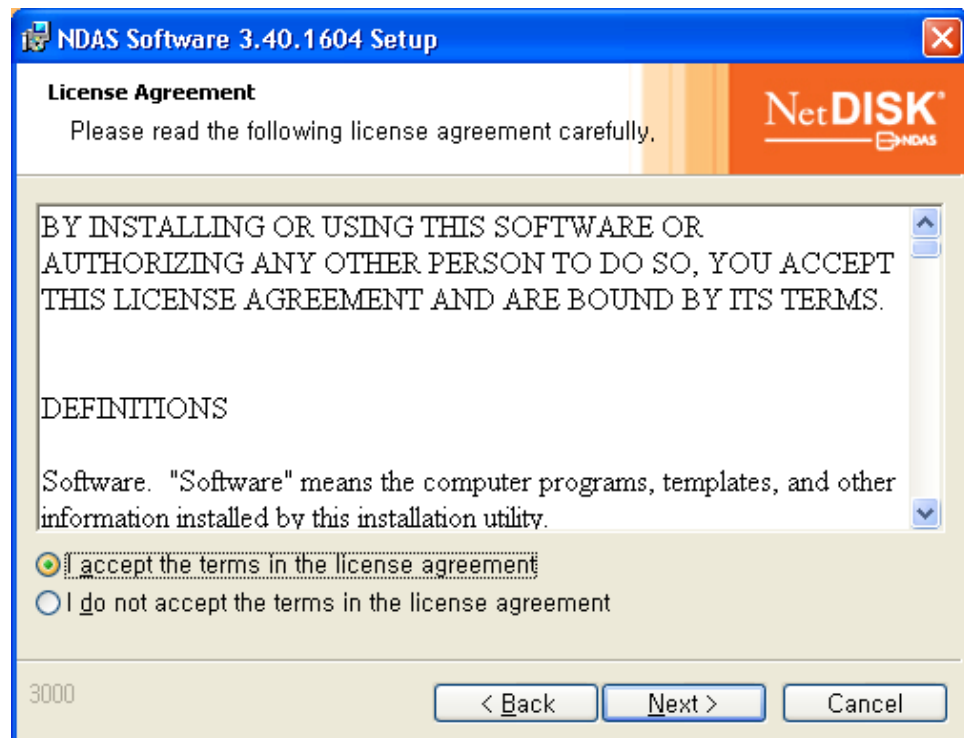
### 3.1 Installing NDAS 3.4x Software

Installation of the NDAS software is simple and easy. If you are downloading the software, please unzip the driver and double-click on setup.exe to begin installation. NDAS software supports both 32 and 64 bits Edition of Windows OS'.

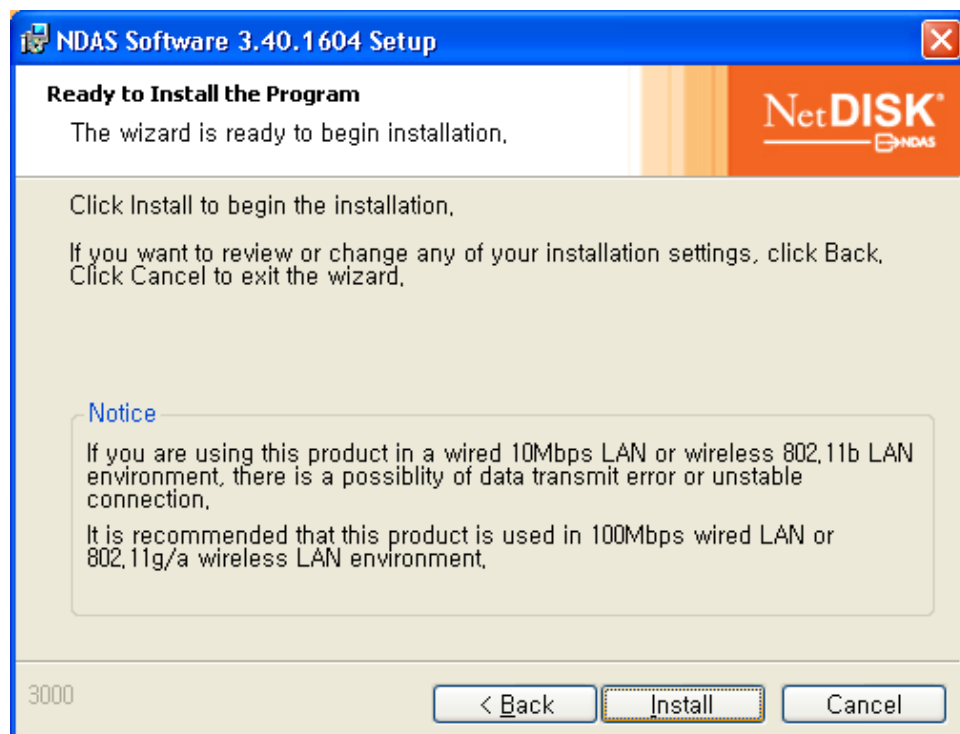
1. **NDAS Install Wizard** will appear. Click the **Next** button to continue to next step.



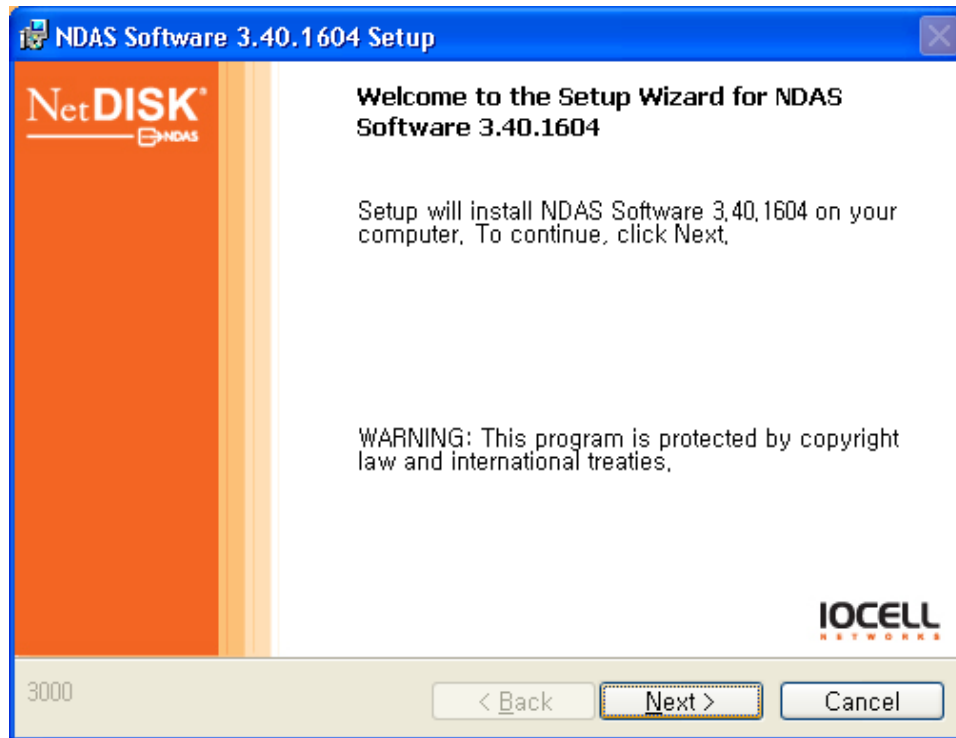
2. Accept **License Agreement** and then click **Next** to continue installation.



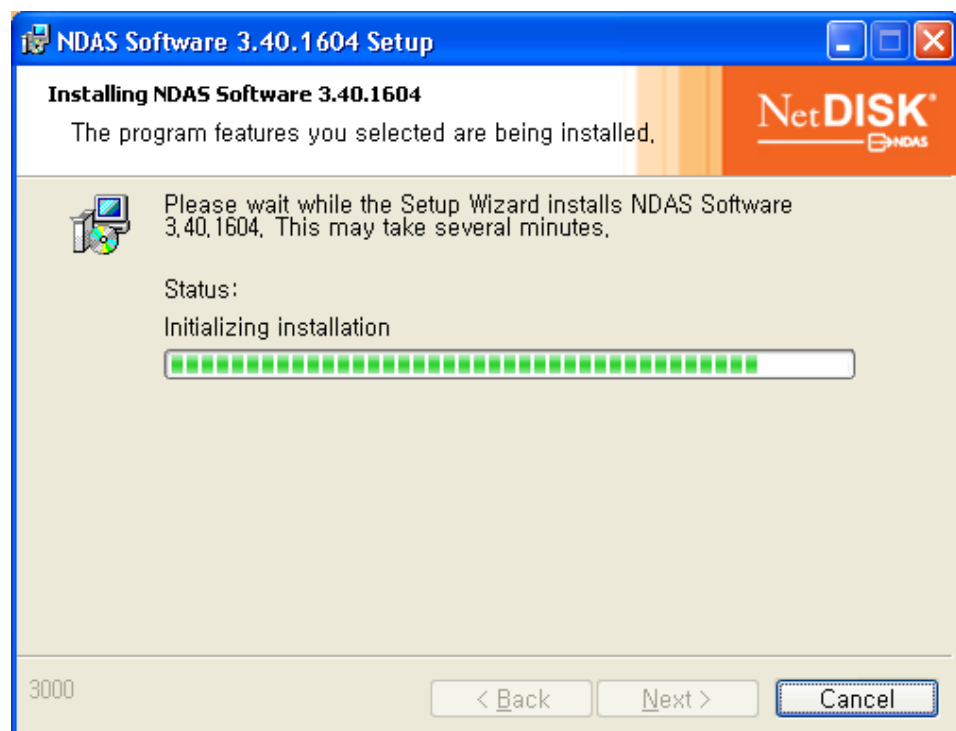
3. Click the **Install** button to install drivers.



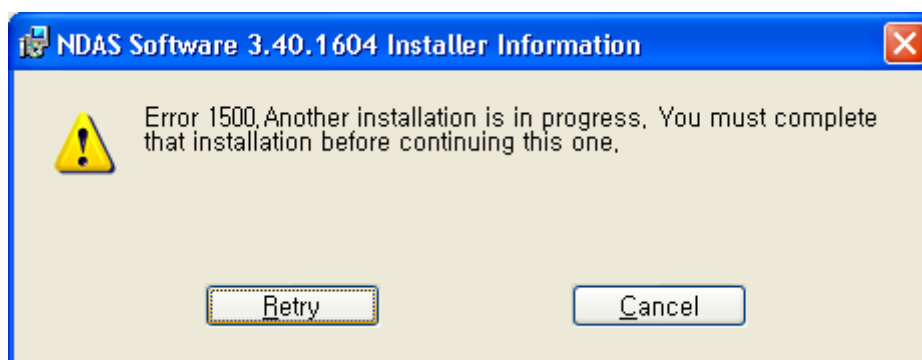
4. Click the **Install** button to install drivers.



5. Please wait while installation continues



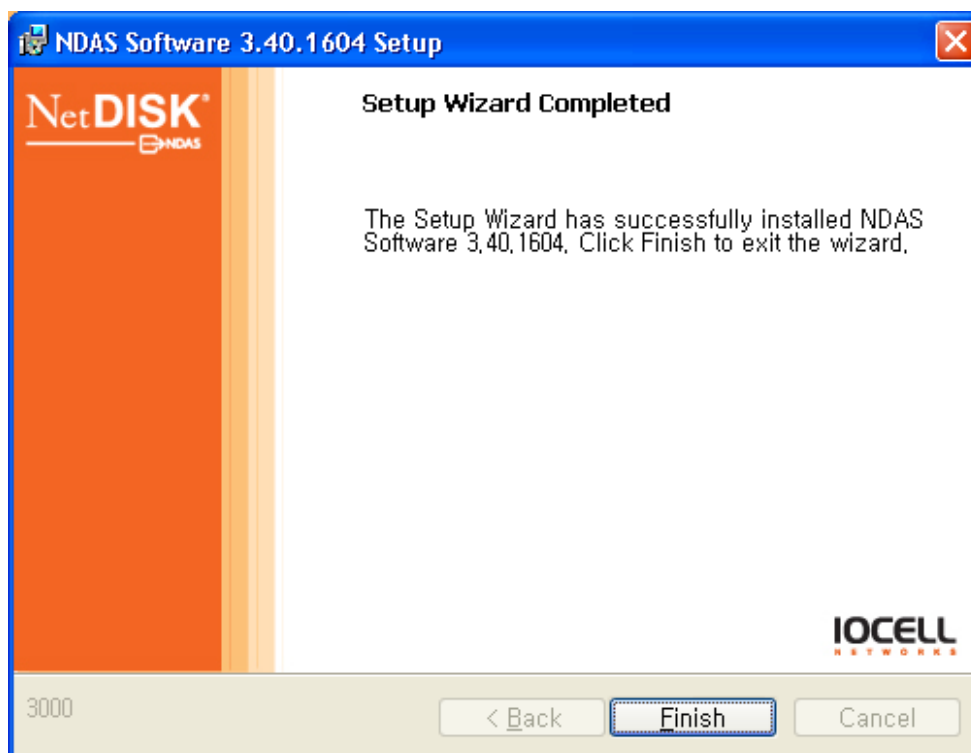
**Note:** If another version of NDAS software is installed previous, previous NDAS software must be uninstalled in order to install NDAS 3.4x version.



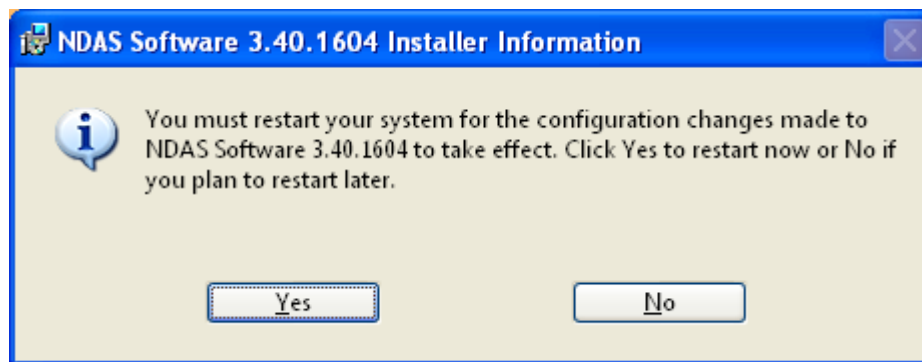
To uninstall the previous NDAS software In *XP OS*, go to **Start -> Control Panel -> Add/Remove Programs** and uninstall the NDAS software.

To uninstall the previous NDAS software In *VISTA OS*, go to **Start -> Control Panel -> Uninstall programs or Programs Features**, then uninstall the NDAS software.

6. When the installation is complete, click **Finish** to exit the installation.



7. Click on the Yes button to restart your computer if this window comes up. **(Rebooting is required for NDAS device to function)**



## 4 NDAS Device Registration

**Note:** You must register your device if you are using NDAS Mode. Using NDAS device via USB connection does not require Device Registration.

### 4.1 Add/Register a New NDAS Device Using the Registration Wizard

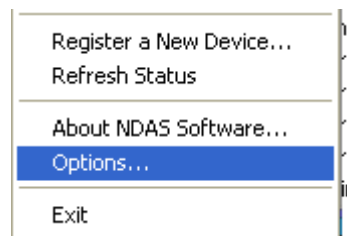
1. Once the PC is rebooted and NDAS device is attached on your network, **NDAS Device Registration Wizard** will pop up. Click **Next** to proceed



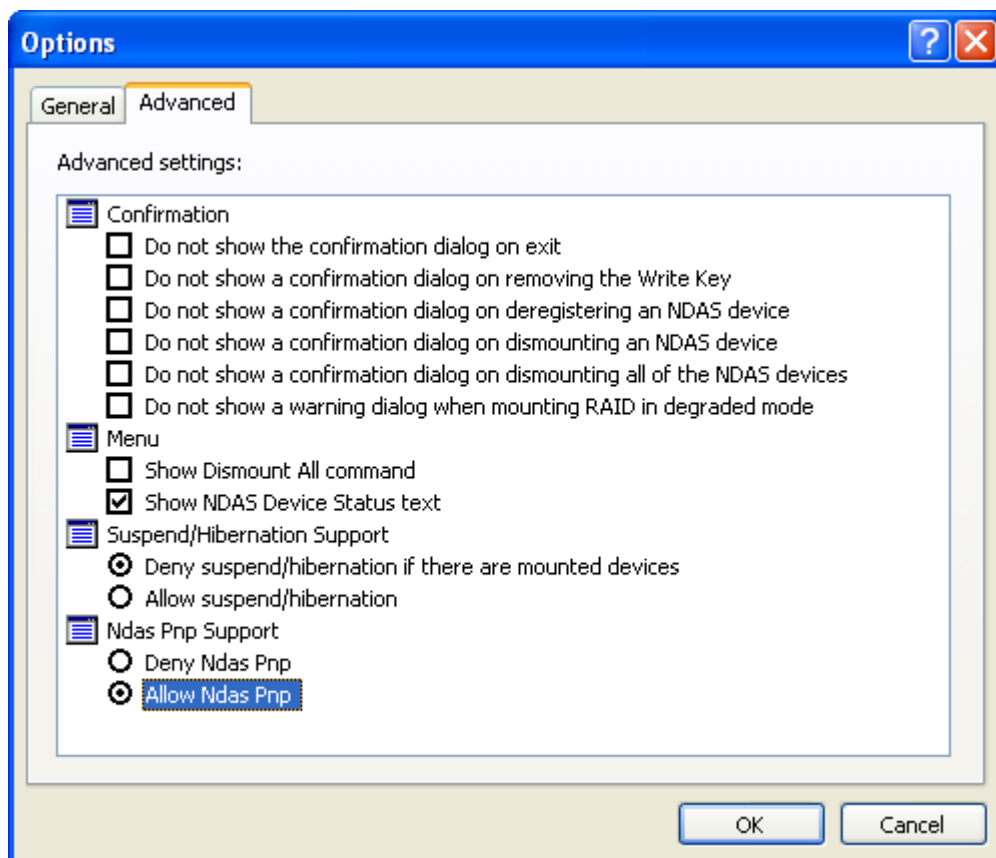
**Note:** This pop-up window will appear whenever there is new NDAS Device is present on the network. To avoid getting this window and start the **Device Registration Wizard** manually, please check “Disable Ndas PNP”

**Ndas PNP** (Ndas plug-n-play feature) can be enabled via **NDAS Device Management** when **Ndas PNP** is needed.

To enable the **Ndas PNP**, click on the **NDAS Device Management**  Icon located on the system tray. Then click on “Options” menu.



On the “Advanced” tab of “Options” window, check on “Allow Ndas Pnp”. Click “OK” exit the “Option” window.





2. To run the **NDAS Device Registration Wizard** manually, click  Icon located on the system tray. Then select **Register A New Device**.



3. To register a Ndas Device, Click **Next** on the **NDAS Device Registration Wizard**.

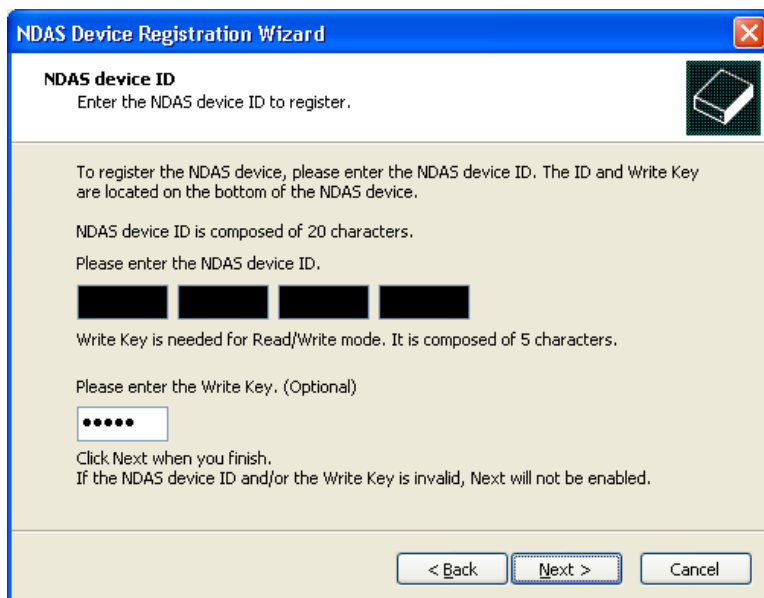


4. Enter a name for the NDAS device. Click **Next**.



The screenshot shows the 'NDAS Device Registration Wizard' window. The title bar is blue with the text 'NDAS Device Registration Wizard' and a close button. The main window has a light beige background. At the top, there's a section titled 'NDAS Device Name' with a sub-header 'Specify the name for the NDAS device.' and a small icon of a hard drive. Below this, there's instructional text: 'Please choose a name for the NDAS device. This name will be used to identify the NDAS device in your system only.' and 'The name can be up to 30 characters long.' followed by 'Please enter the name.' and a text input field containing 'NDAS Device 1'. At the bottom, there's a note 'Click Next when you finish.' and three buttons: '< Back', 'Next >', and 'Cancel'.

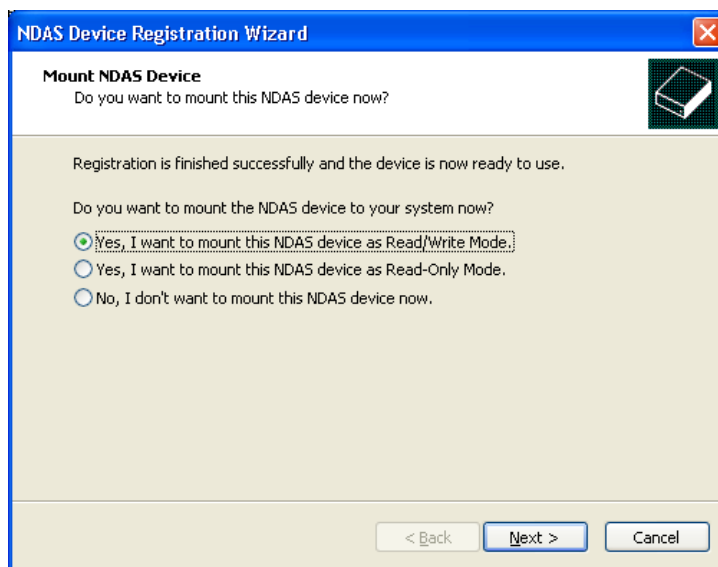
5. Add your NDAS device **ID** and **Write Key**. The **Write Key** is needed to write to your NDAS device. Once entered, click **Next** to continue.



The screenshot shows the 'NDAS Device Registration Wizard' window. The title bar is blue with the text 'NDAS Device Registration Wizard' and a close button. The main window has a light beige background. At the top, there's a section titled 'NDAS device ID' with a sub-header 'Enter the NDAS device ID to register.' and a small icon of a hard drive. Below this, there's instructional text: 'To register the NDAS device, please enter the NDAS device ID. The ID and Write Key are located on the bottom of the NDAS device.' and 'NDAS device ID is composed of 20 characters.' followed by 'Please enter the NDAS device ID.' and four black rectangular input fields. Below these, there's text: 'Write Key is needed for Read/Write mode. It is composed of 5 characters.' followed by 'Please enter the Write Key. (Optional)' and a text input field containing five dots. At the bottom, there's a note 'Click Next when you finish. If the NDAS device ID and/or the Write Key is invalid, Next will not be enabled.' and three buttons: '< Back', 'Next >', and 'Cancel'.

**Note:** NDAS device ID and Write Key does not contain the letter O. Please use the number 0(zero) for all letter Os. If your NDAS device ID and Key are not typed in correctly, The 'Next' button will not be selectable

6. Select how you want to mount the NDAS device then click **Next**.



**Read/Write Mode:** Mounts NDAS device as Read/Write Mode.

**Note:** Read/Write Mode will be disabled if a user did not enter the Write Key during step 5.

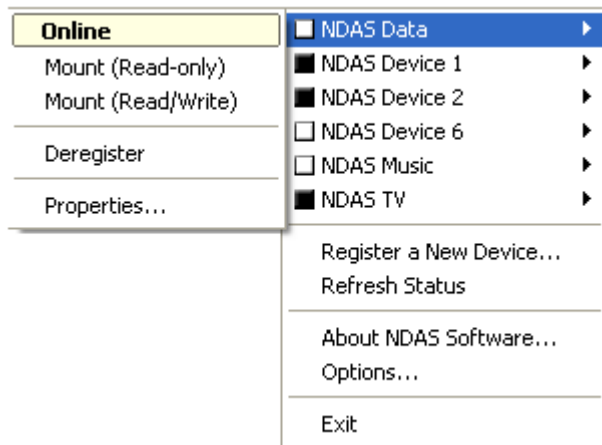
**Read-Only Mode:** Mounts NDAS device as Read-Only Mode.

**Don't Mount:** NDAS device is left in Connected (Dismounted) Mode.

7. When registration is finished. Click **Finish** to exit.

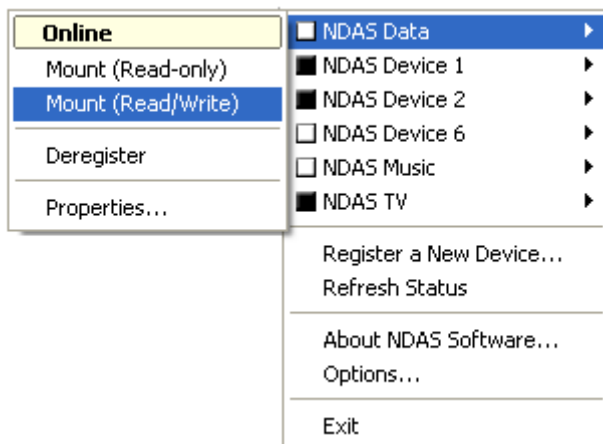


8. After NDAS Device is registered, **NDAS Device Manager** can display the registered Ndas Devices. Click on  icon which is located on the system tray.

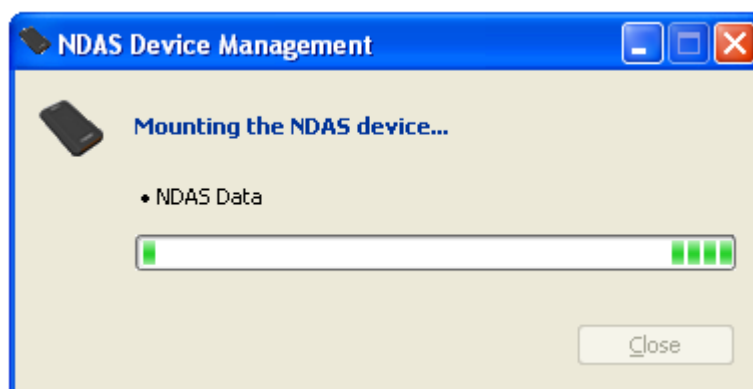


## 4.2 Mounting a NDAS Device

1. Click on “Mount” on the NDAS Device Manager that is located on the system tray.



2. After click “Mount” menu, following window will pop-up.

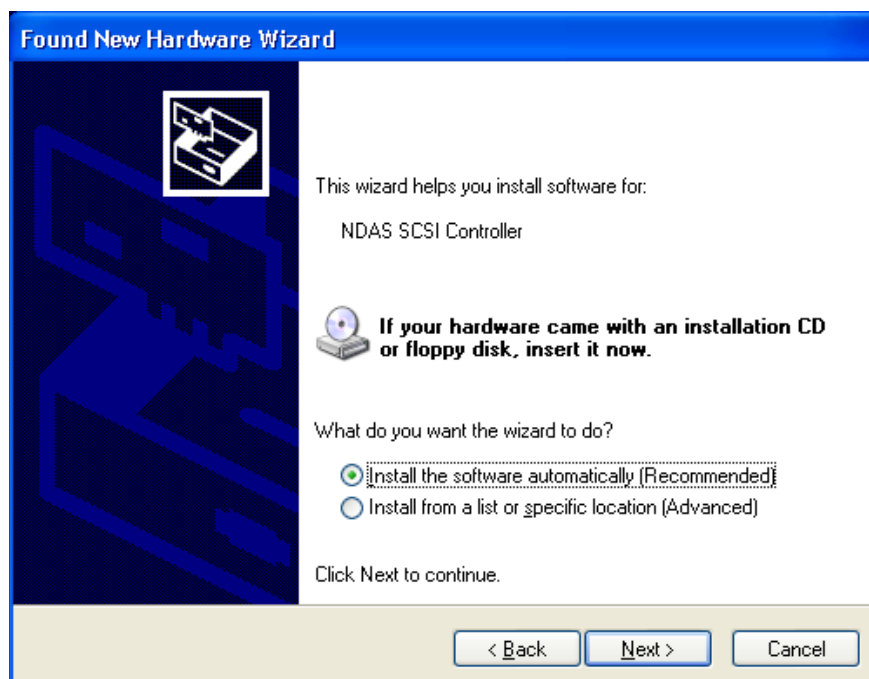


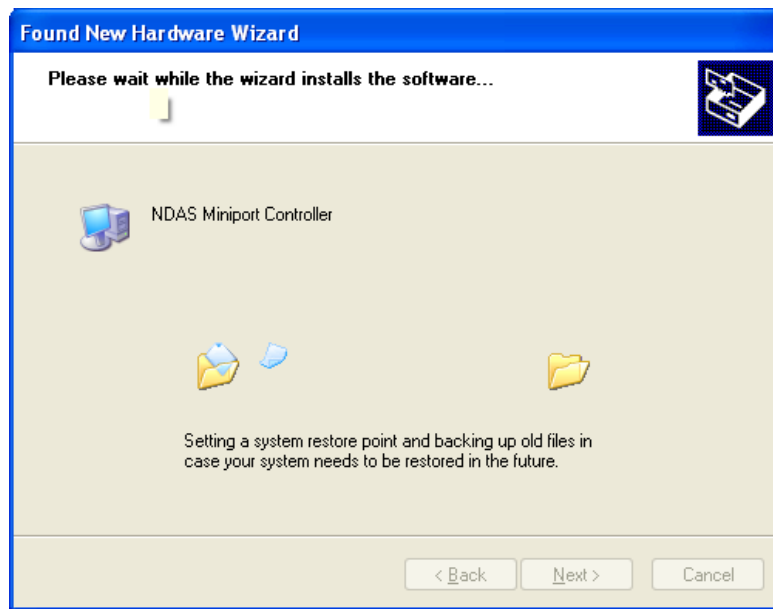
### 3. Found New Hardware Wizard should appear

**Note:** Depends on the Windows version, the look of Hardware Wizard may have a different look or will not appear. This window does not appear in Windows Vista.



It should automatically find the appropriate drivers for your NDAS device.

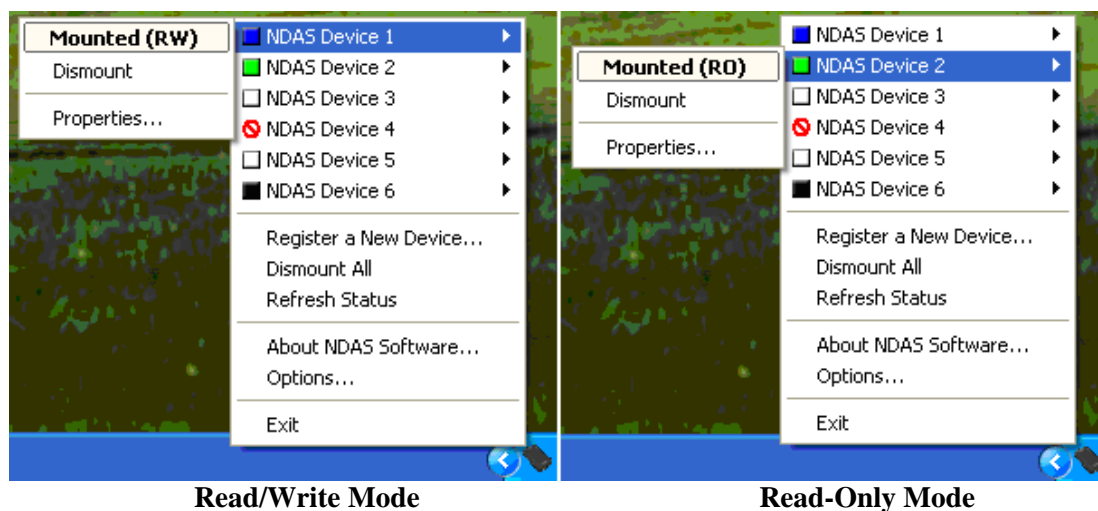




4. After mounting is complete, hardware notification bubble will appear.



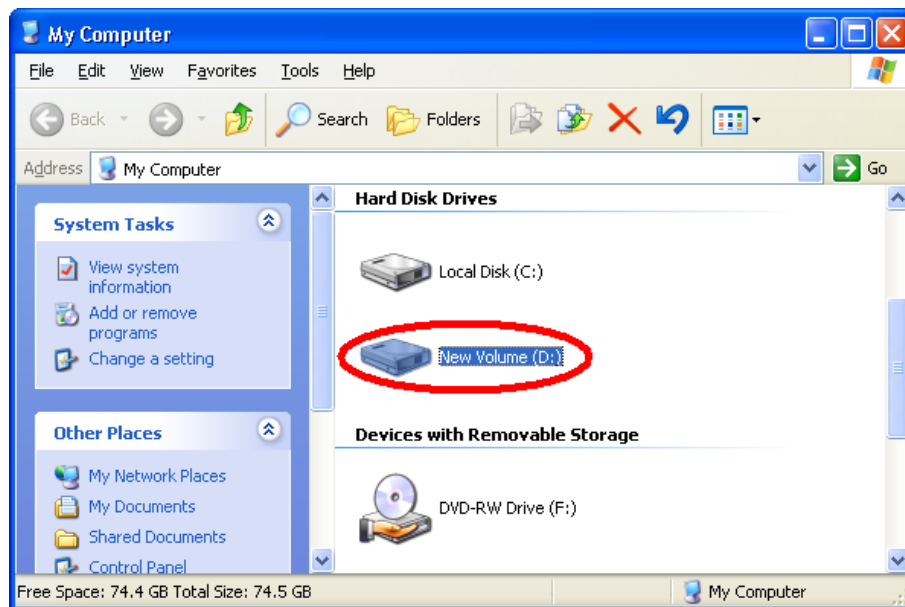
5. Click **NDAS device Management**  to see the registered NDAS device.



**Note:** If you cannot see your NDAS device, please click Refresh Status and check again.

## 4.3 Using NDAS Device

Now that you have successfully installed NDAS device, it is time to familiarize yourself with using the NDAS device. Your NDAS device will show up as a local drive in **My Computer**. Drive letter and NDAS device name may vary between Personal Computers.



You can use NDAS device like a local drive on your PC.

- Drag and drop files from/to NDAS device.
- Copy and paste data from/to NDAS device.
- Make and delete folders.
- Share files and folders.
- Backup your data



## 4.4 Sharing NDAS Device

Once NDAS device is connected to your network, it can be accessed from any computer on your LAN.

To share NDAS device, the following must occur:

### Windows 2000/XP/2003/Vista Environment:

- All computers and NDAS device must be on the same LAN.
- NDAS device must be connected via Ethernet or Wireless Router.
- To share **Read and Write** access, all computers on the network using the NDAS device must have the same NDAS driver version installed.
- NDAS device must be registered onto each computer.



### **Warning:**








- **DO NOT** perform disk operations (**format**, **partition** and **chkdsk**) when multiple PCs have the NDAS mounted.
- NDAS device can be formatted, partitioned, chkdsk, aggregated or mirrored **ONLY** when **one** PC is connected.

## 5 Introduction to NDAS Device Management

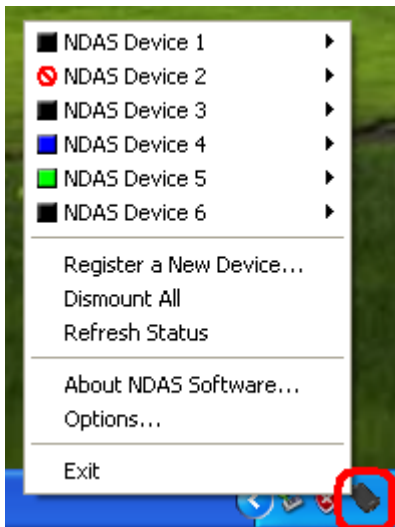
### 5.1 NDAS Device Status Modes

NDAS device provides users with 7 basic Modes.


Below is a chart describing each of the NDAS device Modes and the icons that correspond with each Mode.

NDAS device Color	Icon	Mode / Meaning
Green (Mounted RO)		<b>Read-Only Mode</b> Users can only read from NDAS device.
Blue (Mounted RW)		<b>Read / Write Mode</b> Users can read/write from/to NDAS device.
White (Connected)		<b>Ready</b> NDAS device is ready to be mounted.
Black (Disconnected)		<b>Disconnected Mode</b> NDAS device is registered but your system cannot find the NDAS device on the network. Power Cord, Ethernet Cord or USB Cord may be unplugged. Make sure any Antivirus/Firewall software or Spyware is not interfering with the connection.
Gray (Identifying)		<b>Identify Mode</b> NDAS device is identifying its status.
Red w/ Slash (Deactivated)		<b>Deactivated Mode</b> NDAS device is deactivated and needs to be Activated. Click on the NDAS device Management menu and click on Activate.
Red (Error)		<b>Disconnected Mode</b> There is a communication error between your computer and the NDAS device. Power Cycle the NDAS device and reboot the computer.

## 5.2 NDAS Device Management



Click the **NDAS Device Management**  located on the system tray. All registered NDAS device(s) will be displayed on the NDAS device Management Menu.

- **When you click on the**  **icon**, it lists all NDAS devices that are registered.
- **Register a New Device** registers a NDAS device to your computer.
- **Refresh Status** updates status of your NDAS device(s).
- **About** displays NDAS software version information.
- **Options** can customize NDAS device Management features and error messages/dialogs.
- **Exit** exits NDAS device Management.

**NDAS Device Management** can be restored by selecting *All Programs -> NDAS Software -> NDAS device Management* at Start Menu.

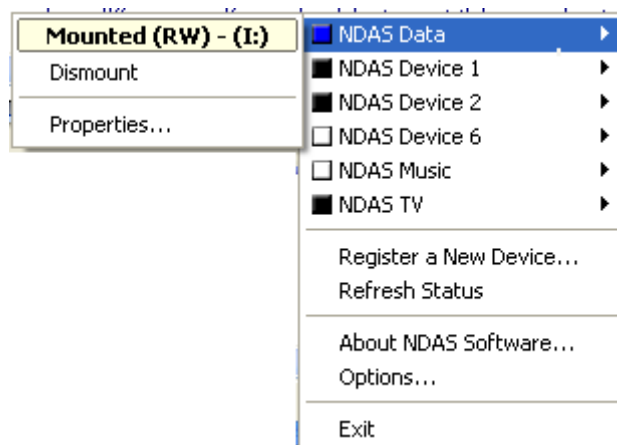
## 6 NDAS Device Functions

### 6.1 NDAS Device Management

Click on NDAS Device Management and place the cursor on a NDAS device to view its functions. Below is a list of the NDAS device Modes and related functions.

**Note:** The square box is there to show the current mode status of your NDAS device. It cannot be selected. For more information, please see the section on page 28.

#### A. NDAS device mounted in Read/Write Mode

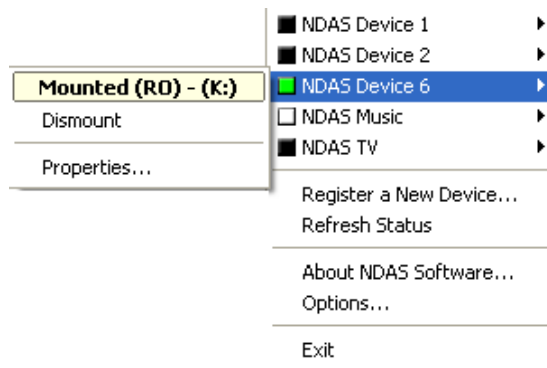


**Mounted (RW) - (/driver letter:)** - The current state of the NDAS device.

**Dismount** - Enables users to change NDAS device mode to Connected Mode.

**Properties** - Displays properties of the NDAS device.

#### B. NDAS device mounted in Read-Only Mode



**Mounted (RO) - (driver letter:)** - The current state of the NDAS device.

**Dismount** - Enables users to change NDAS device mode to Connected Mode.

**Properties** - Displays properties of the NDAS device.

### C. NDAS device in Offline Mode

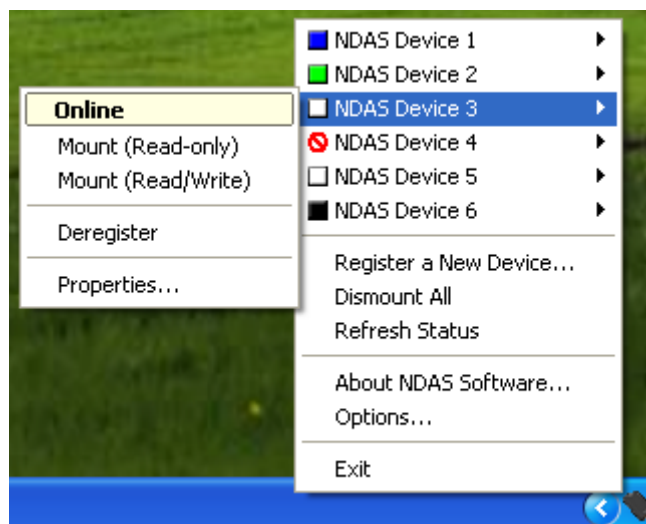


**Offline** - The current state of the NDAS device.

**Deregister** - Enables users to un-register NDAS device.

**Properties** - Displays properties of the NDAS device.

### D. NDAS device in Connected Mode



**Online** - The current state of the NDAS device.

**Mount (Read-only)** - NDAS device can be mounted into Read-Only Mode.

**Mount (Read/Write)** - NDAS device can be mounted into Read/Write Mode.

**Deregister** - Enables users to un-register NDAS device.

**Properties** - Displays properties of the NDAS device.

**E. NDAS device mounted in Deactivated Mode.**


**Deactivated** - The current state of the NDAS device.

**Activate** - Enables NDAS device to be activated into **Connected Mode**. Once activated NDAS device will be indicated by white colored box.

**Deregister** - Enables users to un-register NDAS device.

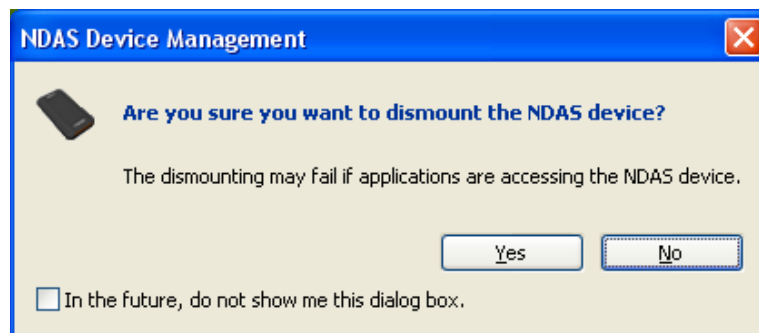
**Properties** - Displays properties of the NDAS device.

## 6.2 Changing from Read/Write Mode to Read-Only Mode

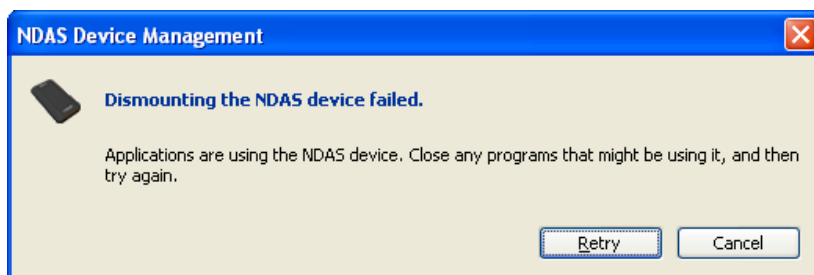
1. Click NDAS device Management  and select the NDAS device you want to change from Read/Write to Read-Only.
2. Select Dismount




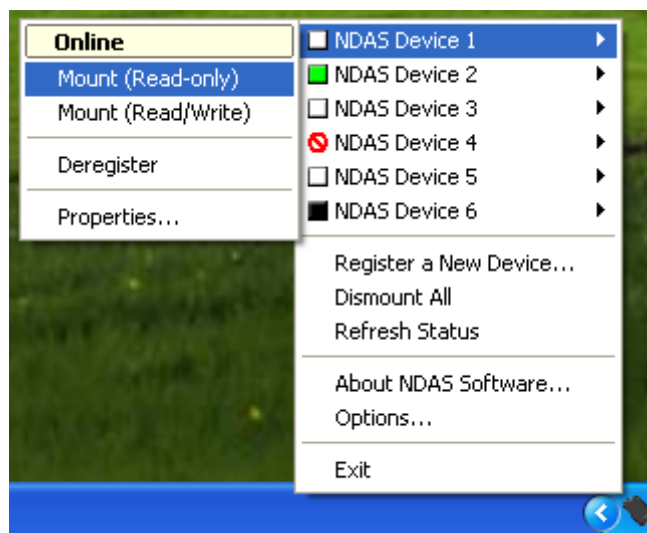
3. A warning will appear. Click **Yes**.
- 4.



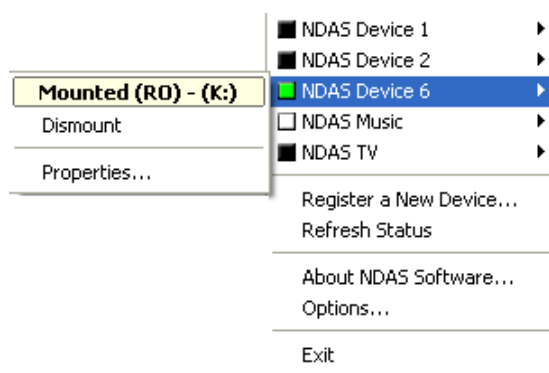
**Note:** When an application is accessing the NDAS Device, it can not be dismounted



5. Click NDAS device Management . The status icon is now changed to white. Select Mount (Read-only).




6. The White Square will change to a Green Square indicating Read-Only Mode.



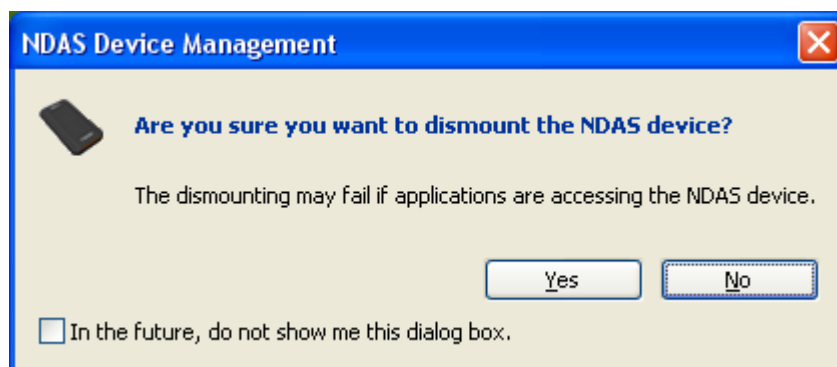



## 6.3 Changing from Read-Only Mode to Read/Write Mode

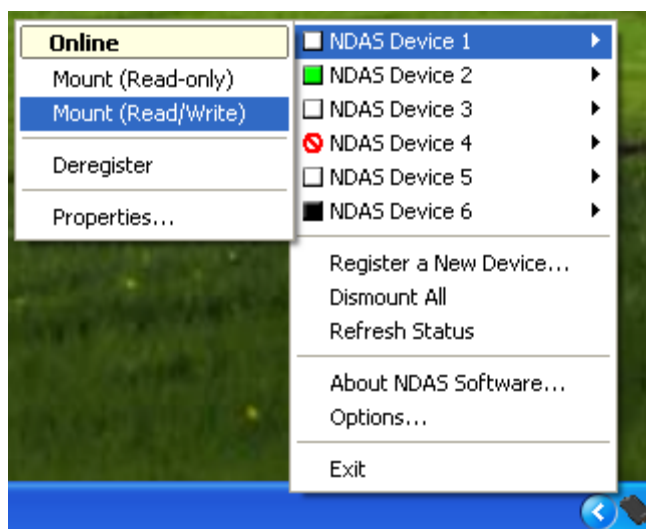
1. Click NDAS Device Management  and select the NDAS device you want to change from Read-Only to Read/Write.
2. Select Dismount



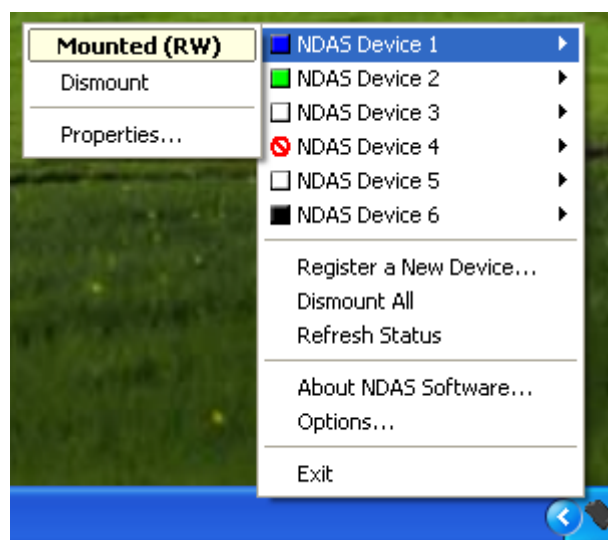
3. A warning will appear. Click **Yes**.




4. Click NDAS Device Management . The status icon is now changed to white. Select Mount (Read/Write).



5. The White Square will change to a Blue Square indicating Read/Write Mode.



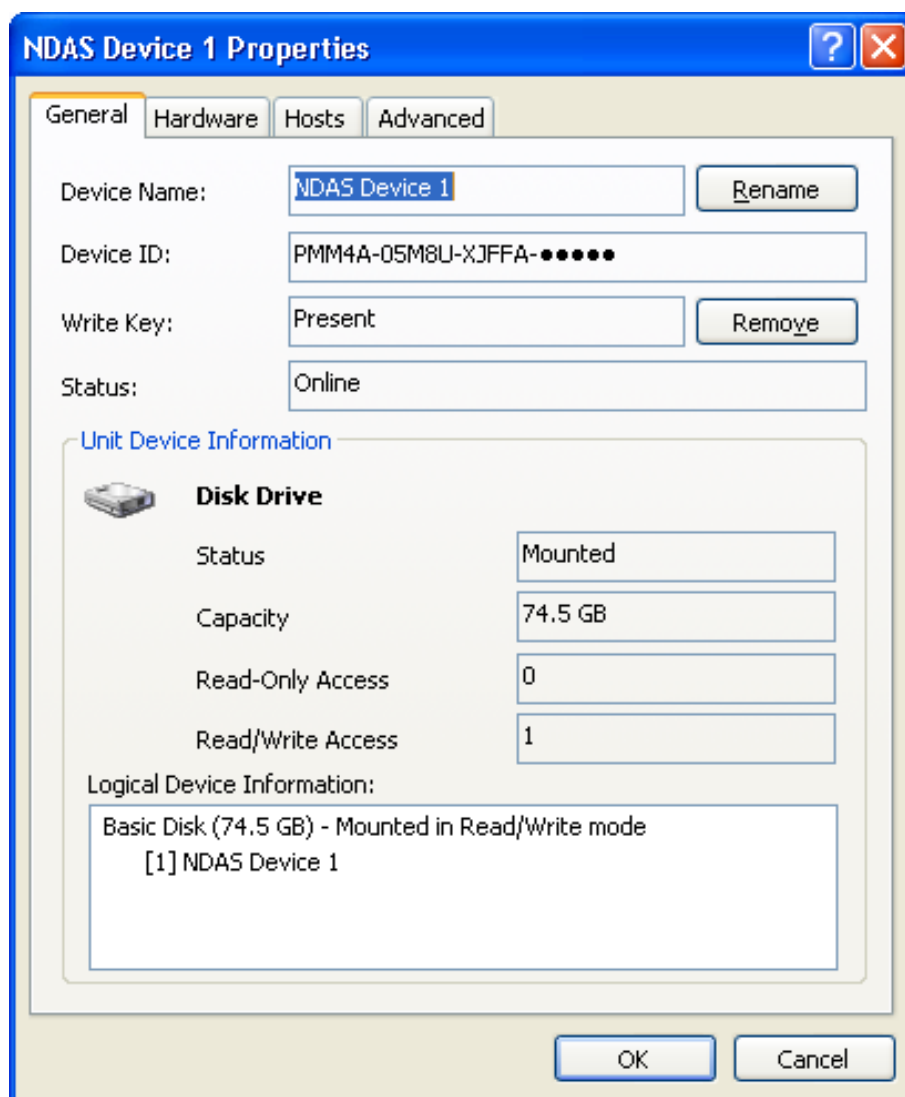
## 6.4 Using NDAS Device Properties

Clicking on your NDAS Device Management  and going into the Properties of your NDAS device will display useful information about your NDAS device hardware.

### 6.4.1 General

This will display information such as the Device Name, Status, and display how many users have the NDAS device mounted in RW or RO mode.

Also displays the capacity of the hard drive within your NDAS device.



The screenshot shows the 'NDAS Device 1 Properties' dialog box with the 'General' tab selected. The dialog has a blue title bar with a question mark and a close button. Below the title bar are four tabs: 'General', 'Hardware', 'Hosts', and 'Advanced'. The 'General' tab contains the following fields and controls:

- Device Name:** A text box containing 'NDAS Device 1' and a 'Rename' button.
- Device ID:** A text box containing 'PMM4A-05M8U-XJFFA-●●●●●●'.
- Write Key:** A text box containing 'Present' and a 'Remove' button.
- Status:** A text box containing 'Online'.

Below these fields is a section titled 'Unit Device Information' with a blue header. It contains a 'Disk Drive' icon and the following fields:

- Status:** A text box containing 'Mounted'.
- Capacity:** A text box containing '74.5 GB'.
- Read-Only Access:** A text box containing '0'.
- Read/Write Access:** A text box containing '1'.

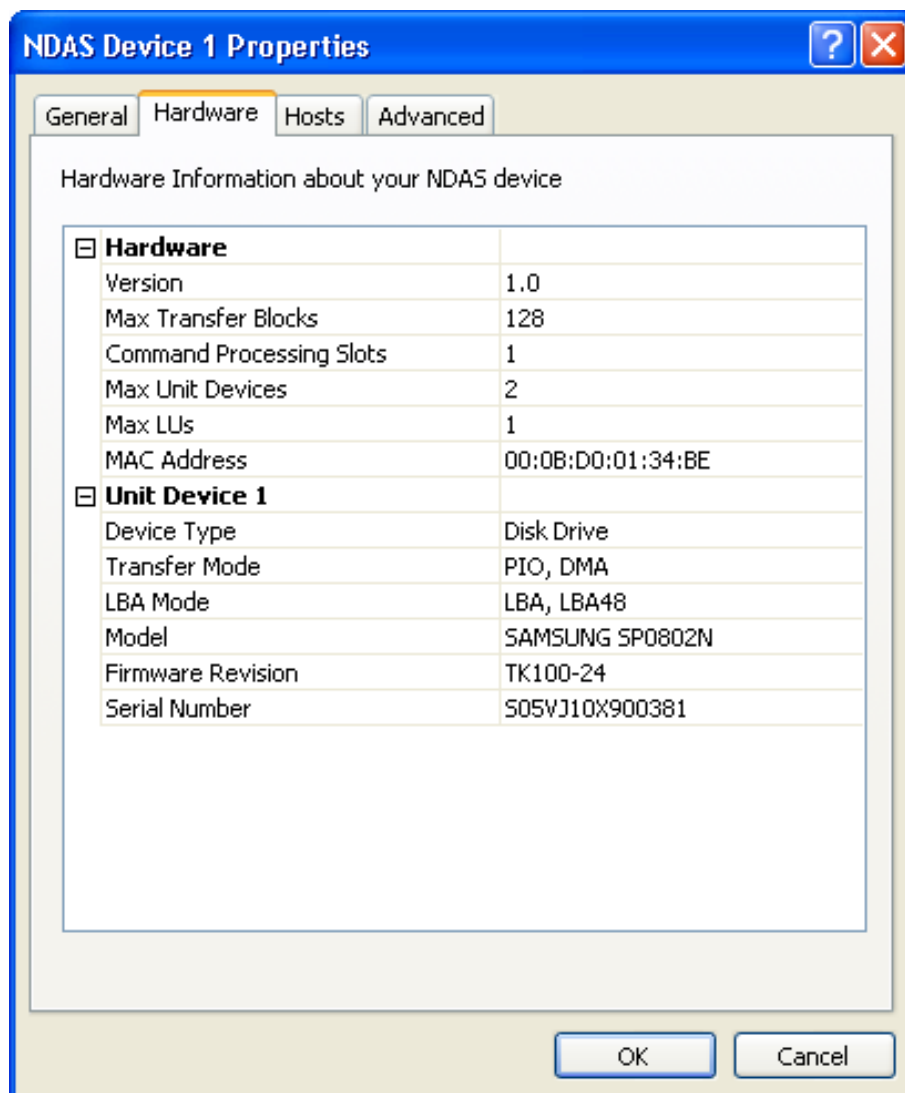
Below the 'Disk Drive' section is a section titled 'Logical Device Information:' with a text box containing the following text:

Basic Disk (74.5 GB) - Mounted in Read/Write mode  
[1] NDAS Device 1

At the bottom of the dialog are 'OK' and 'Cancel' buttons.

## 6.4.2 Hardware

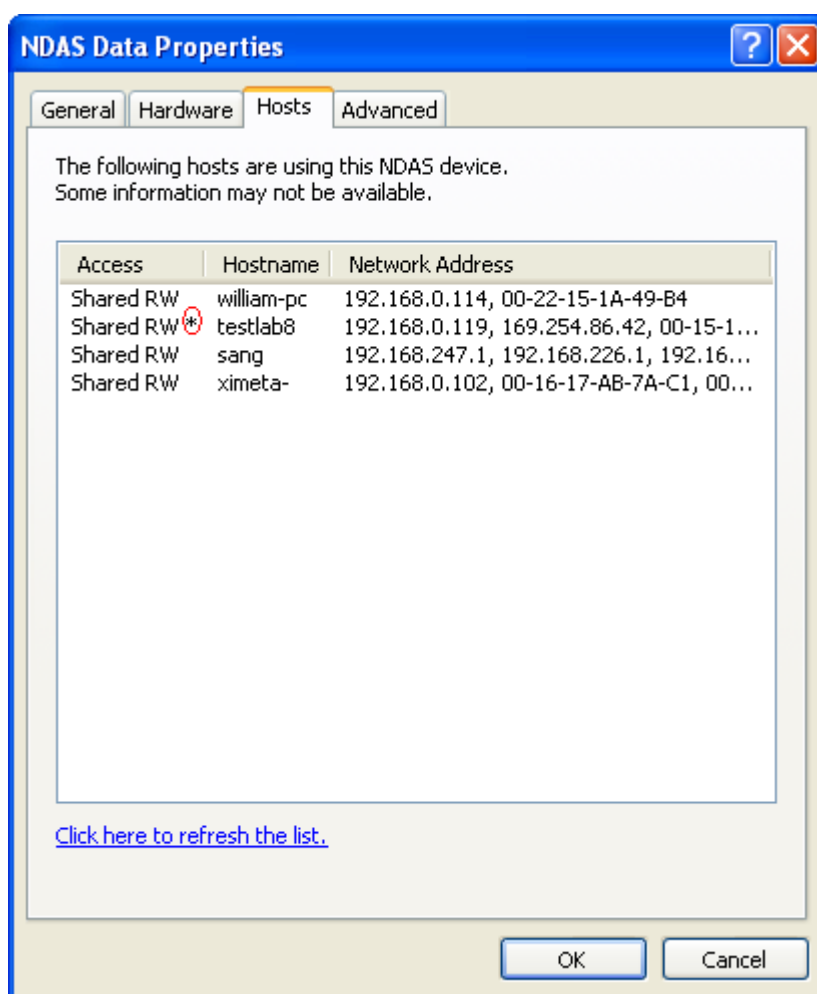
Hardware displays detailed information regarding the Chipset of your NDAS device, Mac Address, as well as detailed information regarding the Hard Drive within your enclosure. Having the Mac Address of your NDAS device will be useful if utilizing Mac Address Filtering within your Network.



## 6.4.3 Hosts

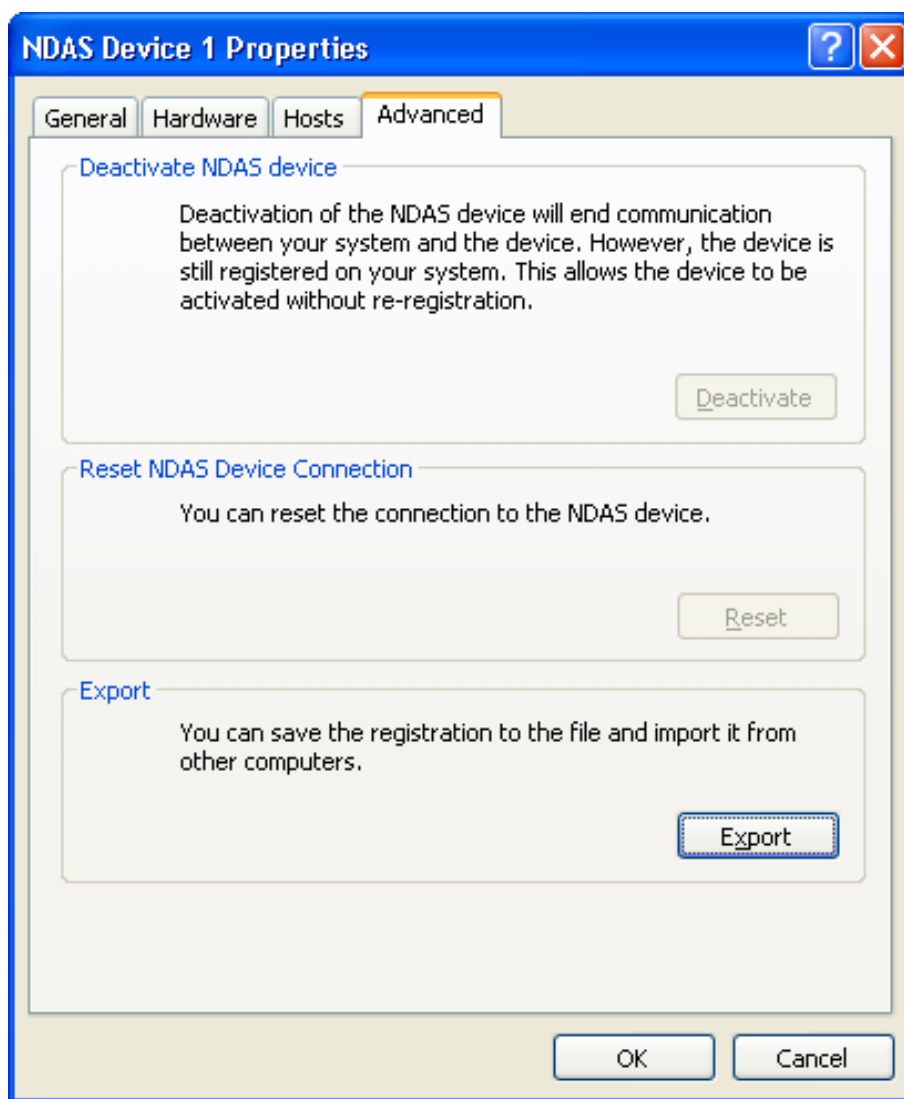
Hosts will display to you everyone that has the NDAS device mounted. Whether they have Read/Write Access or Read Only access this section will display the computer's name as well as their IP address.

This is useful when you want to find out who has access to your NDAS device. The host with asterisk after Access mode type is the primary host. The primary host has the most priority of accessing the disk among other hosts. When multi-hosts mount a disk, the primary host has the better speed of the accessing. "Click here to refresh the list" can refresh the current status of host(s).



## 6.4.4 Advanced

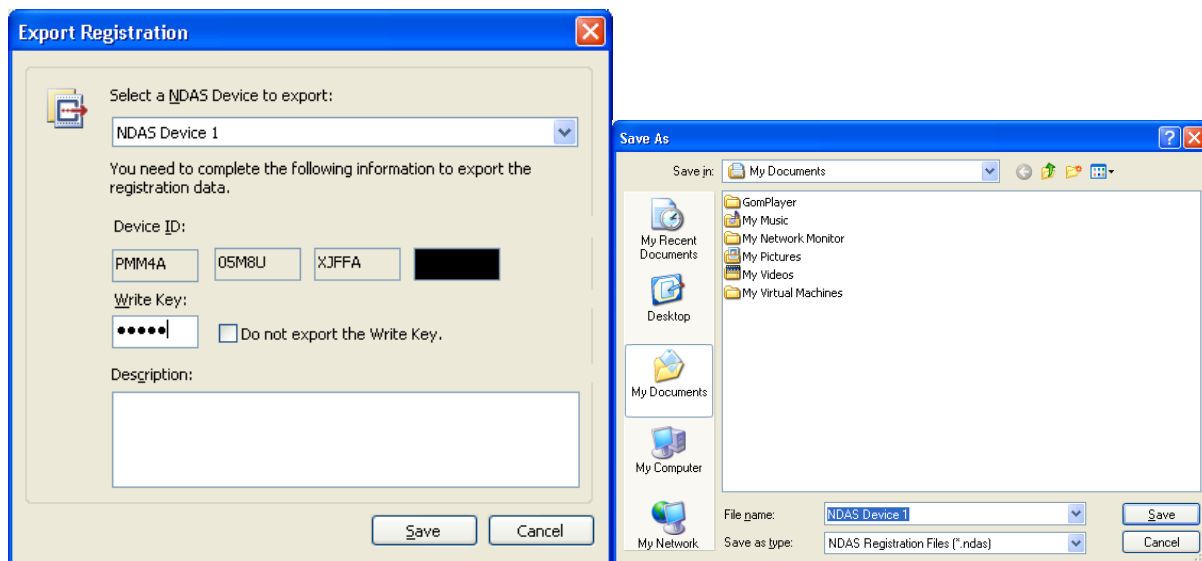
Advanced has several different options for use with your NDAS device. Deactivate, Reset, and Export are options you will have. Below we will explain their features.



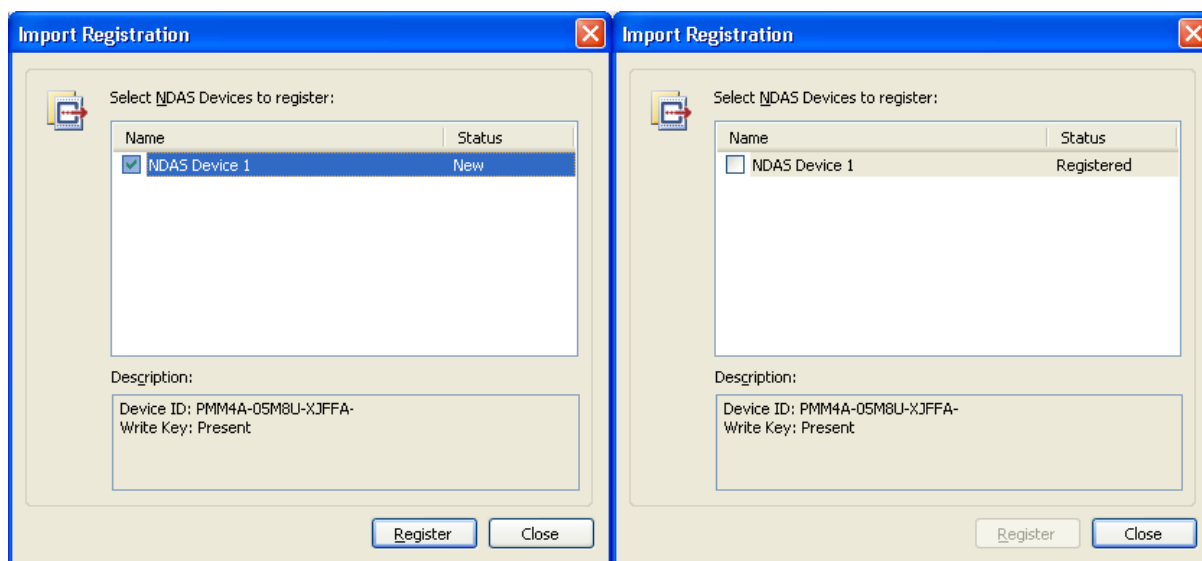
**Deactivate** - This feature will stop all communication from your computer to the NDAS device. It must be activated in order to mount it again.

**Reset** - Reset will completely reset the connection of your NDAS device. This will be useful when you are having trouble communicating to the NDAS device.

**Export** - This useful tool will allow you to export the NDAS device ID and Key so that it can be imported into another computer. This prevents you from having to manually type in the ID and Key on each system.



Once complete the exported ID will appear as an icon. To add the exported information to your NDAS software, simply double click on the saved icon.



## 7 Introduction to NDAS Bind Management

### 7.1 About NDAS Bind

Multiple NDAS devices can be used as if they are a single disk. This is called a NDAS bind and it can be created and managed by the **NDAS Bind Management** tool. You can bind multiple NDAS devices for more capacity per volume, more performance or protection from hard disk failures.

NDAS support three bind types: **Aggregation**, **Stripe (RAID0)** and **Mirror (RAID1)**.

**A. Aggregation (also called spanned disk or JBOD)**

- Allows any number of NDAS device units between 2 and 8 to be recognized as a single disk drive.
- Useful when a larger storage device is needed.
- This bind does not provide any fault tolerance. If any one unit fails, all data is lost.

**B. Stripe (also called RAID0)**

- Allows 2, 4, or 8 NDAS device units to be recognized as a single disk drive.
- Useful when a larger storage device is needed.
- This bind does not provide any fault tolerance. If any one unit fails, all data is lost.

**Warning:**

Because the block size of the striped disks is not 512 bytes, some applications or operating systems may not access striped devices correctly.

**C. Mirror (also called RAID1)**

- Allows 2 NDAS device units to be mirrored. You can add one more NDAS unit device as a spare disk.
- Provides fault tolerance. All data is written to both devices, so data can be accessed even after one device fails.

**Warning:**

Mirroring (RAID1) protects data only from hard disk failure. It cannot protect data from logical error such as file system error or incorrectly written data by application software. You need to backup your data to storage regularly to prevent these kinds of data loss.

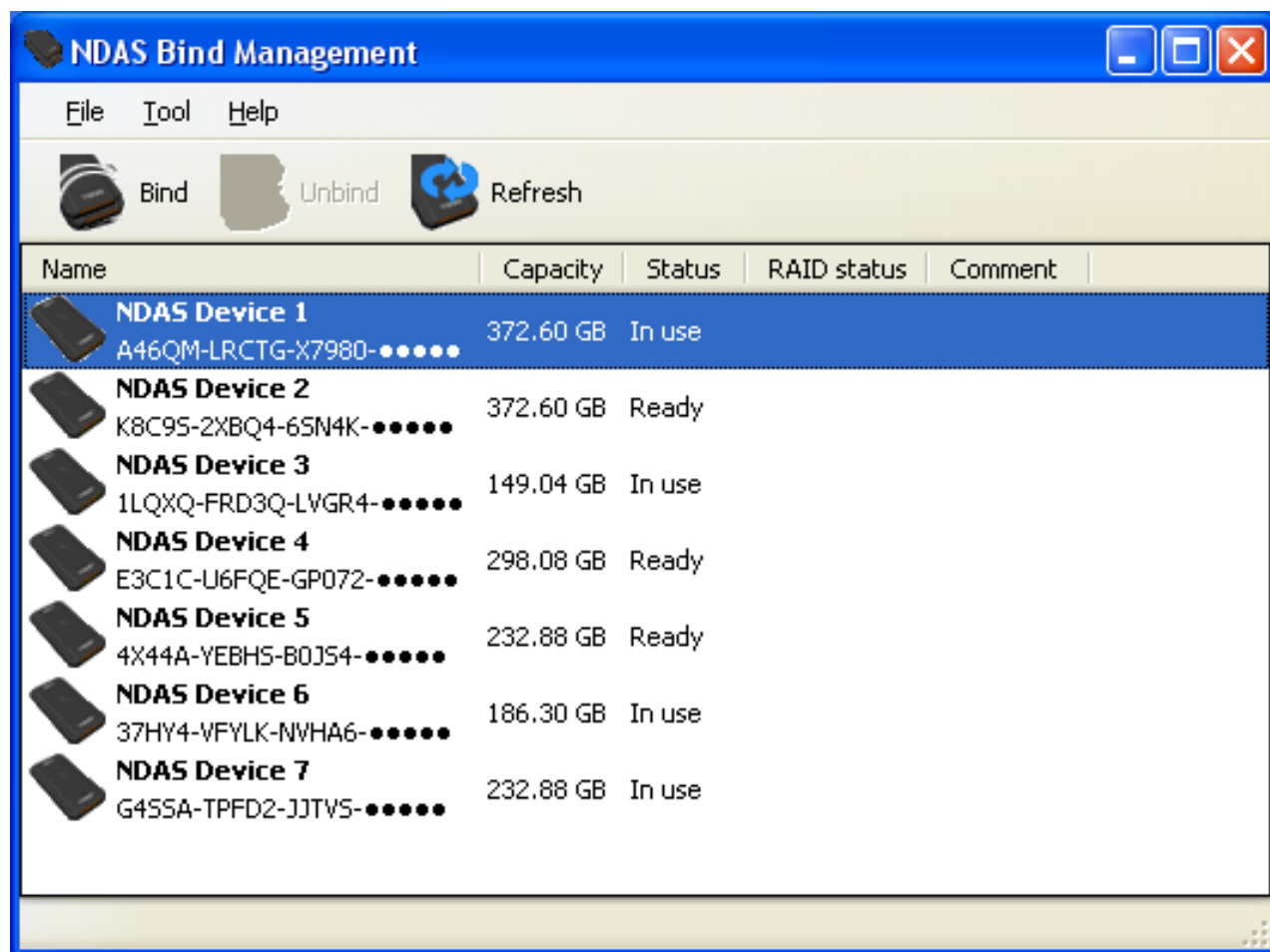


## 7.2 NDAS Bind Management

You can run **NDAS Bind Management** tool from Windows **Start -> Programs -> NDAS Software -> NDAS Bind Management** menu. You can create, remove and configure NDAS bind using this tool and you can also check current status of the bind from it. You can operate NDAS devices or NDAS bind by selecting and clicking right mouse button.

## 7.3 Before bind

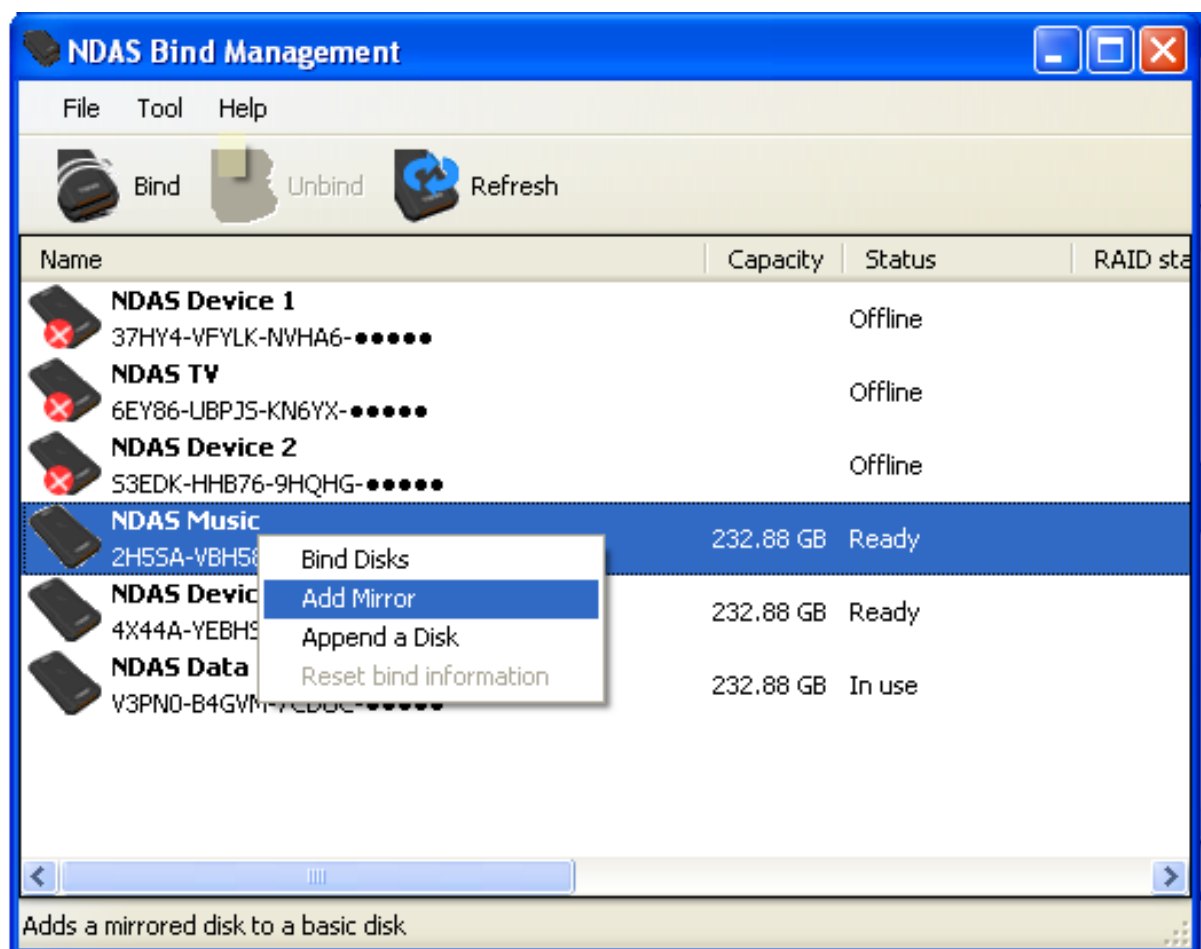
All NDAS devices to bind must be registered with write key and must be online status. And they must not be mounted on any PCs including the PC which performs the **NDAS Bind Management**. Make sure that all NDAS devices to bind is in **Ready** status. If the device is **In use** status, check which PC has mounted the devices using **NDAS Device Management -> Device -> Properties menu -> Hosts tab** and dismount the device from the Host. Yet press **Refresh** button or **F5** key to refresh.



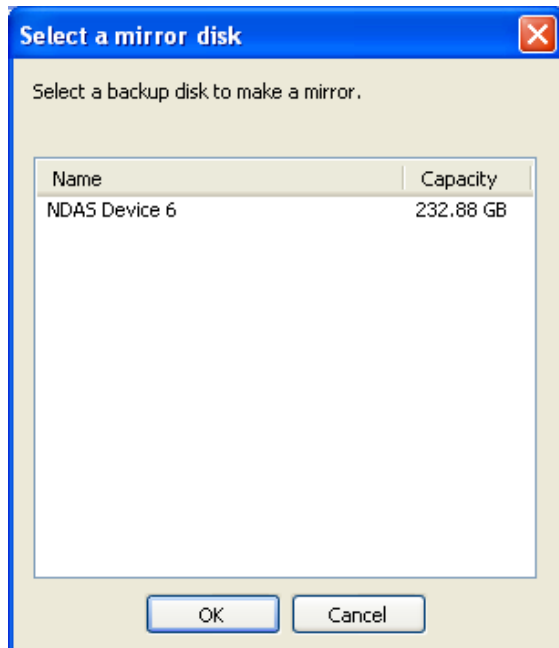
## 7.4 Creating Mirror without destroying data (Add Mirror)

Use **Add Mirror** menu to create a mirror (RAID1) while keeping the contents of the disk. This method will keep the existing data on the source disk. However, synchronization will take place which can take up to a day or so. While it is synchronizing, the disk access speed will be very slow.

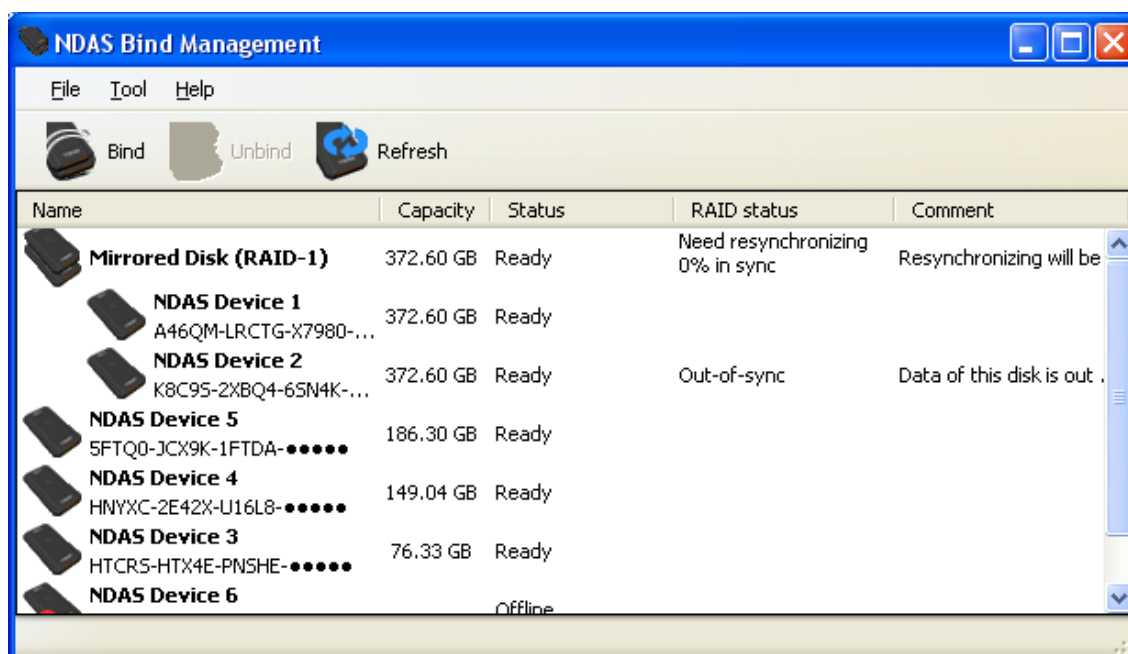
1. Select NDAS device which you want to keep data and click right mouse button.
2. Select **Add Mirror** menu and then select a device that you want to use as a mirrored disk.



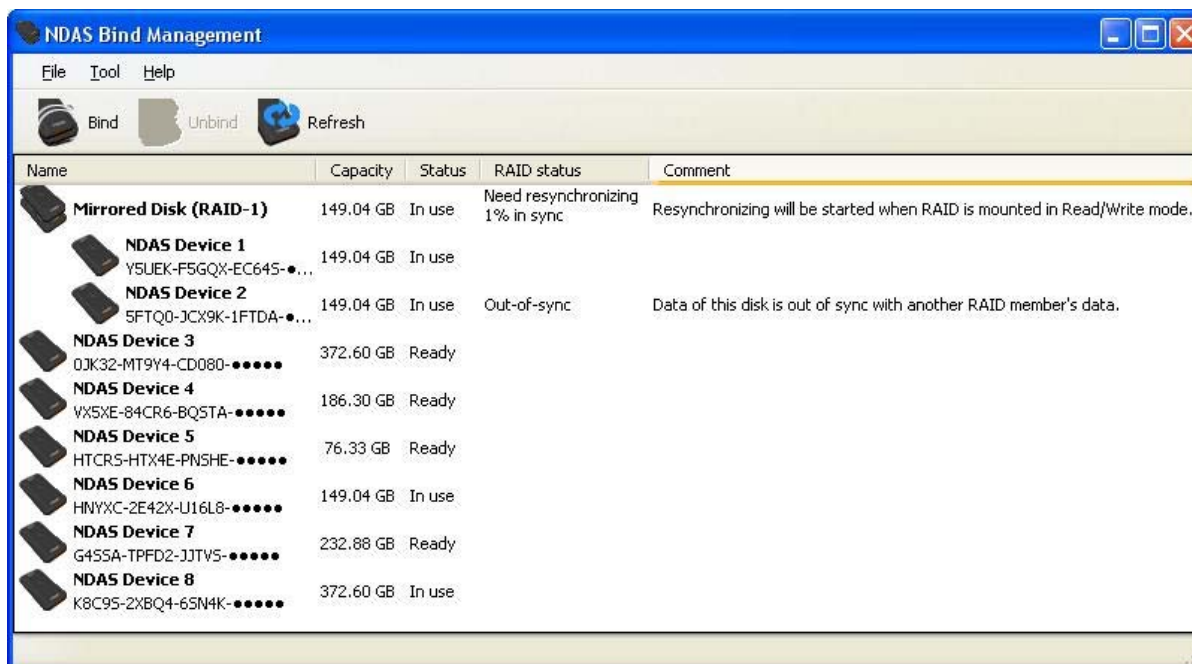
Then select the device and click on **OK**




3. Synchronizing process will be started once you have mounted the devices in read/write mode. But until devices are fully synchronized, they will run in recovery mode. In this mode, you can access the contents but the access speed may be slow. Mirror (RAID1) cannot protect data against original disk's failures in this mode. So it is recommended to wait until synchronization is completed before use.



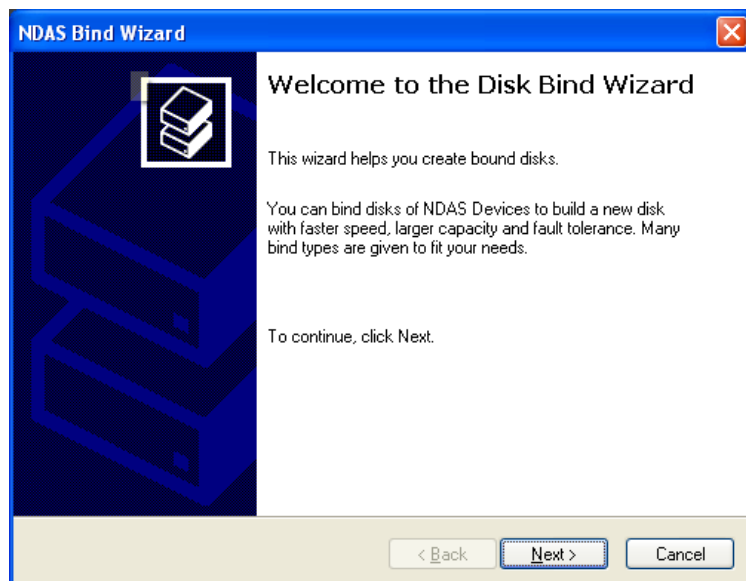
4. You can check the current progress of synchronization from NDAS Bind Management.



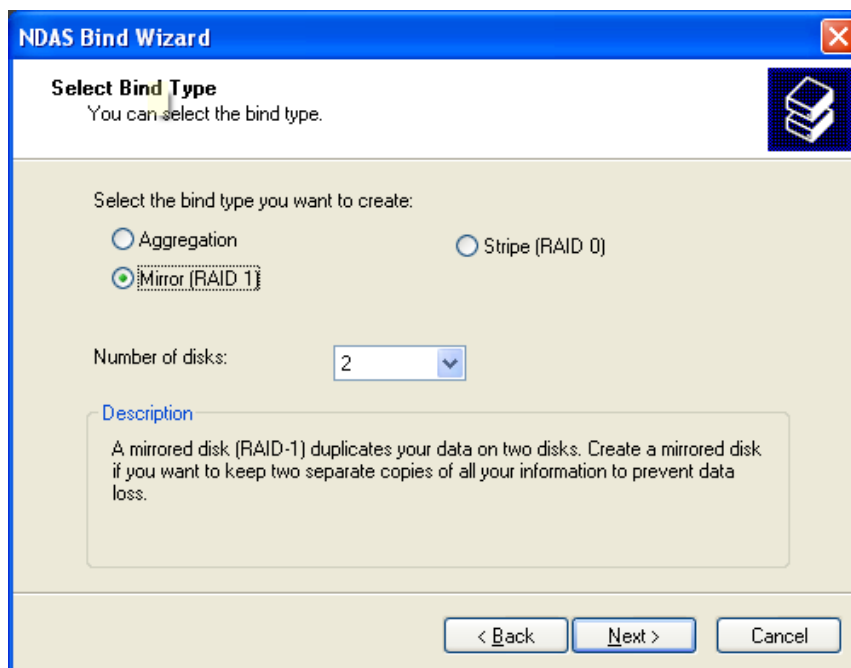
**Note:** The mirrored disk must be mounted Read/Write mode. Synchronization time differs depending on the data capacity of hard disk

5. To avoid synchronization, alternate method would be clicking on “Bind” icon  on the NDAS Bind Management also leads you to creating RAID1 drive. With this method, the data in both disks will be lost. It is recommended to use new disks or back-up the data that need to be saved.

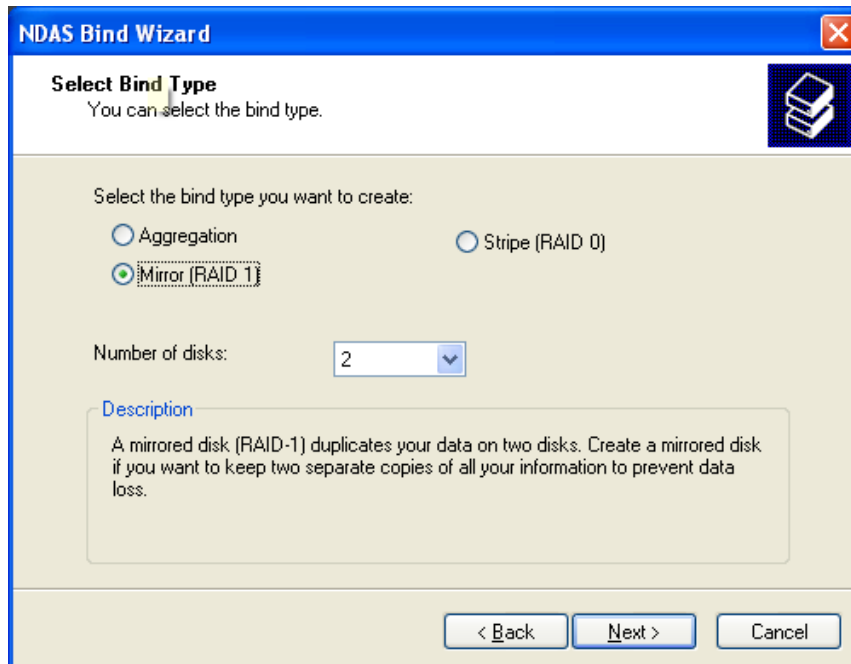
Click on **Next** to continue



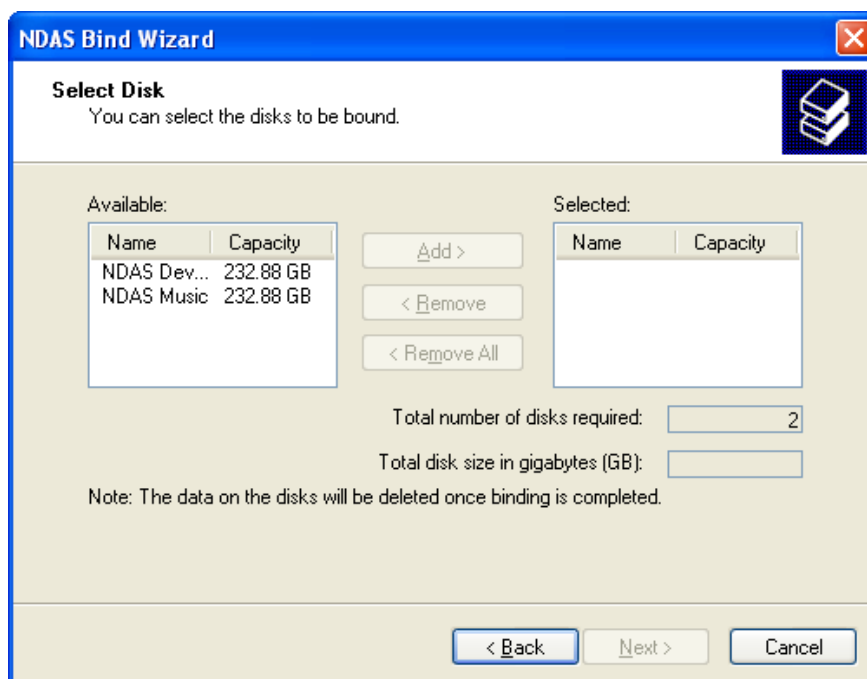
Click on Mirror then **Next** to proceed.



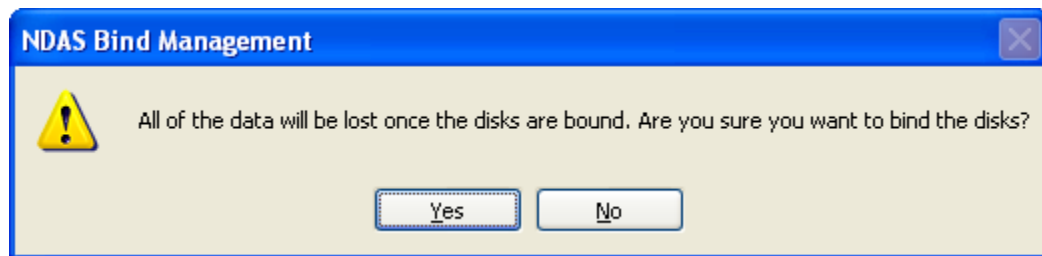
Click on Mirror then **Next** to proceed.



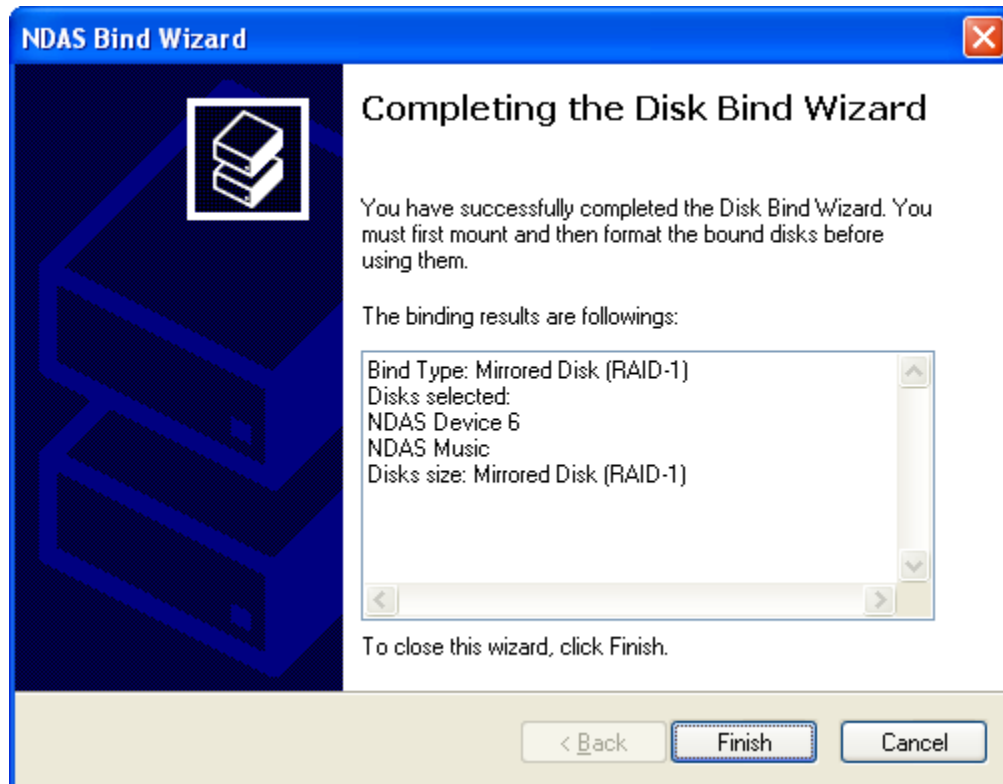
6. Select the disks that need to be mirrored then click **Next**.



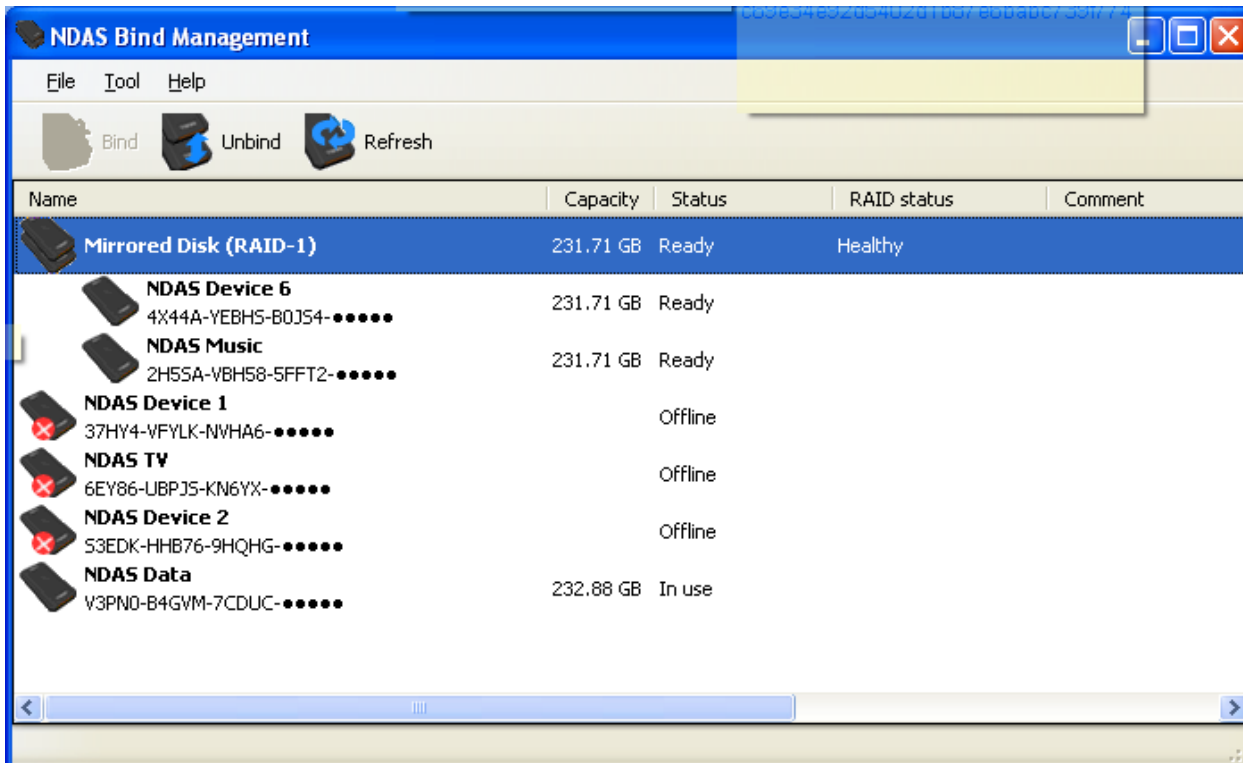
7. A warning widow will pop up, click “Yes” to proceed. Otherwise click “No” to quit



8. Click **Finish** to exit **Disk Bind Wizard**.



9. In the **Bind Management**, it will display the mirrored disk.



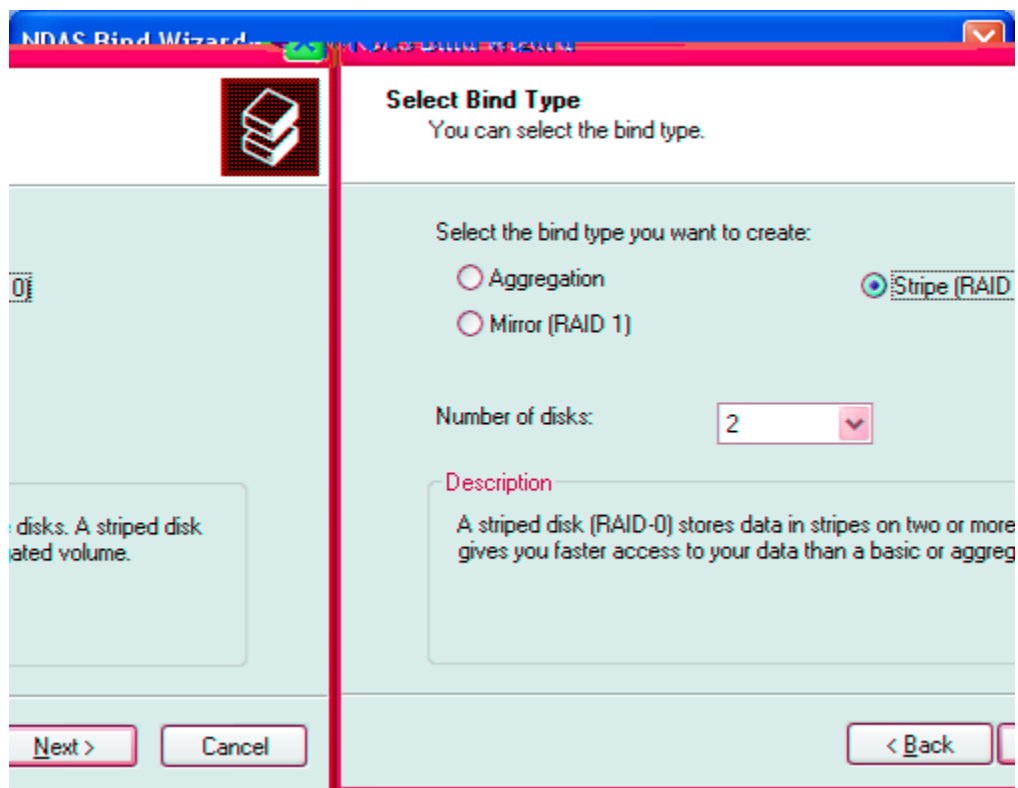


## 7.5 Creating new bind

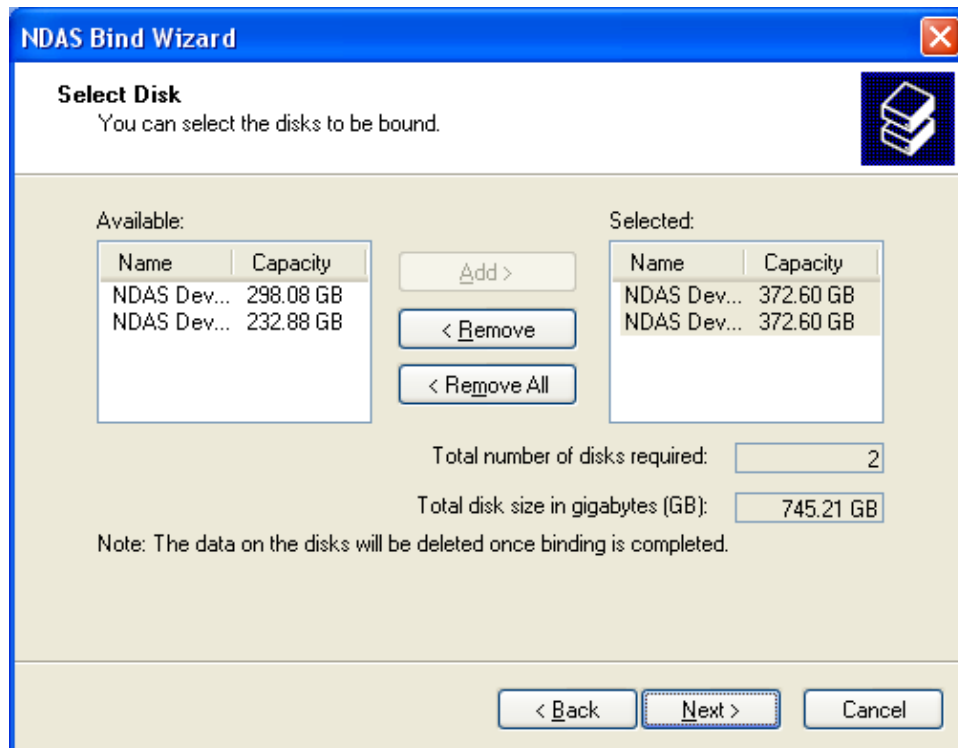
### Warning:

- All data on the disks will be deleted once bind is completed.
- Some versions of MS Windows operation system do not recognize storage larger than 2TB (2048 Giga bytes). If you want to use a single large volume, you need to use Windows 2003 server SP1, Windows XP x64 edition, Windows Vista or later.

1. Click "Bind" icon on the toolbar to start NDAS Bind Wizard. Select a bind type and the number of disks to use.



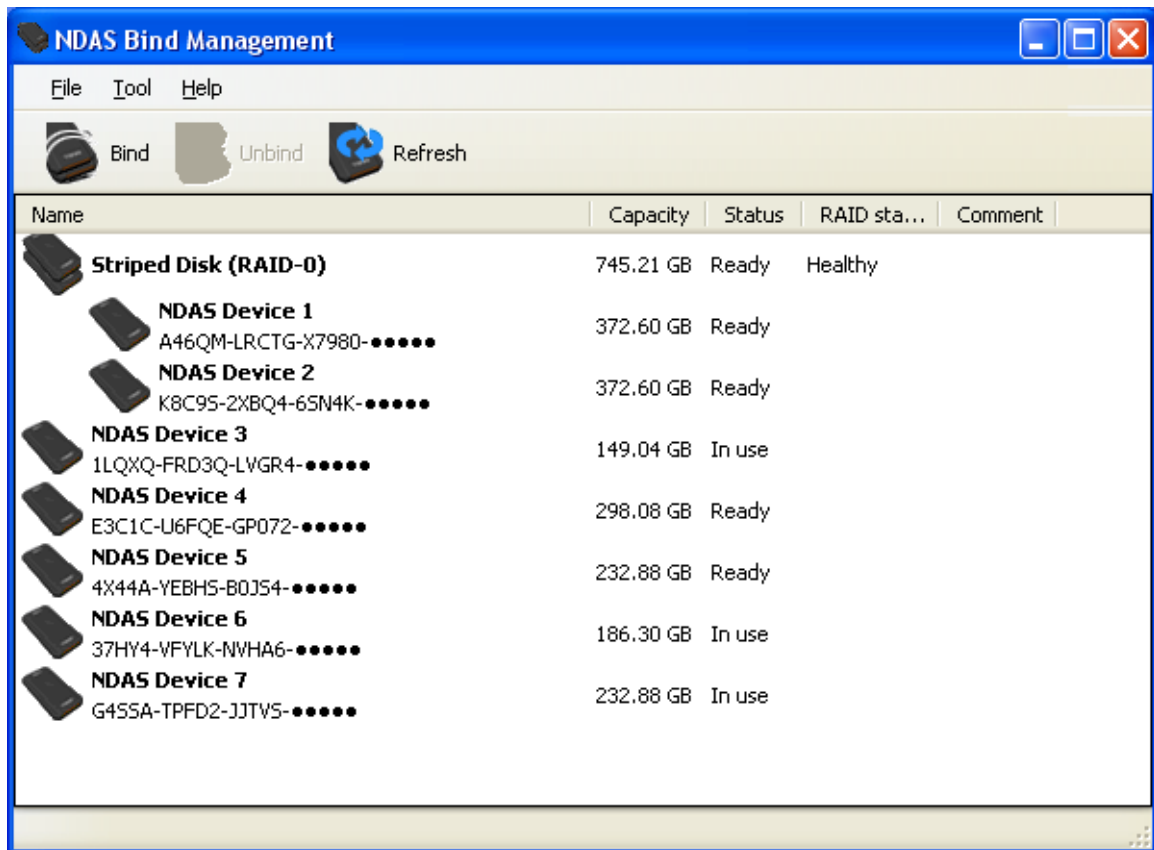
2. Select NDAS devices to use as bind members then click **Next** to proceed.



Click **Finish** to exit



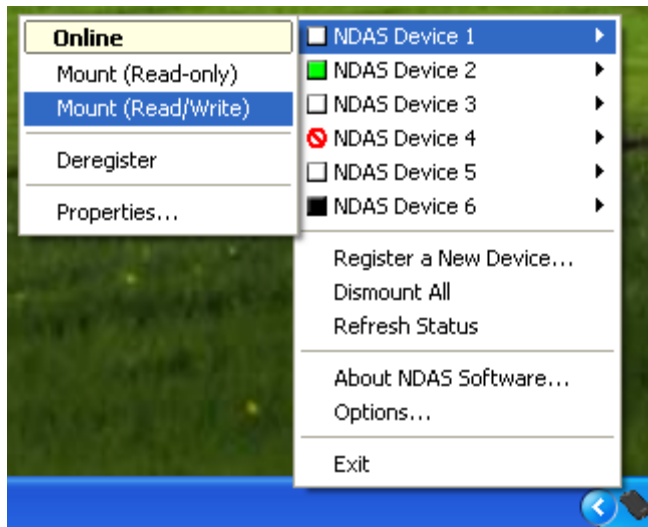
3. Check the result pages whether the bind operation is completed successfully.



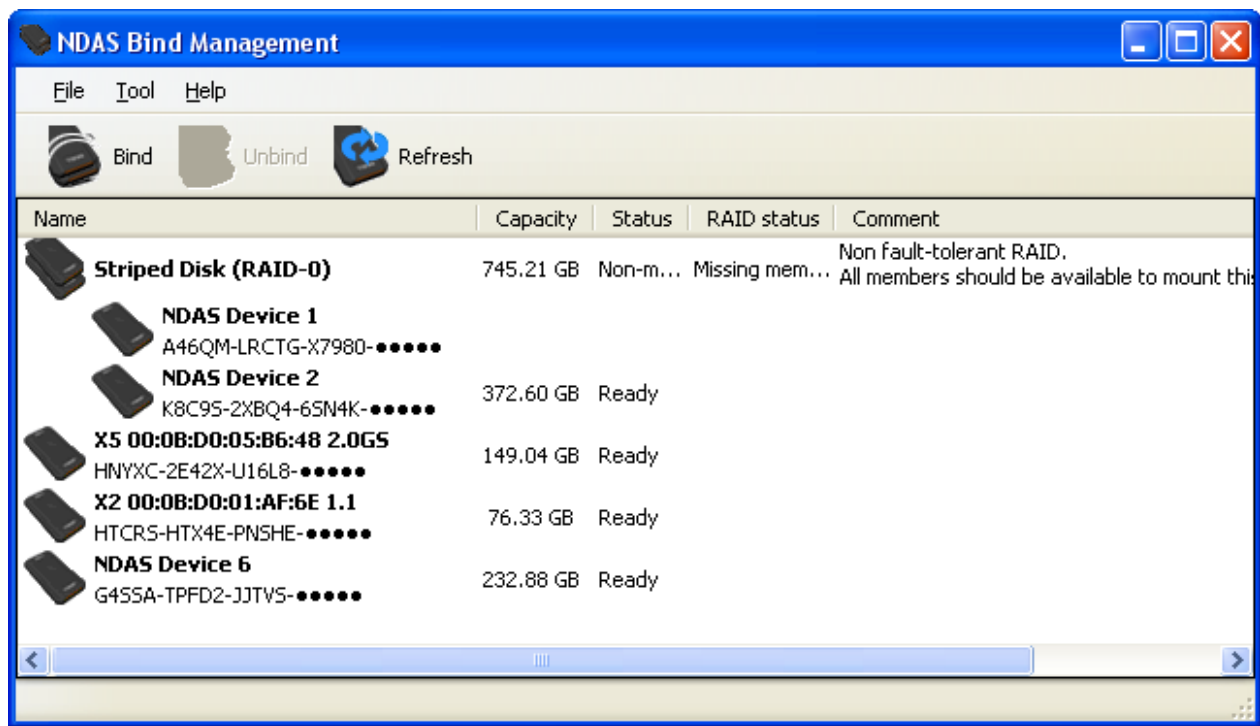
## 7.6 Using bound devices

After binding, you can mount the bind as a usual NDAS device. But you need to format the devices to use. To do so, select any one of the Bound NDAS device and Mount (Read/Write). "Found New Hardware Wizard" may appear. Click **Next** and proceed in finishing the wizard.

Please format the new NDAS bind according to "**Chapter 9 Formatting NDAS devices.**"

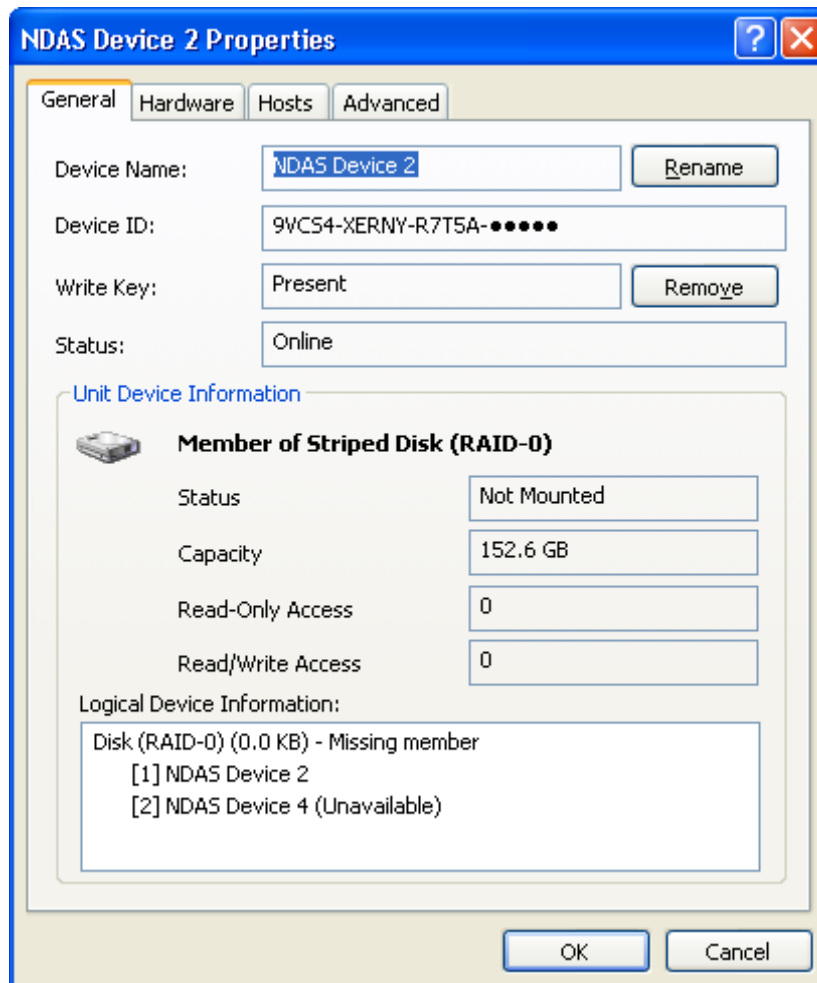


In some cases, "Mount (Read/Write)" and "Mount (Read-only)" menu can be disabled. This means that the bind is not in mountable status. You can check further information at "Properties" menu and NDAS Bind Management.

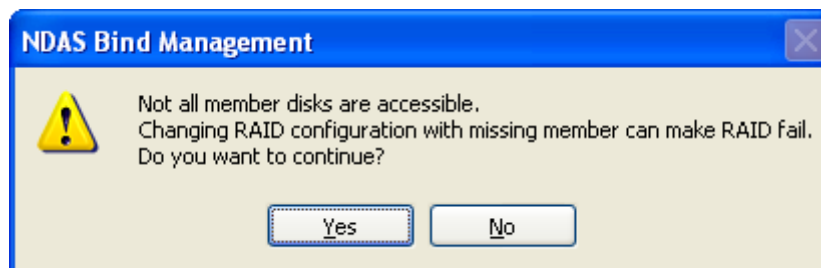


In this case, NDAS Device 1 is missing.

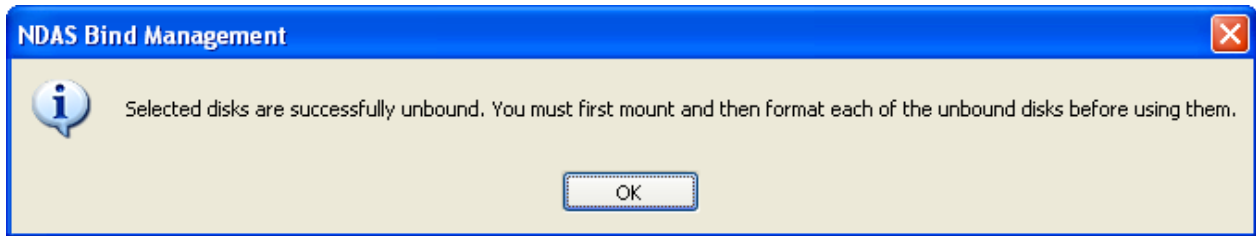
Alternately, click on the disk property on NDAS Device Management for missing disk information.



This can be caused by the disk hardware failure, network disconnection, etc. Unfortunately the data can not be recovered since it was bound as RAID-0. To get the rest of data on the functioning disk, you need unbind from **NDAS Bind Management**. Click on “Unbind” on the **NDAS Bind Management** and click on “Yes” to proceed.

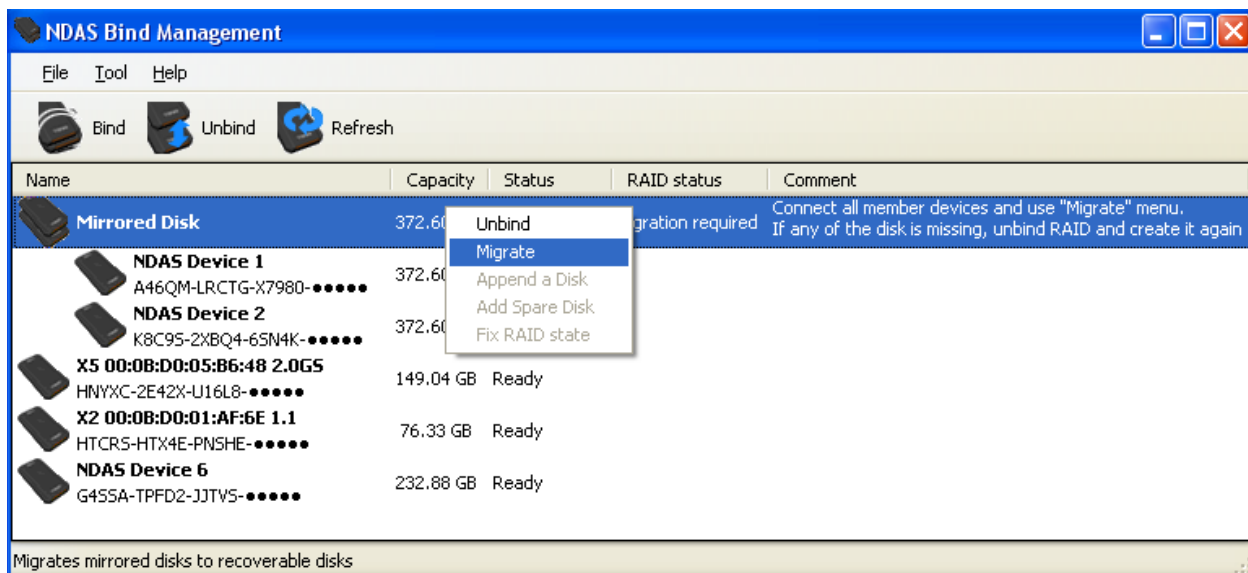


Once the disks are unbound, they need to be formatted in order to be functioning.



## 7.7 Migrate from previous version of the NDAS software

Some bind types that are created by previous version of the NDAS software need a migration to be used by current version of software. Once migrated, the bind cannot be used by the older version of software anymore.



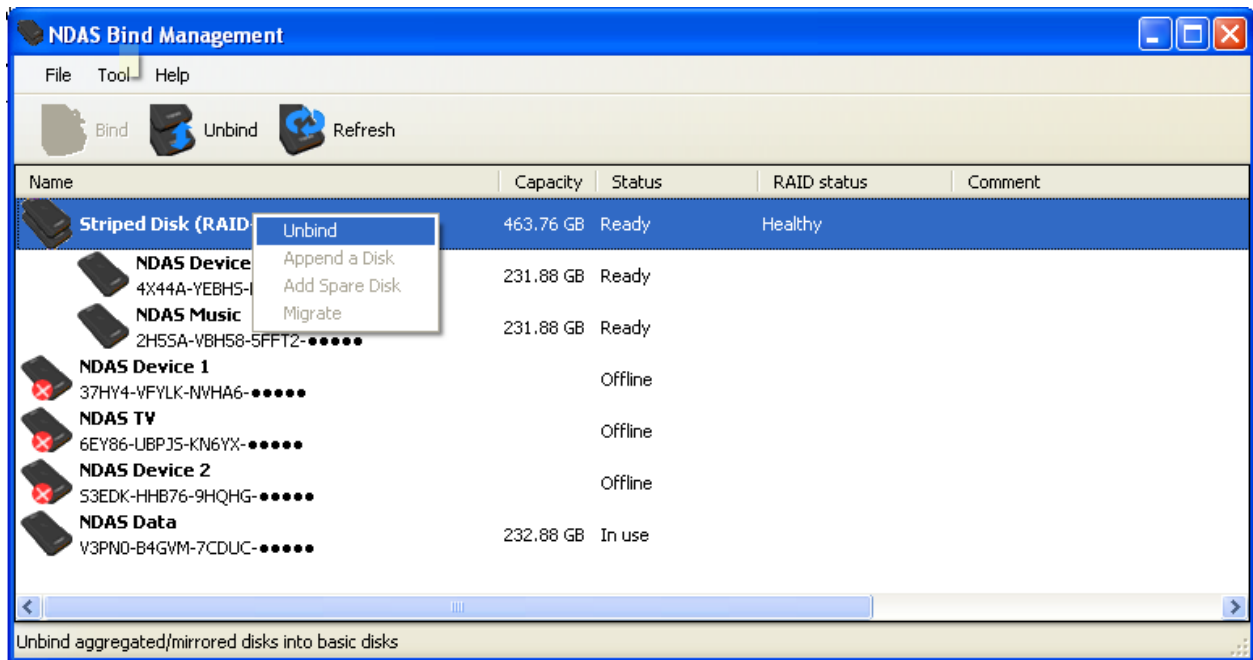


## 7.8 Unbind

You can unbind the bound NDAS device by selecting it and using "Unbind" button or menu. If any member device is not available when unbinding, bind information on that device will not be updated. You need to unbind again for the device.

### Warning:

Data on aggregation, stripe (RAID0) bind types are not accessible once unbinding is done. You can still use the devices as a basic disk after unbinding Mirror (RAID1) but data on each device may not be valid if the bind was not in **Healthy** state.

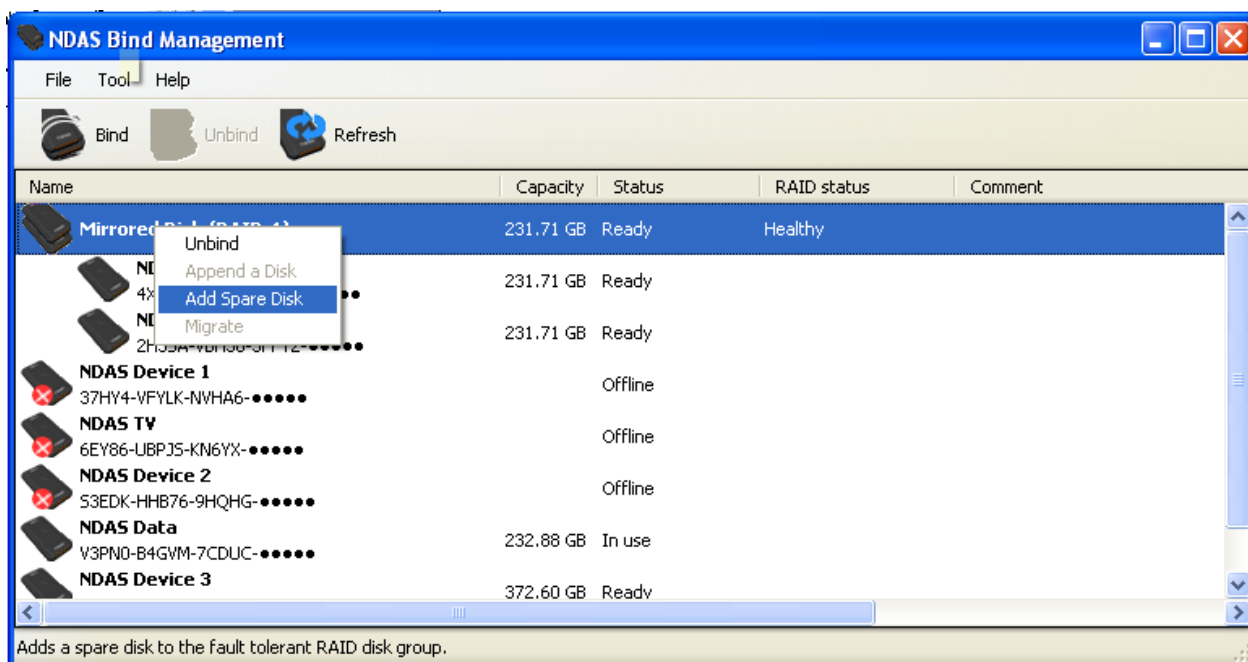


## 7.9 Managing Bind

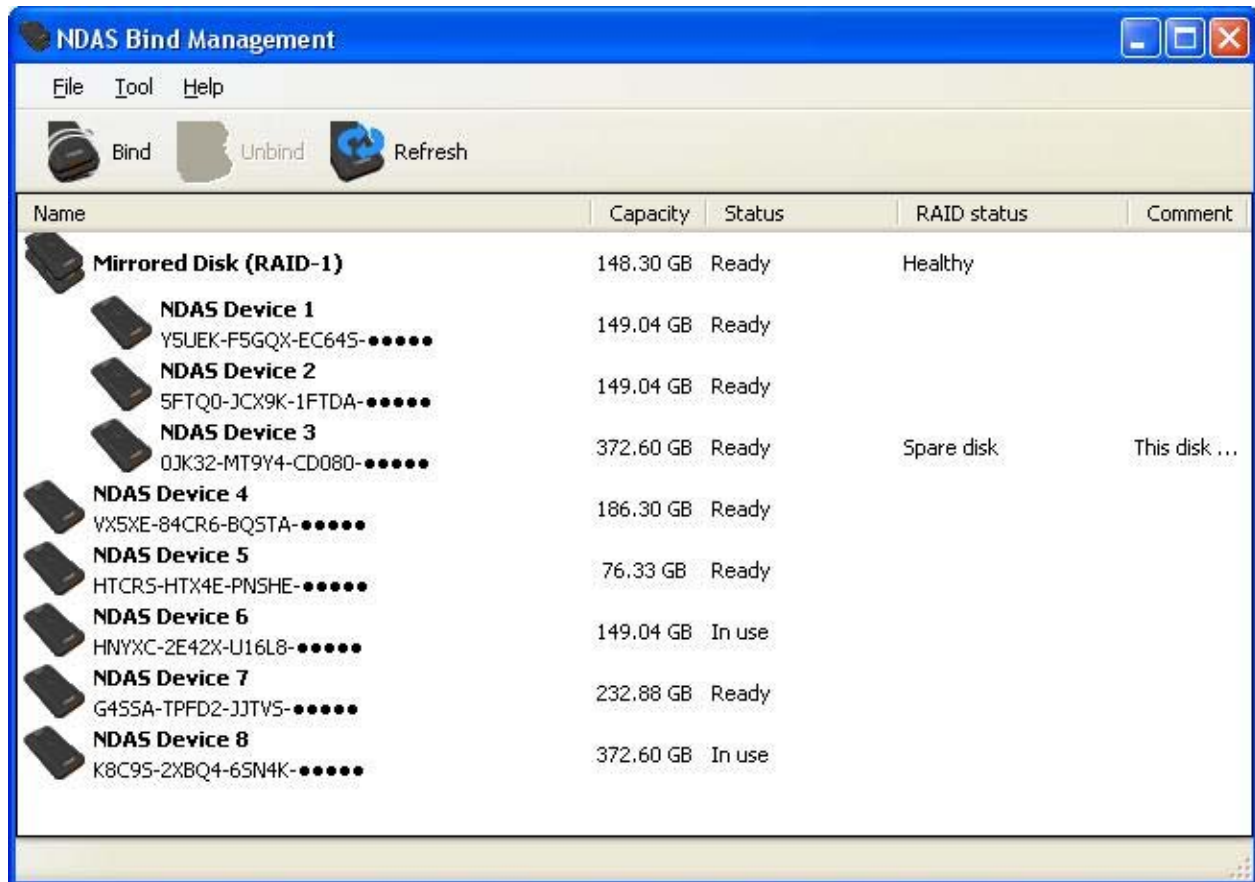
There are some operations that can change configuration of bind after it is made and used. Bind configuration can be only changed while it is not used by any PCs. You can check what operation is available by right clicking on the bound device or each member device. Each operation menu becomes available only when the operation can be applied.

### 7.9.1 Add Spare Disk

You can add one spare disk to Mirror (RAID1) bind type. If Mirror (RAID1) bind has a spare disk, spare disk will be used when one of the bind member devices is unavailable or found to be defective. Spare disk should be large enough to be a member of Mirror (RAID1).

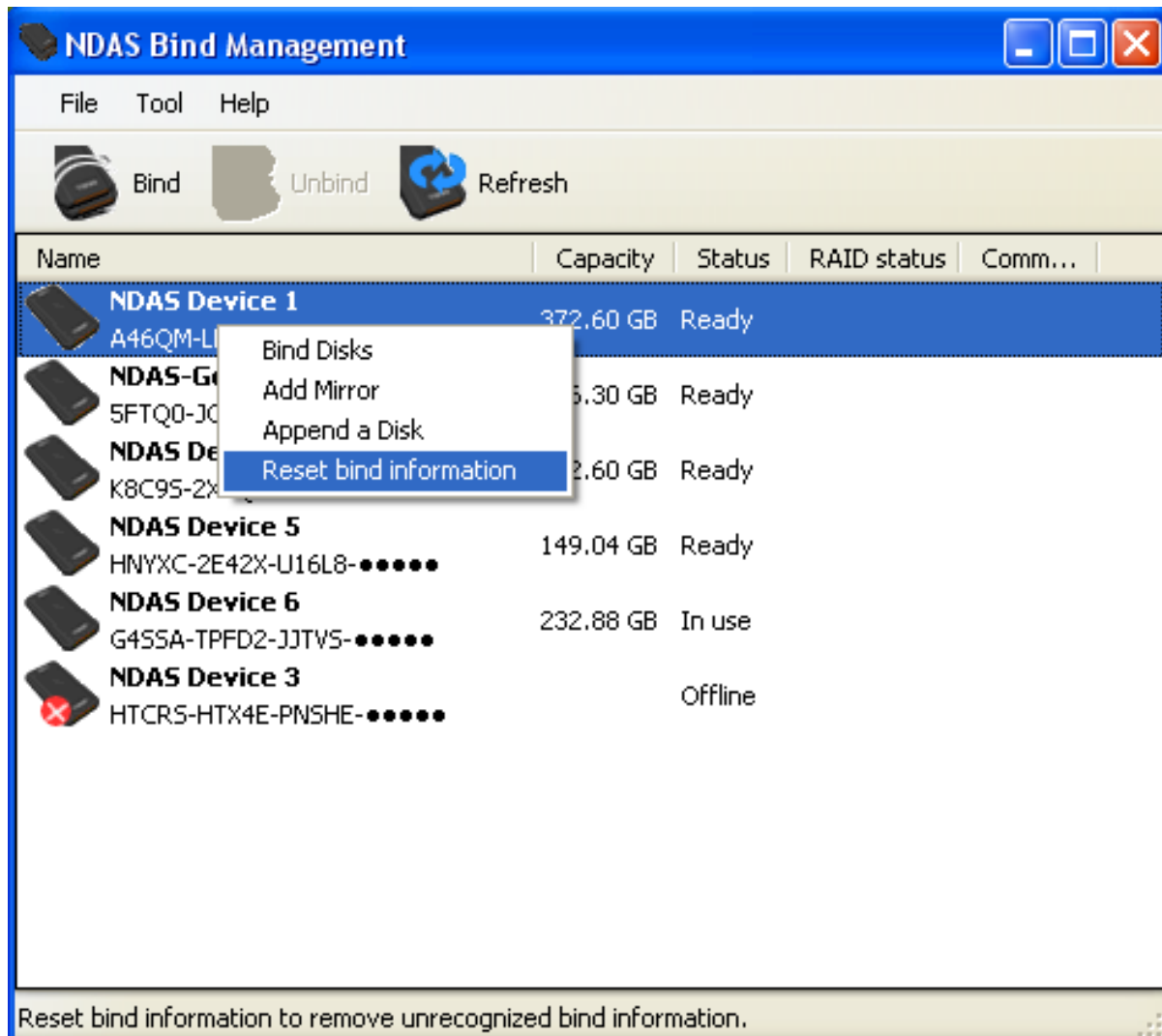


After a spare disk is added, **NDAS Bind Management** indicated the spare disk.



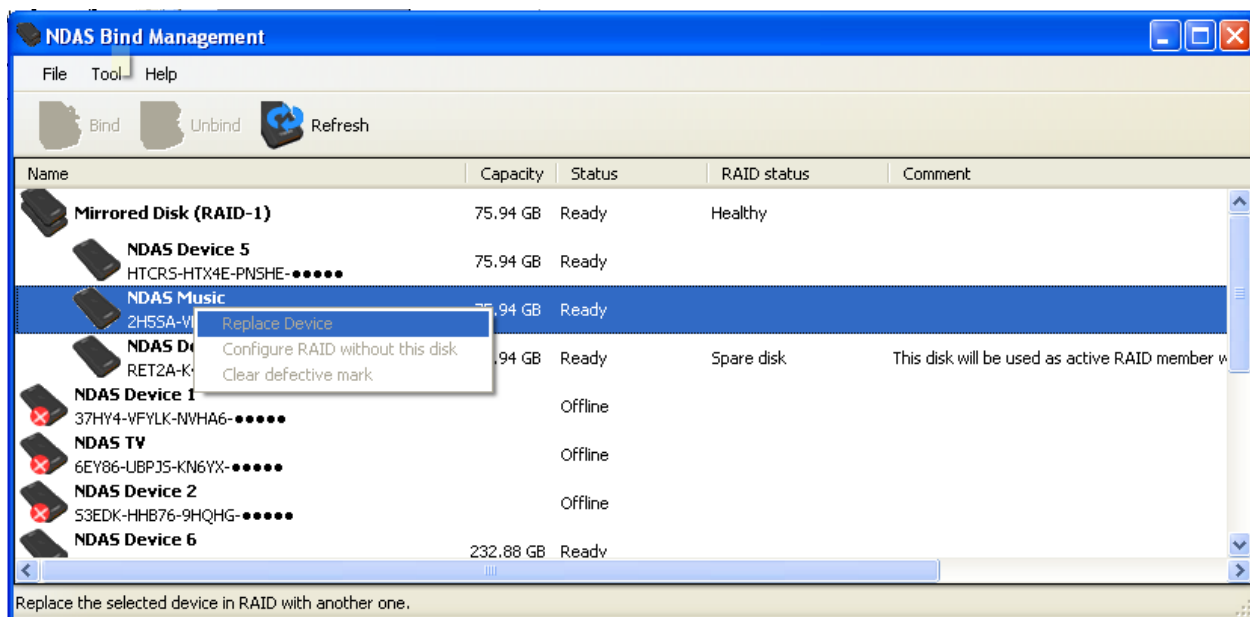
## 7.9.2 Reset Bind Information

Bind information is stored on the disk. And it can be corrupted or may not be valid for some reason, such as a replaced disk and/or disk IO error. You can use **Reset bind information** menu to reset this information to a default value.



### 7.9.3 Replace Device

You can replace a member of Mirror (RAID1) bind. You need to use this menu when the hard disk has bad sectors or a NDAS device becomes unavailable and you want to replace the unit with another NDAS device. Once a member is replaced, it may need synchronizing.

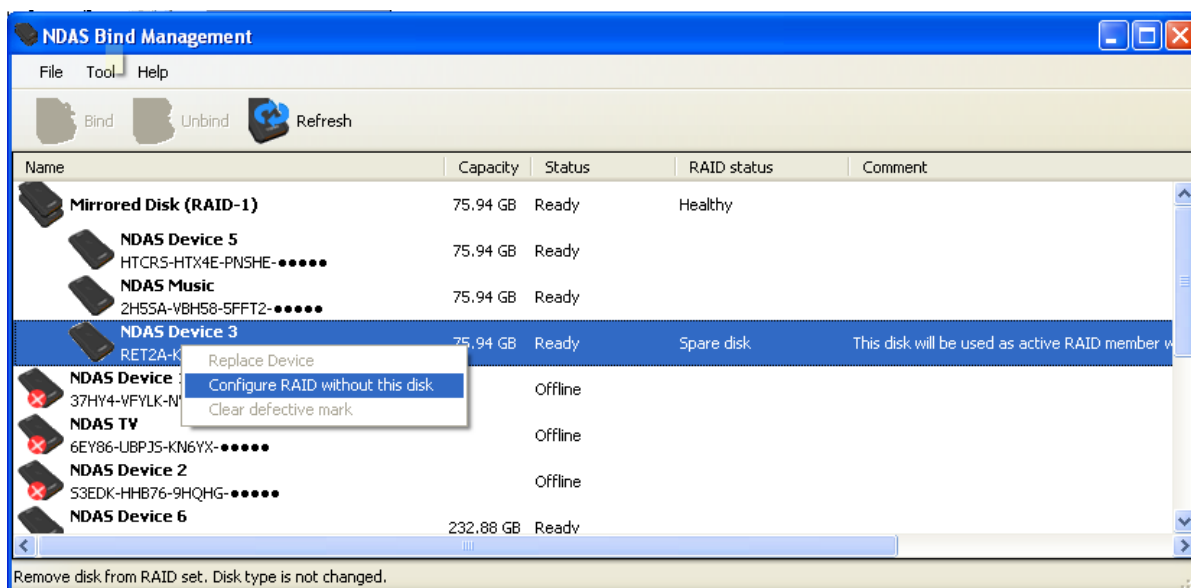


### 7.9.4 Clear Defective Mark

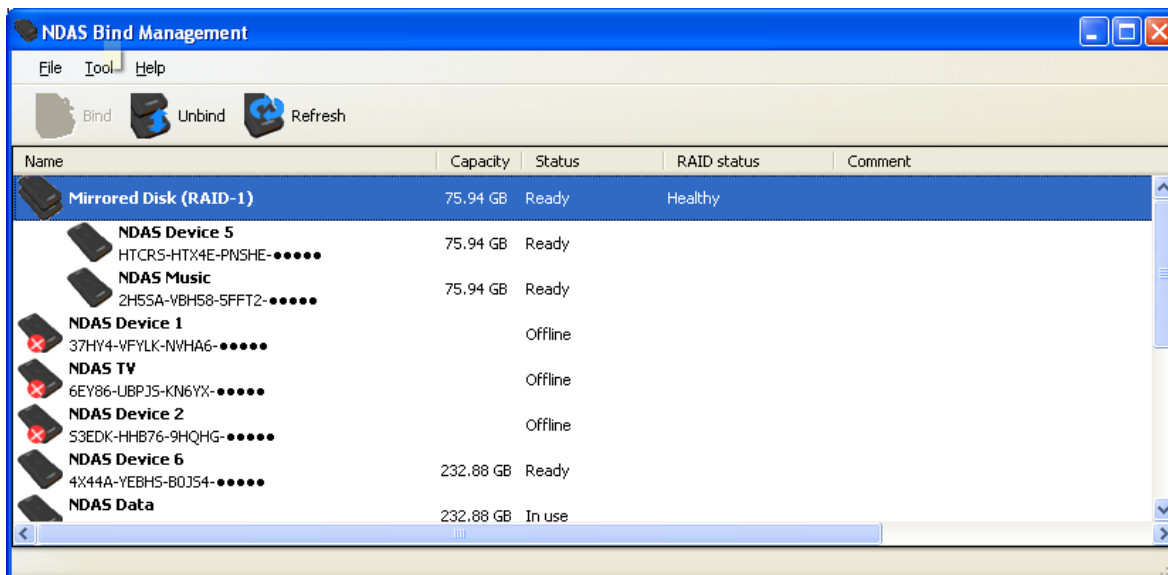
If any bad sectors are detected while accessing Mirror (RAID1) bind, the device with bad sectors will be marked as defective disk. In most case, it is recommended to replace the disk. But if you want to continue to use the disk, you can just clear the defective mark to retry.

### 7.9.5 Configure RAID without this disk

If Mirror (RAID1) has a spare disk, you can remove one member disk using **Configure RAID without this disk**. This operation can be useful if you want to remove a defective member or want to remove a spare disk.



After **Configure RAID without this disk**, NDAS Bind Management display new RAID set



## 7.10 NDAS Bind Terms

### Degraded mode

Even if one NDAS device fails while accessing Mirror (RAID1) bind, you can still access the data. However, redundancy is not available in this state and it is called degraded mode. If another NDAS device fails in this mode, Mirror (RAID1) becomes unusable. So you need to replace the defective device as soon as possible.

### Spare disk

A spare disk is automatically used when Mirror (RAID1) enters degraded mode. The spare disk will be used as an active member of RAID. Even if spare disk is used, RAID will be in degraded mode during synchronizing.

### Irreconcilable state

When each member of Mirror (RAID1) is used in degraded mode independently, the data on the devices may have a different copy of data. Because both copies may be valid data, it can not be resolved automatically. A user needs to solve this case by replacing one of the disks or unbind.

### Resynchronization

When using Mirror (RAID1), same data is written to each member device. But when one of the devices becomes unavailable or a device is added later to the bind, both devices won't have the same copy of data. So Mirror (RAID1) system will need to copy data from one device to another and this process is called resynchronization.

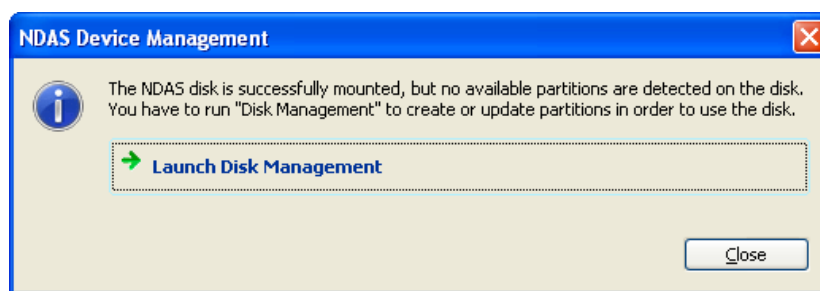
### Out-of-sync

The member of Mirror (RAID1) is not identical to another member and may have not valid data.

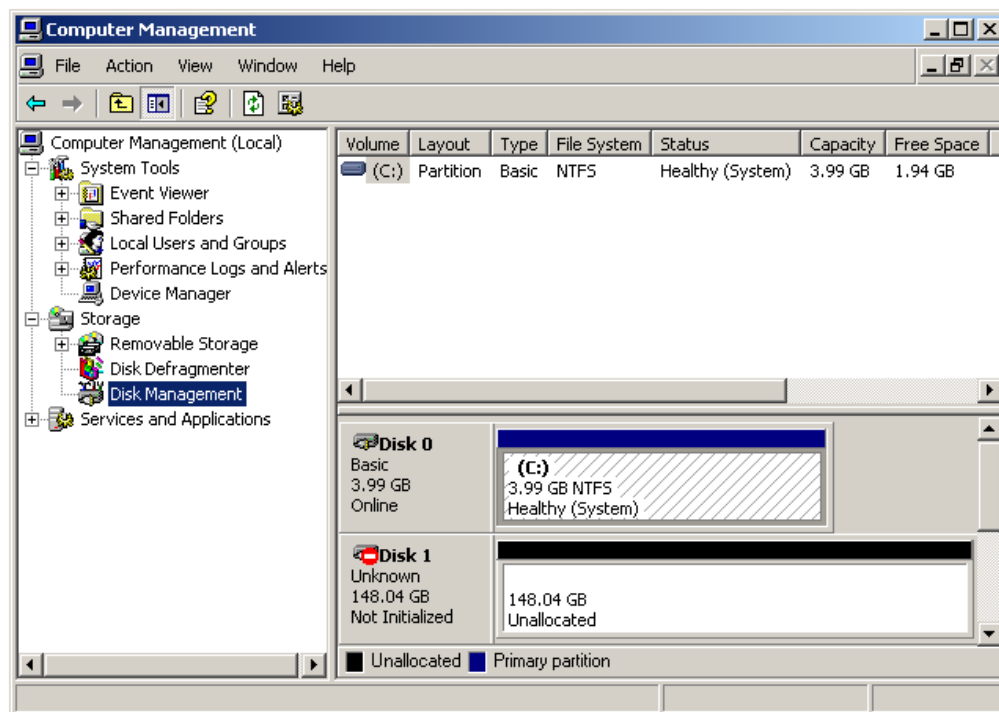
## 8 Formatting NDAS device

### 8.1 Initialize NDAS device

Note: This step is needed when NDAS devices are bound or NDAS Device is used for its first time. This step is normally led automatically (Launch Disk Management) right after a raw disk is mounted. If it is not ran automatically, proceed step 1 below.

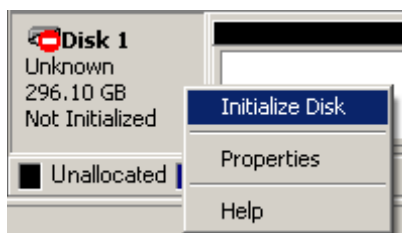


1. Right click **My Computer (or Computer)** and select **Manage**.
2. **Computer Management** window will appear. Click **Disk Management** under **Storage** on left pane.
3. **Disk Management** window will list all the disks in the computer.



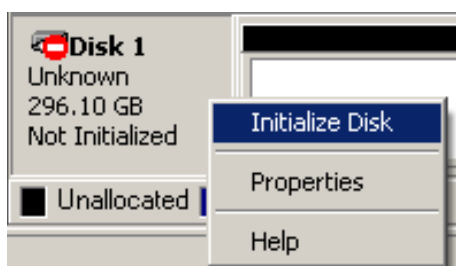


4. Find the NDAS device you want to initialize.



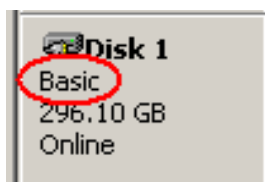
- The NDAS device is usually indicated by **Not Initialized**.
- If the NDAS device is described as **Basic** or **Healthy**, skip to **Chapter 8.2 Partition NDAS device**. Otherwise, go to next step.

5. Initialize NDAS device



- Right click on the Disk # that pertains to your NDAS device and select **Initialize Disk**.
- **Initialize Disk** window will appear. Select the NDAS device and click **OK**.

6. NDAS device will be automatically initialized



- **Unknown**  **Disk 1** becomes **Basic** .

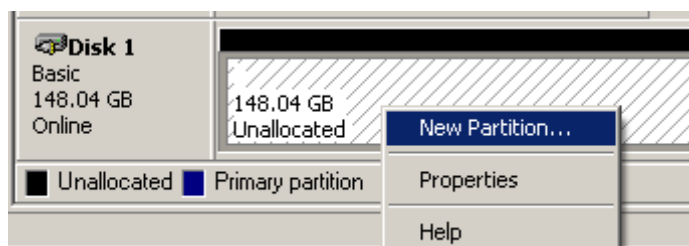
**Note:** It is VERY important that your NDAS device is listed as a Basic Disk and not a Dynamic Disk.

7. Initialization is completed.

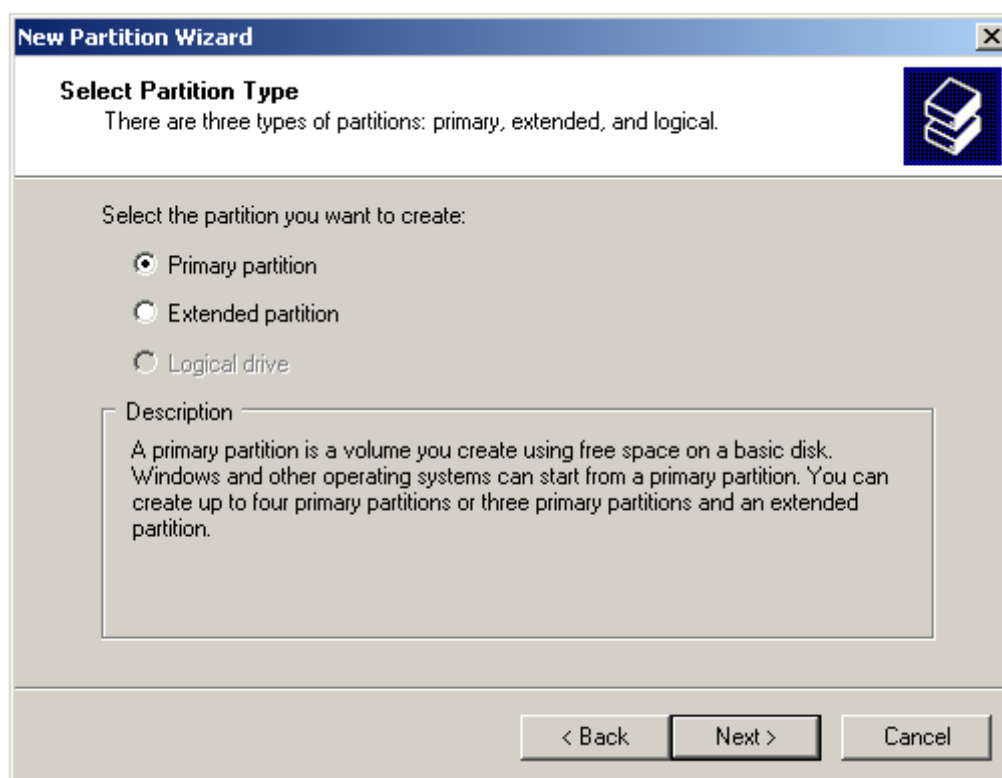
- Before NDAS device can be used, it must be partitioned. See **Chapter 8.2**

## 8.2 Partition NDAS device

1. From the **Disk Management** window, find the NDAS device you wish to format.
2. Right click and select **New Partition**.



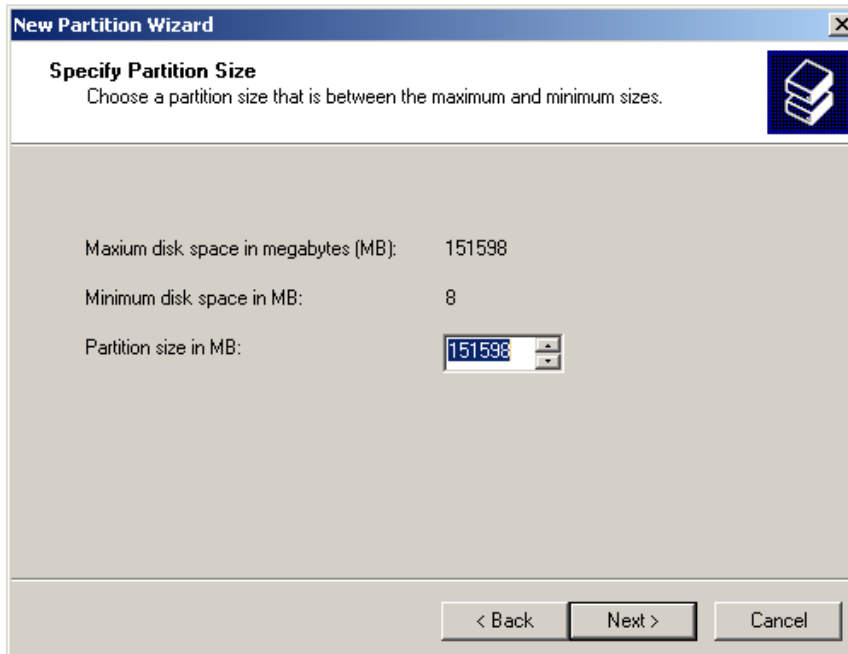
3. On **New Partition Wizard**, select the partition you want.



4. **Select Partition Type:**
  - Select **Primary partition**.
  - Click **Next**.

## 5. Specify Partition Size:

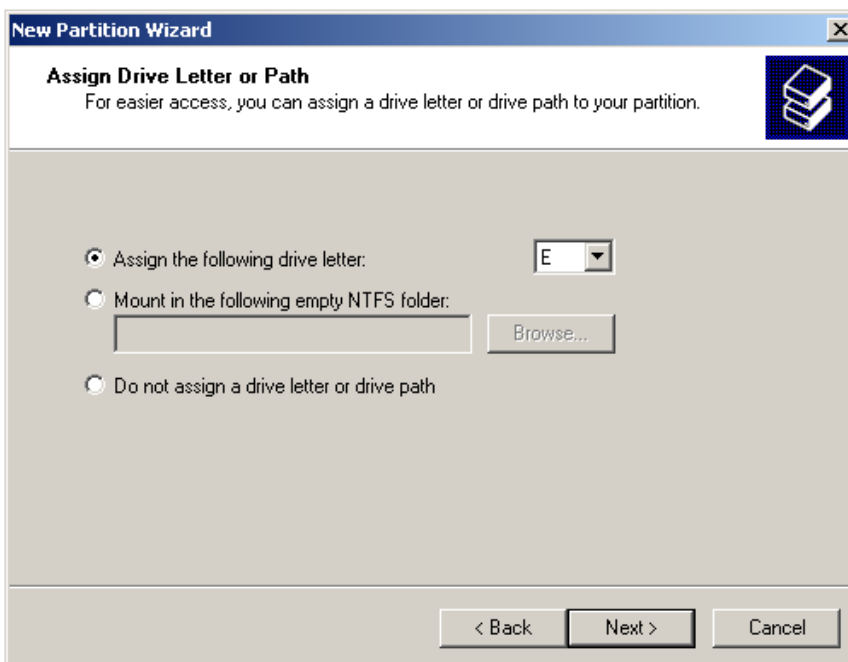
- Click **Next**.



The screenshot shows the 'New Partition Wizard' window at the 'Specify Partition Size' step. The title bar reads 'New Partition Wizard'. The main heading is 'Specify Partition Size' with a sub-instruction: 'Choose a partition size that is between the maximum and minimum sizes.' Below this, there are three rows of information: 'Maxium disk space in megabytes (MB):' with the value '151598', 'Minimum disk space in MB:' with the value '8', and 'Partition size in MB:' with a text box containing '151598'. At the bottom right, there are three buttons: '< Back', 'Next >', and 'Cancel'.

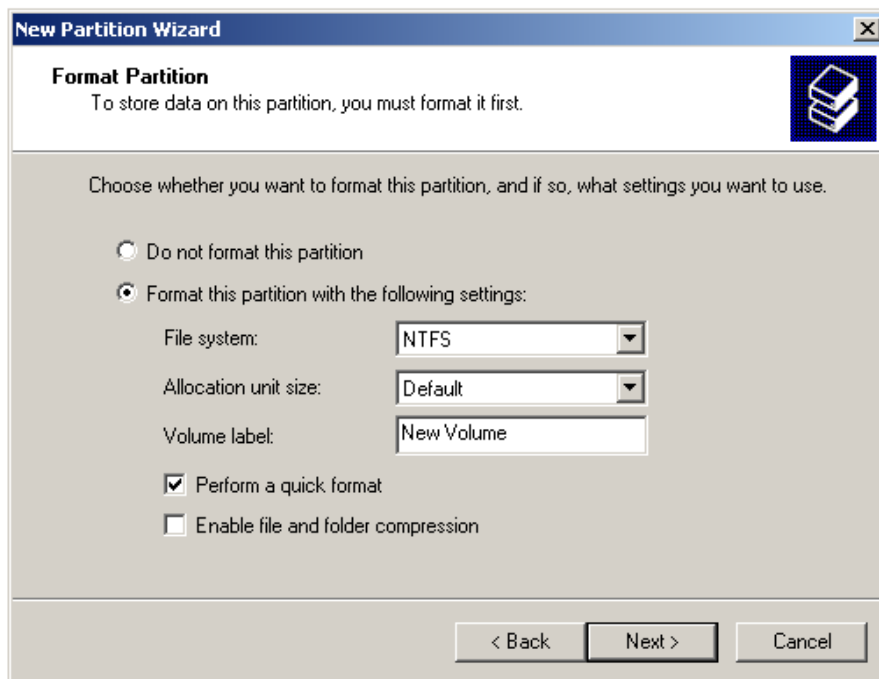
## 6. Assign Drive Letter or Path:

- Select **Assign the following driver letter**.
- Choose a letter for the drive from list.
- Click **Next**.



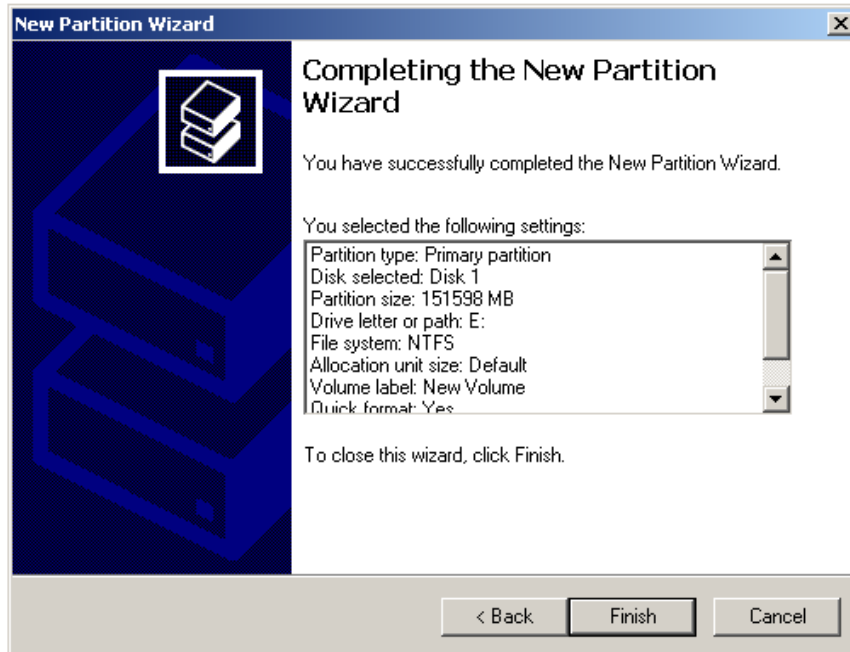
The screenshot shows the 'New Partition Wizard' window at the 'Assign Drive Letter or Path' step. The title bar reads 'New Partition Wizard'. The main heading is 'Assign Drive Letter or Path' with a sub-instruction: 'For easier access, you can assign a drive letter or drive path to your partition.' Below this, there are three radio button options: 'Assign the following drive letter:' (selected), 'Mount in the following empty NTFS folder:', and 'Do not assign a drive letter or drive path'. The first option has a dropdown menu showing 'E'. The second option has a text box and a 'Browse...' button. At the bottom right, there are three buttons: '< Back', 'Next >', and 'Cancel'.

## 7. Format Partition:

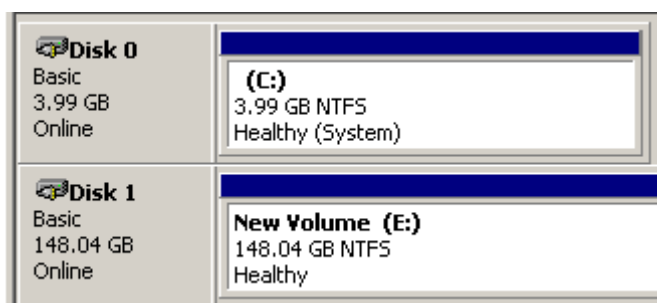


- Select **Format this partition with the following Settings.**
  - File System: **NTFS**
  - Allocation unit size: **Default**
  - Volume Name: Enter a name for the disk.
- Select **Perform a quick format (Recommended).**
- Click **Next.**

8. When partitioning is finished. Click **Finish**.



- You can see the partitioned disk.

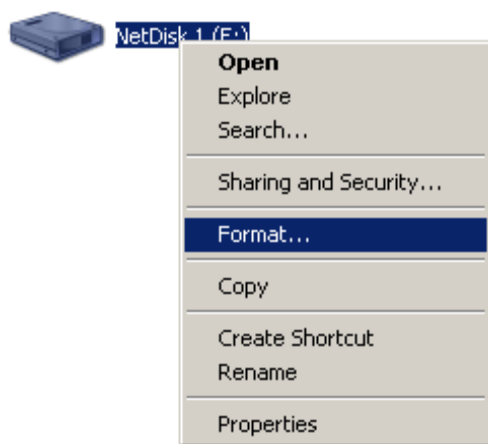


## 8.3 Format NDAS Device Through My Computer (or Computer)

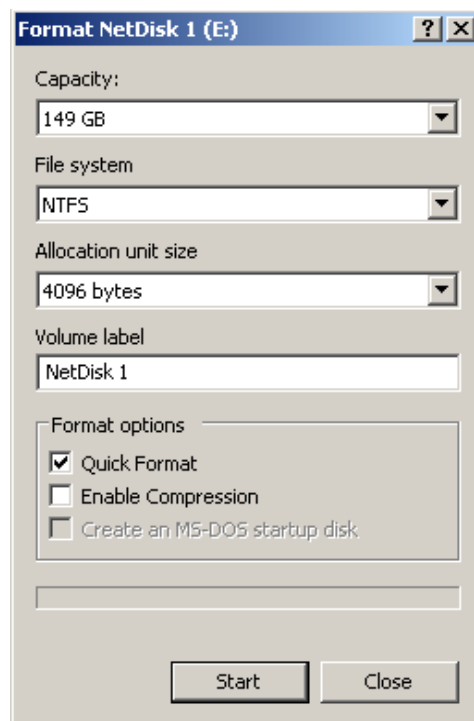
1. Double click on **My Computer** at **Start menu**.



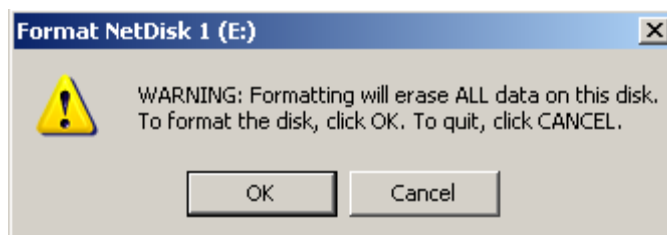
2. **My Computer** window will appear. Right Click on your **NDAS Device** choose **Format**



3. The **Format** window will appear with a few options. Check the box that says **Quick Format (Recommended)**



4. A **Warning** will appear asking if you are sure you want to format the drive. Click on **OK**



5. Click on **OK** once the format has completed.



## 9 Uninstall

Before you can uninstall a NDAS software, you must close all applications that are using the NDAS device. NDAS Disk Management, NDAS Bind Management, Windows Explorer that is accessing NDAS device must also be closed.

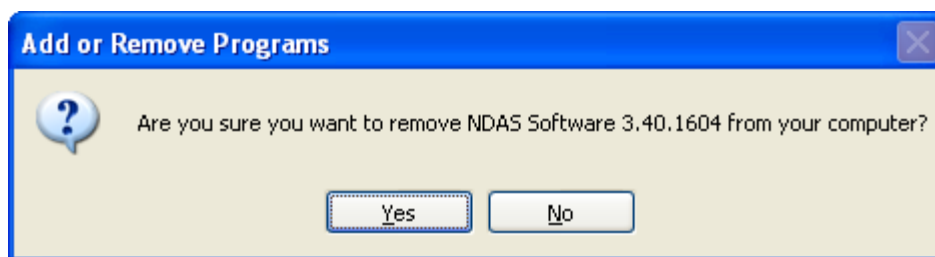
- **Close NDAS Disk Management by selecting Exit.**



- **Uninstall NDAS device.**

**Go to *Start -> Control Panel -> Add or Remove Programs*.**

**Select the NDAS Software and click on Uninstall.**



**Note:** A warning window may appear if any of the NDAS devices is still in mounted state. Click Cancel and Dismount the NDAS devices.

- **Restart the PC once uninstallation is finished.**



## 10 NDAS Command Line Utility

Included with the Driver 3.11 or later is an option to run your NDAS software from a command line interface. **\*Please Note: These options are for advanced users only\***

1. Open your Command Line and type in the following command.  
`cd "\\Program Files\NDAS\System"`  
This should bring you to the path `C:\Program Files\NDAS\System`
2. Next, type in '`ndascmd /?` '. This will load the NDAS command line help.  
The Syntax for the interface should be as follows.  
`ndascmd <command> [parameters]`

The command can be one of the following.

- `register <device name> <device id> [write key]`
- `unregister <device number>`
- `list devices`
- `list logdevices`
- `mount [/wait] <ldn> — /device <dn> ro—rw`
- `unmount [/force] [/wait] <ldn> — /device <dn>`
- `dismount [/force] [/wait] <ldn> — /device <dn>`
- `syncdismount <ldn> — /device <dn>`
- `activate <device-number>`
- `deactivate <device-number>`
- `query device hosts <device-number>`
- `purge <volume-path> (e.g. C: or \\? \C:)`

### NDAS Command Notes

- `ldn` - Logical Device Number - Can be found by using 'list devices'
- `dn` - Device Name - Name given to the NDAS device in the NDAS software

## 11 FAQ

For the most recent list of FAQs, please visit <http://www.Ximeta.com>

### 11.1 General

#### 1. What can NDAS device be used for?

NDAS device can be used with a variety of applications. It is ideal for all users that cannot afford NAS systems, such as small to medium businesses, SOHO (Small Office Home Office), workgroups, departments, schools and public institutions. NDAS technology's convenience and low cost provides the best storage solution for home / office networking.

- Use as storage for Personal Computer and Home Networking (storing and sharing files, backup/archiving, etc.)
- Expanding storage requirements.
- Business primary or secondary network storage.
- Public institution's storage for data archives, disclosed data, backups, and data conservation.
- Multimedia storage device (MP3s, Digital Photos, Digital Video).
- Multi-platform networking (Simultaneous read-only use from Macintosh and Windows)
- Non-PC / Non-Computing applications (security, CCTV, technograph recording, MRI, entertainment).

#### 2. How is NDAS different from NAS or SAN?

NDAS is a better alternative to NAS or SAN. NDAS is much more cost-effective, efficient and easy to use. It is for users looking for lower costs and storage associated with backup / archiving. Although both NDAS and NAS are storage devices that are implemented over a network, NDAS takes up less space than NAS or SAN products. NDAS utilizes NDAS technology allowing it to connect the hard disk directly to a network without a server. In NAS, the hard disk must be connected to a storage server, which must also be connected to the network.

#### 3. For NDAS mode, do I need drivers installed on each computer using NDAS device?

Yes, the drivers need to be installed on each computer that wants access to NDAS device. However, if you are using Windows Sharing, only one computer will need the software installed (Computer must be on as a "Host" computer). The other computers will not need it.

## 11.2 Windows 2000/XP/Vista

### 1. I am having trouble using Multi-write over wireless/wired connection. What do you recommend?

Try a wired connection for our 3.X drivers and compare how it works. If you are using wireless with other computers, we recommend enabling the hard-wired computer first, then the wireless computer. Please make sure you are running the same NDAS software version on all computers. When using wireless, we also recommend 802.11g. When using 802.11b, we highly recommend hardwiring your computer when doing large file transfers because of the low bandwidth associated with 802.11b.

### 2. How should I format NDAS device?

We recommend formatting NDAS device via NDAS (Ethernet) mode. If using NDAS device as a USB device only, then it is OK to format via USB. It is also recommended that you format NDAS device to NTFS if using Windows 2000/XP. Our 3.X drivers are supported on both NTFS and FAT32, while 2.X drivers support FAT32. It is recommended to use NTFS because FAT32 does not allow file transfer exceeding over sizing 4 Giga Bytes. You can sure Disk Management (Windows) or Disk Utility (MAC) to do the format.

### 3. How do I disconnect NDAS device?

We always recommend using the Dismount option from your NDAS Device Management tool if connected via NDAS (Ethernet). You can use the "Safely Remove Hardware" icon in your System Tray to stop the NDAS device before disconnecting (this applies to both USB and NDAS mode). Close all windows that may be accessing the NDAS device.

### 4. When I try to write to NDAS device I get a "write protected" error and cannot write to the disk.

The permissions scheme may need to be reset. Try disabling the NDAS device on all machines first, then re-enable them one by one. If that doesn't help, try rebooting the machines and power cycling NDAS device.

### 5. Can I set the "My Documents" folder to point to my NDAS device instead of a place on my local hard drive?

We do not recommend doing this, as your computer will be dependent on this location during software installation and uninstallation. You may receive Windows Error Messages looking for a non-existing location.

**6. My computer is running very slow when my NDAS device is enabled, and the ACT light on my NDAS device is solid yellow. What is going on?**

This is a result of a bad connection between the computer and the NDAS device. Please make sure that you are using only network switches and routers, and not using any network hubs. Also, if you have any software firewalls installed on your computer (i.e. Norton Internet Security, McAfee Personal Firewall, etc.), make sure to add ndasmgmt.exe and ndassvc.exe into their list of programs to Allow with full access. You can also try disabling your Antivirus software to see if that makes a difference. Please also try power cycling your NDAS device and switch as well.

**7. Sometimes when I transfer files to my NDAS device, why is the speed so slow?**

Try updating your Network Card's drivers to the latest from the manufacturer. If your network card has the option of changing the transmit and receive buffers to both 128 (in the card's properties in device manager), please try doing that. If you have an nForce chipset, try updating your Nvidia nForce drivers to the latest Unified Drivers from Nvidia's website. Please also make sure that you are using 100/1000 MB switch as well.

**8. I've installed my NDAS device and it shows up as a Black Dot.**

Note: If you are using NDAS device via USB, then no software installation is required, therefore, please ignore the Black Dot. Please check to make sure of the following:

- A. You are using the latest version of our software which can be found at [www.Ximeta.com](http://www.Ximeta.com)
- B. Power cable is plugged in tightly, and NDAS device hard drive is spinning.
- C. There is a link light on the port where it is connected to (switch), and the dip switches (if any) are in the down position.
- D. Please make sure that any firewall/antivirus software is disabled before installing. The latest versions of antivirus software have a new feature called script blocking. Please also ensure that this feature is disabled before continuing
- E. You might also need to enable our protocol and programs to run in your Antivirus/Firewall program as well.
- F. Even after you have done these things, it is still possible that the firewall/antivirus software is blocking the access. For troubleshooting purposes, if it still does not work, please try uninstalling the firewall/antivirus software, reboot, then reinstall our software to see if it works. If it works, then you can go ahead and reinstall the antivirus/firewall software.
- G. If using Wireless, then please make sure that you are connected to the wireless router and that your signal is good. Try going to your wireless

router's website and check for the latest firmware and also check for the latest drivers for your wireless card as well.

- H. Try plugging in via wired connection and see if it works that way.
- I. Power-cycle your switch/router.
- J. If you are using VPN software, please try unchecking the box for Deterministic Network Enhancer or any other VPN protocol in your NIC Properties.
- K. Check to see if you have any Spyware installed.
- L. Make sure that your network adapter and router are compatible with the NDAS connection. The NDAS connection uses a "layer 2" type protocol.
- M. For further help, please contact support@Ximeta.com.  
For European support, please contact eurosupport@Ximeta.com.

**9. When adding NDAS device to my computer, why does the "Next" button stay gray?**

You may not have entered all the alpha-numeric values correctly. There are no letter "O"s; please verify that you have used the number "0" (zero) for anything resembling an "O." Also please check your other letters as well; two V's may look like a W. Start by entering only the NDAS device ID. The ADD button should not be grayed out if the correct ID is entered. Once it is not grayed out, proceed to add the Write Key as well. Please also make sure that there are 20 characters for the NDAS device ID, not including the Write Key.

**10. Using Windows file sharing function, after reboot, share gets lost. Is there any work around?**

Create a batch file and place it in your startup folder. To create batch file:

- Open up notepad - type in "net share sharename=DriveLetter:path" (For example net share NDAS device =F:)
- Save the file as a .bat extension. For example, the file name would be called "NDAS.bat".

**11. I installed the NDAS device key but cannot see NDAS device in "My Computer." What should I do?**

Click on the NDAS device Management in your System tray and make sure NDAS device is mounted. There should be a dot next to your NDAS device, colored either Blue (Read/Write) or Green (Read Only). If it is a black colored dot, then please go to the FAQ: "I've installed my NDAS device and it shows up as a Black Dot."

If NDAS device is enabled, open "Computer Management" by right-clicking on "My Computer." Go to "Manage," then click on "Disk Management." Check if your NDAS device is recognized. It should show up as Disk 1 or Disk 2 or a different

number depending on the number of drives that you have on your computer. Right-click on the appropriate "Disk #" and click "Initialize." if that option exists. Also make sure that the NDAS device is partitioned and formatted. If you see something that says "Unallocated," then right-click on the "Unallocated," create a partition, and then format the drive to your file system preference. To use NDAS device with other Operating Systems such as Windows 98SE / ME, and Mac OS X, you will need to format your NDAS device to FAT32 for it to be recognized.

\* Formatting/Repartitioning will erase any data on the drive.

**12. Why am I getting a "Data has been corrupted" message when I try to open or copy a file?**

Open up Command Prompt and run "chkdsk" for the NDAS device drive. Go to Start - Run - type in "cmd" without the quotation marks. Then type in "chkdsk NDASDeviceDriveLetter: /R" (For example, if your NDAS device shows up as drive letter E: in My Computer, you would type in the following: chkdsk E: /R)

**13. Why do I keep getting this error message: "The device is a Generic volume cannot be stopped right now. Try stopping the device again later." ?**

Close any windows that are displaying your NDAS device and retry what you were doing earlier. If you continue to get that error message, reboot your computer. However, if you were copying a large amount of files, it is possible that it is still being copied in the background from its cache. You may need to wait until it is finished before continuing. If you are still having problems then you can shut down the computer, remove the computer from the network and then powering the computer back on.

**14. I just installed NDAS device; why is the NDAS device showing up as a red color?**

Try unplugging your NDAS device's power cord, wait about 10 seconds, and plug it back in. If this does not work, restart your computer. Please disable your firewall/antivirus software (you may need to configure the software to allow your NDAS device to run). If this does not work, plug NDAS device via USB to see if it is recognized. If so, recover the data and reformat the drive. While in USB, delete the partition and bring the NDAS device back to the Ethernet and format the NDAS device.

\* Formatting will erase any data on the drive.

**15. I keep getting Internal Error; Update Failed." What does this mean?**

Try updating to our latest drivers to see if that fixes the problem.

Before installing our NDAS software, please disable any Firewall/Antivirus software and also make sure that Script Blocking is turned off for antivirus software. If problems still persist, please try uninstalling the Firewall/Antivirus software and reinstall NDAS software. Also try updating your NIC drivers to the latest available from the manufacturer.

**16. I keep getting Autoplay when I plug in NDAS device.**

Open My Computer and go to Tools menu at the top. Click on Folder Options. Click on the View tab and go to Advanced Settings. Make sure to check the box next to the entry Hide extensions for known file types. Then, create a blank text file in the root directory of your NDAS device and name it "autorun.inf". Place this in the root directory of your NDAS device drive letter in "My Computer." SP2 users will have to use a utility called TweakUI from PowerToy (free to download) to disable the Autoplay feature.

**17. Why can't my computer go into hibernation or standby?**

You must have customer select the Allow suspend/hibernation box from the Options menu in NDAS device Management.

**18. I have clicked on the NDAS device Management on my desktop and nothing happens.**

The icon on the desktop is only used to launch our icon into the system tray, if for some reason it is not already there. The icon in the system tray is used for Mounting/Dismounting, Adding/Removing Devices, and switching modes for Read/Write on NDAS device.

**19. When I try to copy something to my NDAS device, why does the following show up: can not copy NDAS device Management: The disk is write-protected. Remove the write-protection or use another disk.**

You do not have Read/Write access. Click on the NDAS device Icon in your bottom-right system tray. Go to your NDAS device and then click on "Dismount". Now click on the system tray icon and go to your NDAS device and click on "Mount Read/Write."

**20. Why can't I format my whole NDAS device to FAT32?**

Windows 2000/XP comes with a limitation of only 32GB partitions that it can create. This is a Windows limitation and the only resolution is to use 3rd party partitioning software or use a Windows 98SE/ME computer to format the entire drive to FAT32. With our Multi-Write drivers, NTFS is recommended anyways for stability and performance purposes.

## 11.3 USB

### 1. I have plugged in NDAS device to my USB port and cannot see NDAS device in My Computer.

Make sure both dip switches on the back of the NDAS device (if any) are in the position (Power off NDAS device completely before doing so). Or, plug NDAS device into a different USB port on your PC. Or try using a different USB cable. With Windows ME/2000/XP and MAC, NDAS device uses the Operating Systems built-in USB drivers, therefore, no software is necessary. If you are using Windows 98SE, please check our website for the latest USB drivers at [www.Ximeta.com](http://www.Ximeta.com). If using Windows98SE/ME, and MAC, make sure that NDAS device is formatted to the supported files system. Windows Me requires FAT32. Mac has its own file system, but also supports FAT32. It is up to you to choose the appropriate one.

### 2. My NDAS device shows up as a Black dot when used with USB.

When used with USB mode, the software is not needed, therefore you will see a black dot (disconnected) in the system tray as that is an indicator for NDAS (Ethernet) mode.



## 12 Regularoty Statements

### United States (FCC)

The computer equipment described in this manual generates and uses radio frequency (RF) energy. If the equipment is not installed and operated in strict accordance with the manufacturer's instructions, interference to radio and television reception might result.

This equipment complies with Part 15 of the FCC Rules. Operation is subject to the following conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Part 15, Class B, of the FCC Rules, is designed to provide reasonable protection against radio and television interference in a residential installation. Although the equipment has been tested and found to comply with the allowed RF emission limits, as specified in the above cited Rules, there is no guarantee that interference will not occur in a particular installation. Interference can be determined by turning the equipment off and on while monitoring radio or television reception. The user may be able to eliminate any interference by implementing one or more of the following measures:

- Reorient the affected device and/or its receiving antenna.
- Increase the distance between the affected device and the computer equipment.
- Plug the computer and its peripherals into a different branch circuit from that used by the affected device.
- If necessary, consult an experienced radio/television technician for additional suggestions.

### European Community (CE)

This product conforms to the following European Directive(s) and Standard(s):

Application of Council Directives:

EC directive 89/336/EEC.

Importer's Name: XIMETA, Inc.

Type of Equipment: Information Technology Equipment.

TRANSLATION: Storfestigkeit nach EN 50082-1 (89/336/EEC) wird erfüllt.

### XIMETA, Inc.

161 Whitney Place

Fremont, CA 94539

United States of America

## 13 Product Warranty

**XIMETA, Inc. provides a warranty for its product only if the buyer originally purchased the product from:**

XIMETA, Inc. or an authorized Reseller / Distributor.

Limited Hardware Warranty: XIMETA, Inc. warrants that the hardware portion of the XIMETA, Inc. products ("Hardware") described below will be free from material defects in workmanship and materials from the date of original retail purchase of the Hardware, for the period set forth ("Warranty Period").

**Limited Warranty for the Product(s) is defined as follows:**

Hardware (NDAS device unit, excluding power supplies)

XIMETA, Inc.'s sole obligation shall be to repair or replace the defective device at no charge to the original purchaser. Such repair or replacement will be rendered by XIMETA, Inc. at an Authorized XIMETA, Inc. Service Office. The replacement Hardware need not be new or of an identical make, model or part; XIMETA, Inc. may in its discretion replace the defective hardware (or any part thereof) with any reconditioned product that XIMETA, Inc. reasonably determines is substantially equivalent (or superior) in all material respects to the defective Hardware. If a material defect is incapable of correction, or if XIMETA, Inc. determines in its sole discretion that it is not practical to repair or replace the defective Hardware, the price paid by the original purchaser for the defective Hardware will be refunded by XIMETA, Inc. upon receipt of the defective Hardware. All Hardware (or any part thereof) that is replaced by XIMETA, Inc., or for which the purchase price is refunded, shall become the property of XIMETA, Inc. upon replacement or refund.

Limited Software Warranty: XIMETA, Inc. warrants that, during the Warranty Period, the magnetic media on which XIMETA, Inc. delivers the Software will be free of physical defects. XIMETA, Inc.'s sole obligation shall be to replace the non-conforming Software (or defective media) with Software that substantially conforms to XIMETA, Inc.'s functional specifications for the Software. Except as otherwise agreed by XIMETA, Inc. in writing, the replacement Software is delivered. If a material non-conformance is incapable of correction, or if XIMETA, Inc. determines in its sole discretion that it is not practical to replace the non-conforming Software, the price paid by the original license for the non-conforming Software will be refunded by XIMETA, Inc.; provided that the non-conforming Software (and all copies thereof) is first returned to XIMETA, Inc. The license granted respecting any Software for which a refund is given automatically terminates.

**What You Must Do For Warranty Service:**

Registration is conducted via a link on our Website (<http://www.XIMETA.com>). Each product purchased must be individually registered for warranty service within ninety (90) days after it is purchased and/or licensed.

FAILURE TO PROPERLY TO REGISTER MAY AFFECT THE WARRANTY FOR THE PRODUCT.

**Submitting a Claim:**

Any claim under this limited warranty must be submitted in writing before the end of the Warranty Period to an Authorized XIMETA, Inc. Service Office.

The customer must submit as part of the claim a written description of the Hardware defect or Software nonconformance in sufficient detail to allow XIMETA, Inc. to confirm the same.

The original product owner must obtain a Return Material Authorization (RMA) number from the Authorized XIMETA, Inc. Service Office and if requested, provide written proof of purchase of the product (such as a copy of the date purchase invoice for the product) before the warranty service is provided.

After an RMA number is issued, the defective product must be packaged securely in the original or other suitable shipping package to ensure that it will not be damaged in transit, and the RMA number must be prominently marked on the outside of the package.

The customer is responsible for all shipping charges to and from XIMETA, Inc. (No CODs allowed). Products sent COD will become the property of XIMETA, Inc. Products should be fully insured by the customer and shipped to:

**XIMETA, Inc.**

161 Whitney Place  
Fremont, CA 94539  
United States of America

XIMETA, Inc. may reject or return any product that is not packaged and shipped in strict compliance with the foregoing requirements, or for which an RMA number is not visible from the outside of the package. The product owner agrees to pay XIMETA, Inc. reasonable handling and return shipping charges for any product that is not packaged and shipped in accordance with the foregoing requirements, or that is determined by XIMETA, Inc. not to be defective or non-conforming.

**What is not covered:**

This limited warranty provided XIMETA, Inc. does not cover: Products that have been subject to abuse, accident, alteration, modification, tampering, negligence, misuse, faulty installation, lack of reasonable care, repair or service in any way that is not contemplated in the documentation for the product, or if the model or serial number has been altered, tempered with, defaced or removed; Initial installation, installation and removal of the product for repair, and shipping costs; Operational adjustments covered in the operating manual for the product, and normal maintenance; Damage that occurs in shipment,

failures due to power surge, and cosmetic damage; and Any hardware, software, firmware or other products or services provided by anyone other than XIMETA, Inc.

**Disclaimer of Other Warranties:**

EXCEPT FOR THE 1-YEAR LIMITED WARRANTY SPECIFIED HEREIN, THE PRODUCT IS PROVIDED "AS-IS" WITHOUT ANY WARRANTY OF ANY KIND INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT. IF ANY IMPLIED WARRANTY CANNOT BE DISCLAIMED IN ANY TERRITORY WHERE A PRODUCT IS SOLD, THE DURATION OF SUCH IMPLIED WARRANTY SHALL BE LIMITED TO NINETY (90) DAYS. EXCEPT AS EXPRESSLY COVERED UNDER THE LIMITED WARRANTY PROVIDED HEREIN, THE ENTIRE RISK AS TO THE QUALITY, SELECTION AND PERFORMANCE OF THE PRODUCT IS WITH THE PURCHASER OF THE PRODUCT.

**Limitation of Liability:**

TO THE MAXIMUM EXTENT PERMITTED BY LAW. XIMETA, Inc. IS NOT LIABLE UNDER ANY CONTRACT, NEGLIGENCE, STRICT LIABILITY OR OTHER LEGAL OR EQUITABLE THEORY FOR ANY LOSS OF USE OF THE PRODUCT, INCONVENIENCE OR DAMAGES OF ANY CHARACTER, WHETHER DIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL (INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, LOSS OF INFORMATION OR DATA CONTAINED IN, STORED ON, OR INTEGRATED WITH ANY PRODUCT RETURNED TO XIMETA, Inc. FOR WARRANTY SERVICE) RESULTING FROM THE USE OF THE PRODUCT, RELATING TO WARRANTY SERVICE, OR ARISING OUT OF ANY BREACH OF THIS LIMITED WARRANTY, EVEN IF XIMETA, Inc. HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE SOLE REMEDY FOR A BREACH OF THE FOREGOING LIMITED WARRANTY IS REPAIR, REPLACEMENT OR REFUND OF THE DEFECTIVE OR NON-CONFORMING PRODUCT.

**GOVERNING LAW:**

The applicable laws, that govern, interpret and enforce rights, duties, and obligations of each party arising from, or relating in any manner to, the subject matter of this Statement, without regard to conflict of laws principles, as well as Country-unique terms and competent court for this Statement are those of the country in which the warranty service is being provided. Consumers in the EUROPEAN UNION have legal rights under the applicable national legislation governing the sale of consumer goods. Such rights are not affected by the warranties provided in this Statement of Limited Warranty.

**WARRANTY PERIOD**

Unless otherwise provided by mandatory law the warranty period is one year.

**THE FOLLOWING TERMS APPLY TO THE COUNTRIES SPECIFIED:**

**AUSTRIA, BELGIUM, DENMARK, FINLAND, FRANCE, GREECE, ITALY, NETHERLANDS, NORWAY, PORTUGAL, SPAIN, SWEDEN AND SWITZERLAND**

Except as otherwise provided by mandatory law:

1. XIMETA, Inc. liability to any damages and losses that may arise as a consequence of the fulfillment of its obligations under or in connection with this Statement of Limited Warranty or due to any other cause related to this Statement of Limited Warranty is limited to the compensation of only those damages and losses proved and actually arising as an immediate and direct consequence of the non-fulfillment of such obligations (if XIMETA, Inc. is at fault) or of such cause, to a maximum amount equal to the charges the buyer paid for the product.

The above limitation shall not apply to damages for bodily injuries (including death) and damages to real property and tangible personal property for which XIMETA, Inc. is legally liable.

2. UNDER NO CIRCUMSTANCES IS XIMETA, INC., ITS SUPPLIERS OR RESELLERS LIABLE FOR ANY OF THE FOLLOWING, EVEN IF INFORMED OF THEIR POSSIBILITY: 1) LOSS OF, OR DAMAGE TO, DATA; 2) INCIDENTAL OR INDIRECT DAMAGES, OR FOR ANY ECONOMIC CONSEQUENTIAL DAMAGES; 3) LOST PROFITS, EVEN IF THEY ARISE AS AN IMMEDIATE CONSEQUENCE OF THE EVENT THAT GENERATED THE DAMAGES; OR 4) LOSS OF BUSINESS, REVENUE, GOODWILL, OR ANTICIPATED SAVINGS.

**GERMANY**

The warranty for a XIMETA, Inc. Product covers the functionality of the Product for its normal use and the Product's conformity to its Specifications.

In case XIMETA, Inc. or your reseller is unable to repair an XIMETA, Inc. Product, you can alternatively ask for a partial refund as far as justified by the reduced value of the unrepaired Product or ask for a cancellation of the respective agreement for such Product and get your money refunded.

During the warranty period, transportation for delivery of the failing Product to XIMETA, Inc. will be at XIMETA, Inc.'s expense.

The limitations and exclusions specified in the Statement of Limited Warranty will not apply to damages caused by XIMETA, Inc. with fraud or gross negligence and for express warranty.

**IRELAND**

Except as expressly provided in these terms and conditions, all statutory conditions, including all warranties implied, but without prejudice to the generality of the foregoing all warranties implied by the Sale of Goods Act 1893 or the Sale of Goods and Supply of Services Act 1980 are hereby excluded.

XIMETA, Inc. is liable to no more than

1. Death or personal injury or physical damage to the owners real property solely caused by XIMETA, Inc.'s negligence;
2. the amount of any other actual direct damages, up to 125 percent of the charges (if recurring, the 12 months' charges apply) for the Product that is the subject of the claim or which otherwise gives rise to the claim.

#### **ITALY**

Unless otherwise provided by mandatory law XIMETA, Inc.'s liability, will be limited to the total amount the owner paid for the Product that is the subject of the claim.

Unless otherwise provided by mandatory law, XIMETA, Inc. and your reseller are not liable for any indirect damages, even if XIMETA, Inc. or your reseller is informed of their possibility.

#### **UNITED KINGDOM**

XIMETA, Inc. is liable to no more than

1. Death or personal injury or physical damage to the owners real property solely caused by XIMETA, Inc.'s negligence;
2. The amount of any other actual direct damages, up to 125 percent of the charges (if recurring, the 12 months' charges apply) for the Product that is the subject of the claim or which otherwise gives rise to the claim;
3. Breach of XIMETA, Inc.'s obligations implied by Section 12 of the Sale of Goods Act 1979 or Section 2 of the Supply of Goods and Services Act 1982.

#### **NOTICE:**

These Statements has been executed in English and translated into different languages. In any case the English version shall prevail..

## 14 Additional Information and Assistance

### Additional Information and Assistance

For additional information, frequently asked questions or troubleshooting help, please refer to the User Manual.

Assistance is also available by contacting XIMETA, Inc. whenever you contact XIMETA, Inc. for technical support; please have the following information available:

- Product Name
- Model
- Serial Number
- Software Version

### How to Contact XIMETA, Inc.:

Tel: 1-510-683-9700

Fax: 1-510-683-9720

Email support for North America: [support@XIMETA.com](mailto:support@XIMETA.com)

### Technical Support on the Internet:

For the latest information on NDAS device, visit our website at <http://www.XIMETA.com>.