KONGSBERG

MP8200 Computer

Backup/Restore, and XP Installation Procedures

Kongsberg Maritime part numbers:	
MP8200 Matrox Extio model:	364600
MP8200 4–screen model:	364601
MP8200 8 channel serial line model:	364602
MP8200 Base model:	364613
MP8200 HS/DP Recorder 500 model:	364615
MP8200 with LAN/CAN + 2 COM ports model:	364618
MP8200 dual LAN/CAN model:	366196
MP8200 NAV model:	364620
MP8200 2-screen model:	364621
MP8200 K-Chief 600 model:	364622
MP8200 K-Chief 500 model:	364623
MP8200 FMS Server model:	364624

These procedures describe how to make backup and restore via external USB-disk, and how to install XP operating system on the MP8200 Maritime computer.

365841/A
March 2012 © Kongsberg Maritime AS

Document history

Document number: 365841 / Revision A		
Rev. A	March 2012	First version.

Note

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Warning

The equipment to which this manual applies must only be used for the purpose for which it was designed. Improper use or maintenance may cause damage to the equipment and/or injury to personnel. The user must be familiar with the contents of the appropriate manuals before attempting to operate or work on the equipment.
Kongsberg Maritime disclaims any responsibility for damage or injury caused by improper installation, use or maintenance of the equipment.

Comments

To assist us in making improvements to the product and to this manual, we welcome comments and constructive criticism.
e-mail: km.documentation@kongsberg.com

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Introduction

General

If the MP8200 computer hard disk needs to have its software restored or the disk needs to be replaced, you will in both cases need a backup of its software as it was after last time it was updated.

Note

For safety, it is advisable to perform regular backup of files from the computer hard disk.

The following procedures are described in this document:

- How to backup the computer hard disk to external USB hard disk
- How to restore the computer hard disk from external USB hard disk
- How to install XP operating system

MP8200 Computer System Setup DVD

The System Setup DVD contains the XP operating system.

Procedures

Backup and Restore Procedures via external USB hard disk

Note

This procedure is to be performed by Kongsberg Maritime personnel only.

Hardware required: External Hard Drive with USB connection (USB 2.0 or USB 3.0).

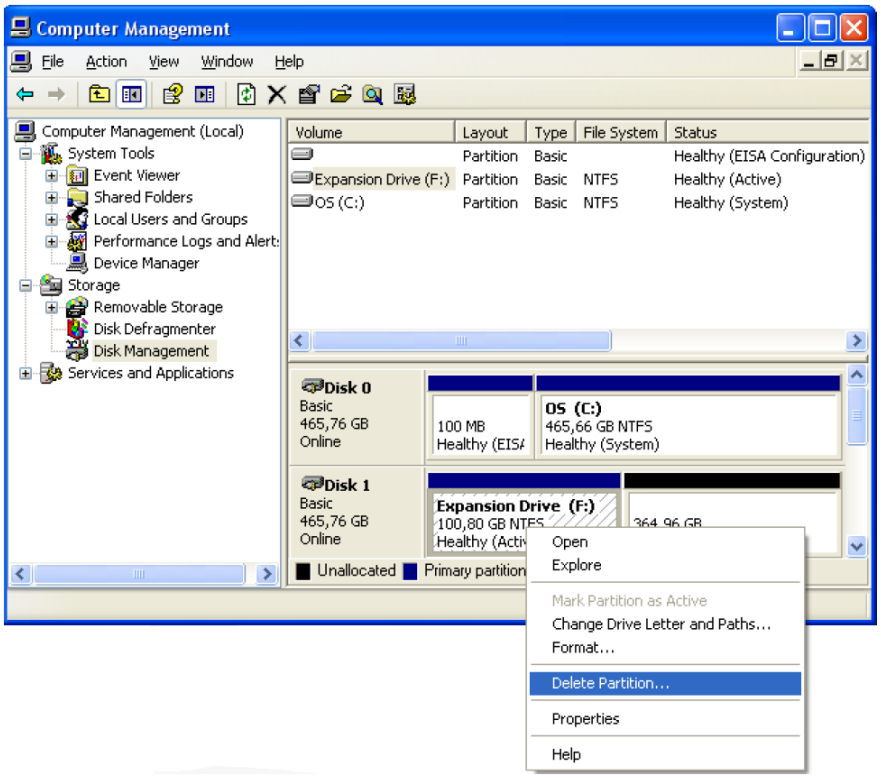
How to prepare a USB boot hard disk for OS Image Backup

Software required: 7-Zip File Manager, standard archive software on MP8200.

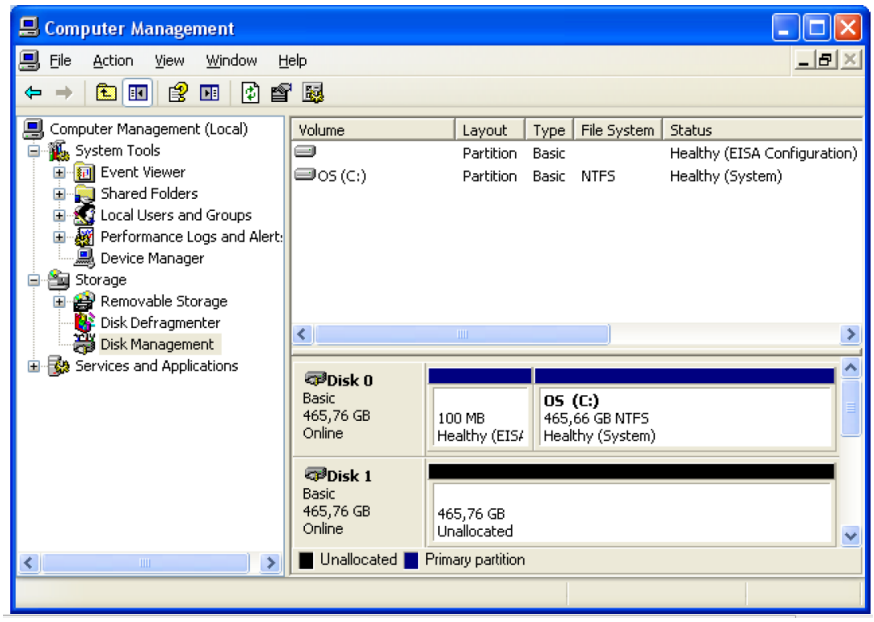
Download the image file from KSWeb:
http://ksweb/KMA/Local_files/Tools/Utilities/WinPERCD.iso

1 Connect the USB Hard disk to your computer.

Start **Disk Manager** from **Computer Management** (Control Panel). If the USB disk contains a partition, right-click it and select **Delete Partition…**.



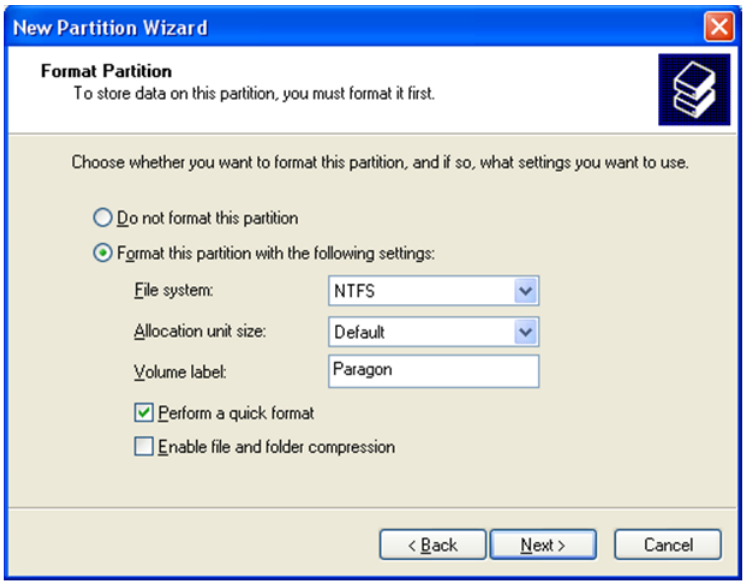
Delete all partitions. There should only be Unallocated space left on the disk:



2 Right-click inside the Unallocated space, select **New Partition…**.

The **New Partition** wizard starts.

3 Click **Next** four times.



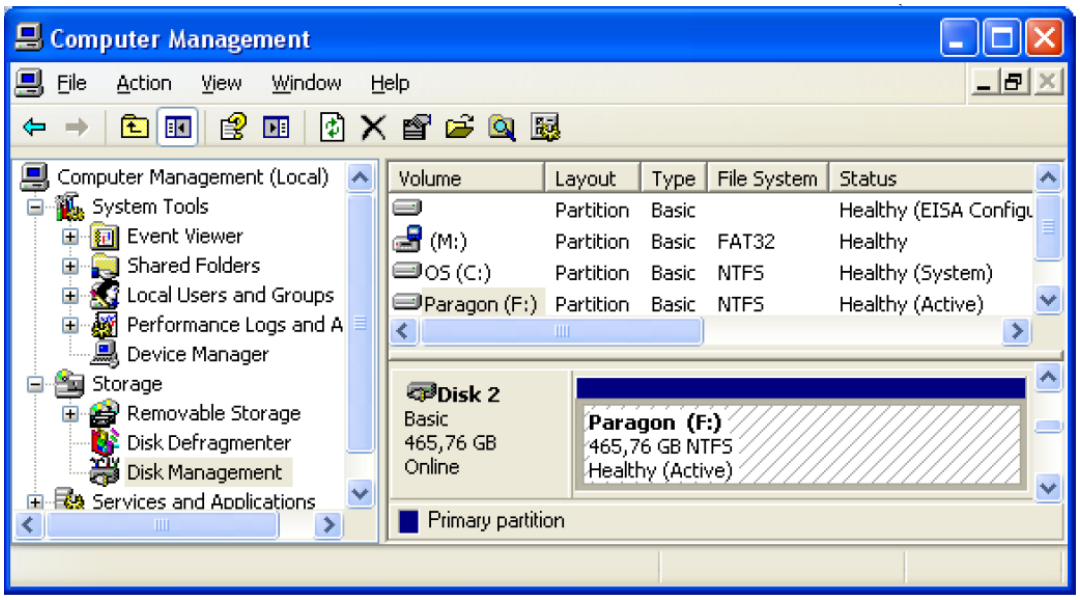
Select **NTFS** file system.

Set volume label **Paragon** and check the **Perform a quick format** check-box.

Click **Next**, and then **Finish**.

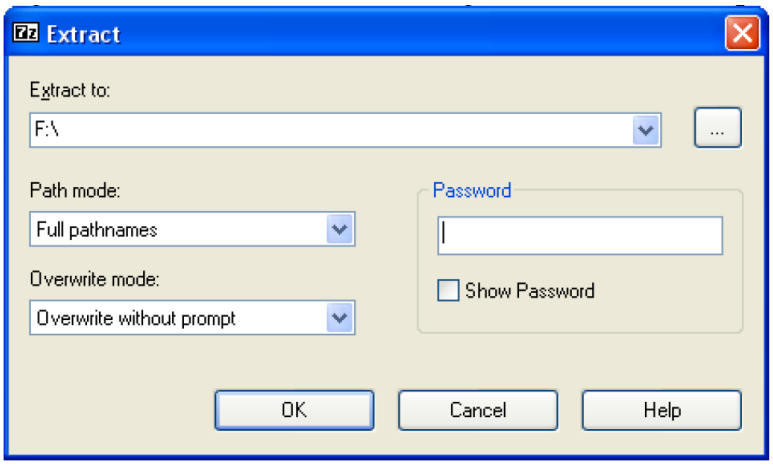
4 Wait until the partition appears as Healthy. Then right-click and select **Mark Partition as Active**.

The result should look like this. Record the drive letter (in this example F):



5 Close the **Disk Manager**.

Right-click the downloaded ISO-image file, and select **7-zip→Extract files…**

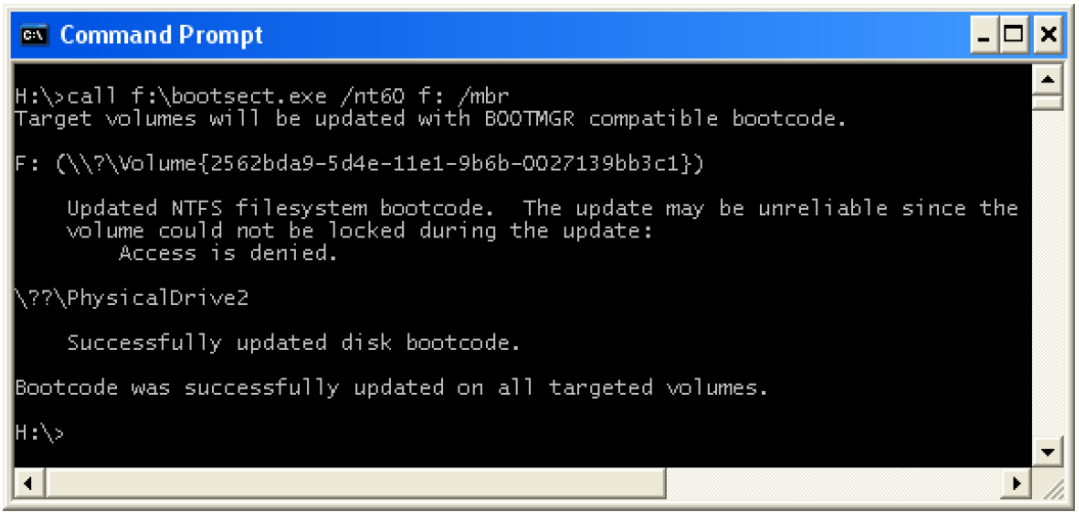


Select target (in this example F:\) to extract the image to the USB disk.

Click **OK**.

6 Open a command window. (**Start→Run→cmd**)

Run the command `call f:\bootsect.exe /nt60 f:  /mbr`



Note

Be sure to enter the correct target partition (in this example f:) for the bootsect command!

Use the letter assigned to your USB-disk, see step 4 above.

7 Detach the USB-disk. It is now ready to use.

8 To use/test the USB-drive:

a Plug it into an AIM-OS and reboot.

b Press **F9** key at the HP POST screen to open boot menu.

c From boot menu select the USB-disk as boot device.

d Follow the instructions on screen.

How to backup the computer hard disk to external USB hard disk

1 If LockOS is activated, disable it.

2 Connect the external USB hard disk to a free USB port on the OS.

3 Open **Task Manager** (Ctrl+Alt+Del).

4 Select **File→New Task (Run)…**

5 Start the Paragon Backup & Recovery 10 Suite application, which is pre-installed. Enter the command "`c:\Program Files\Paragon Software\Paragon Backup & Recovery 10 Suite\program2\Launcher.exe`", or browse to find the file.

If Paragon starts with the advanced GUI below, click on the **Express Mode** button on the toolbar to change to basic GUI.

Figure 1 Advanced GUI

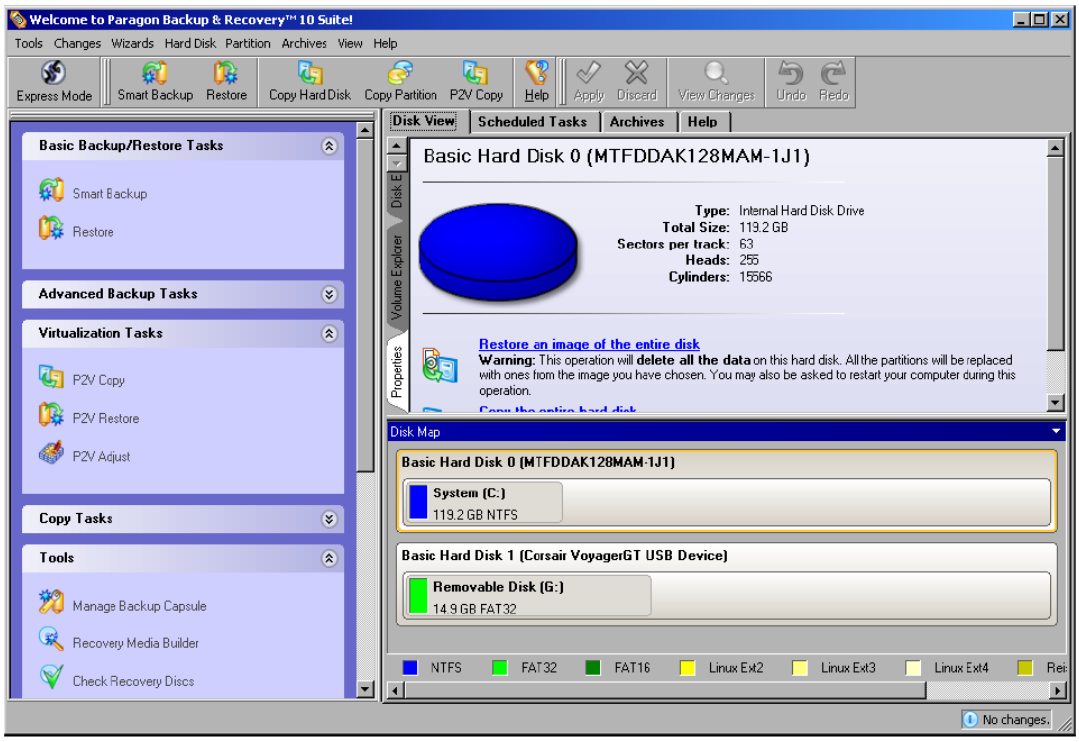
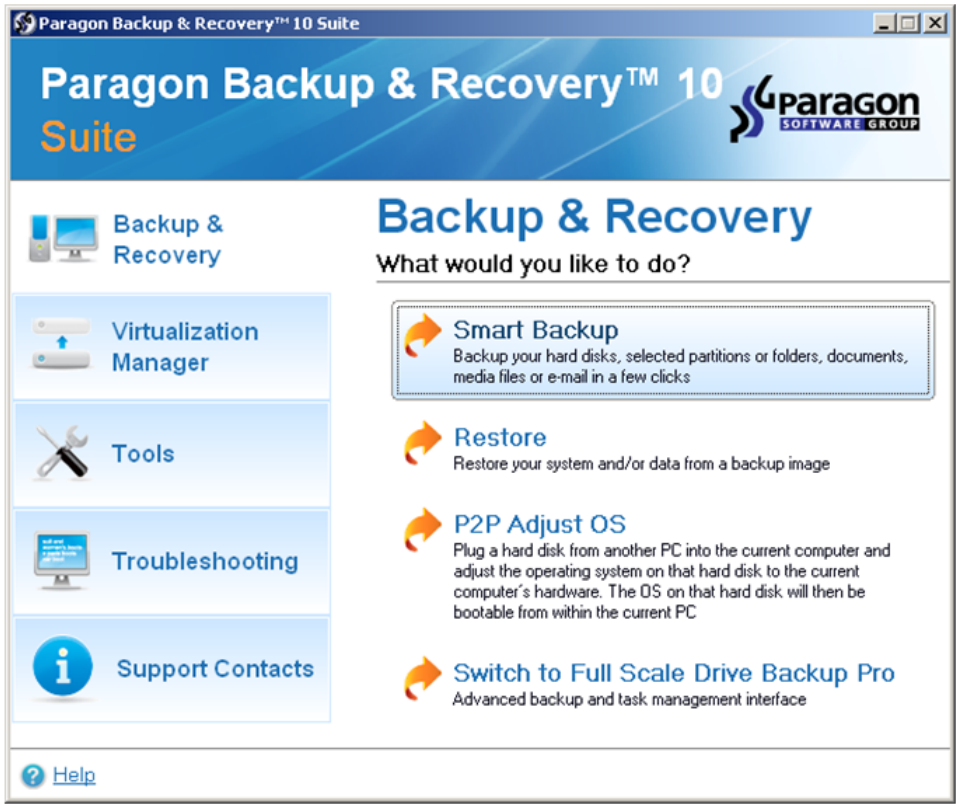
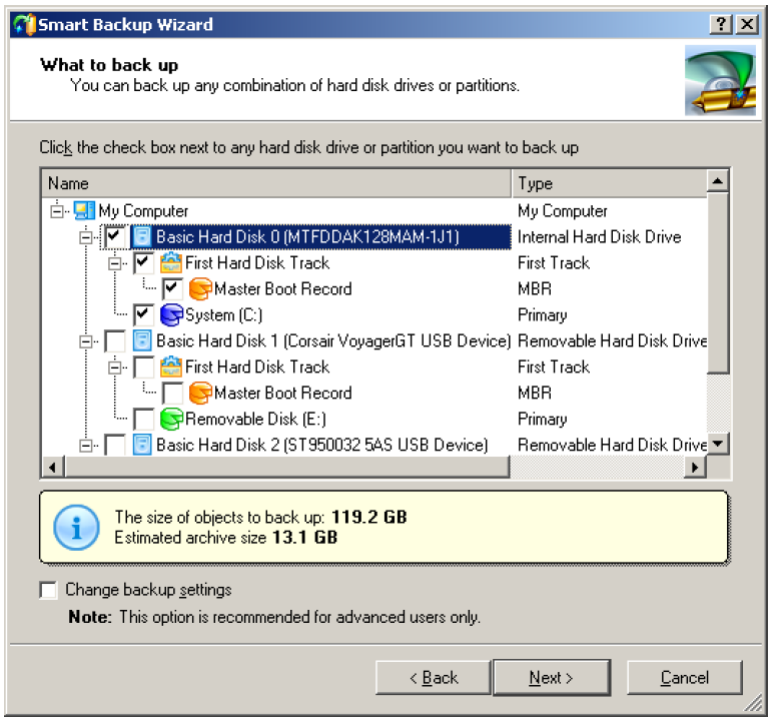


Figure 2 Basic GUI



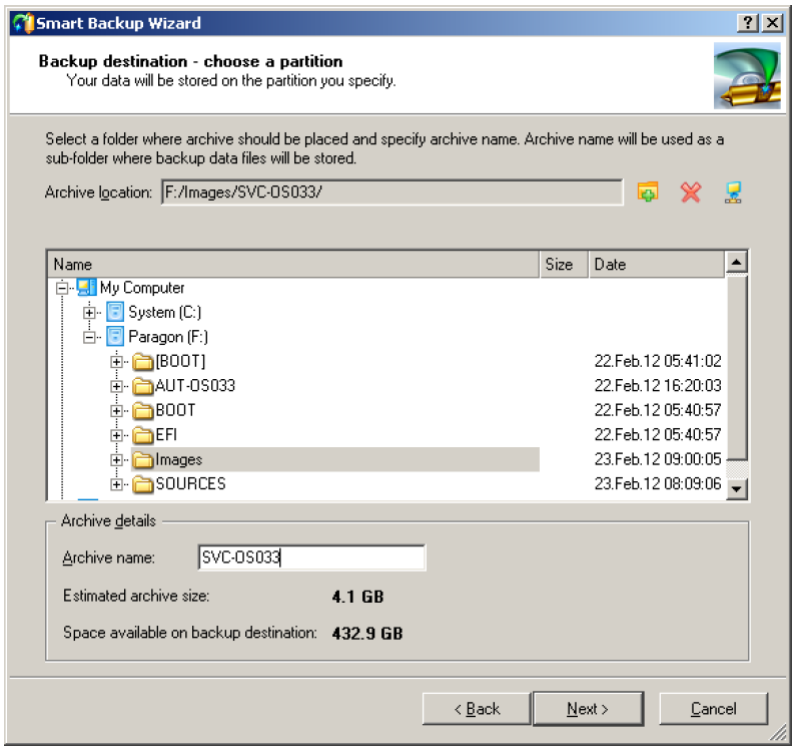
6 Run the Smart Backup Wizard. Click **Next** at the Welcome screen.

7 Select **Disks or Partitions** on the What to back up page. Click **Next**.

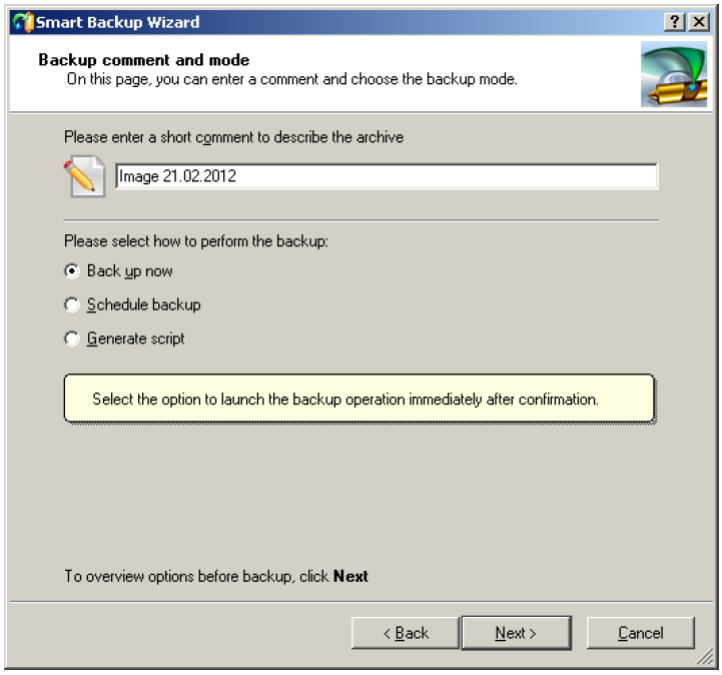


8 Select the hard disk that contains the System(C:) partition. See above. Click **Next**.

9 Select Save data to local/network drives. Click **Next**.



10 As Backup Destination, select the Paragon disk. If not done before, click the folder button to create a new folder, and name it Images. Use the OS name as archive name. Click **Next**.



11 Optionally write a comment, e.g. date of image, select **Back up now**, and click **Next** twice.

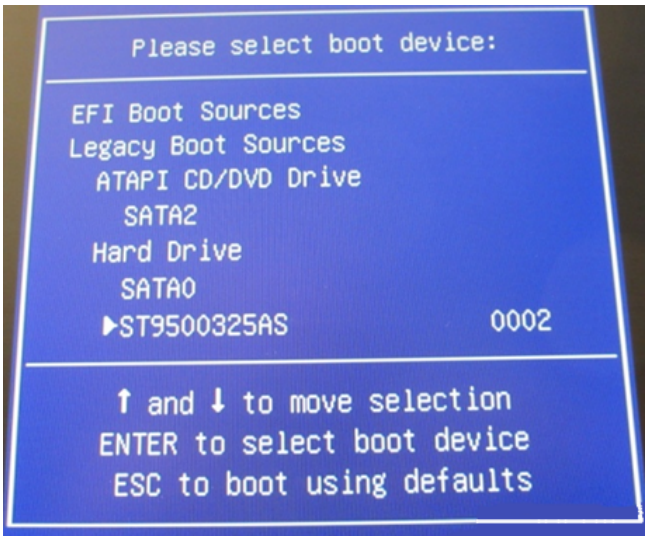
The backup starts immediately.

12 When the backup is finished, close the application, and close the Task Manager.

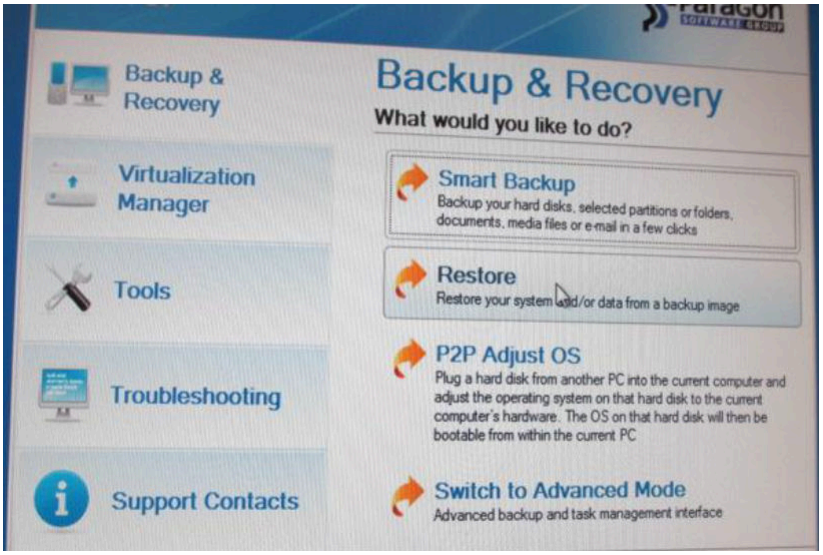
13 If LockOS was disabled in step 1, enable it.

How to restore the computer hard disk from external USB hard disk

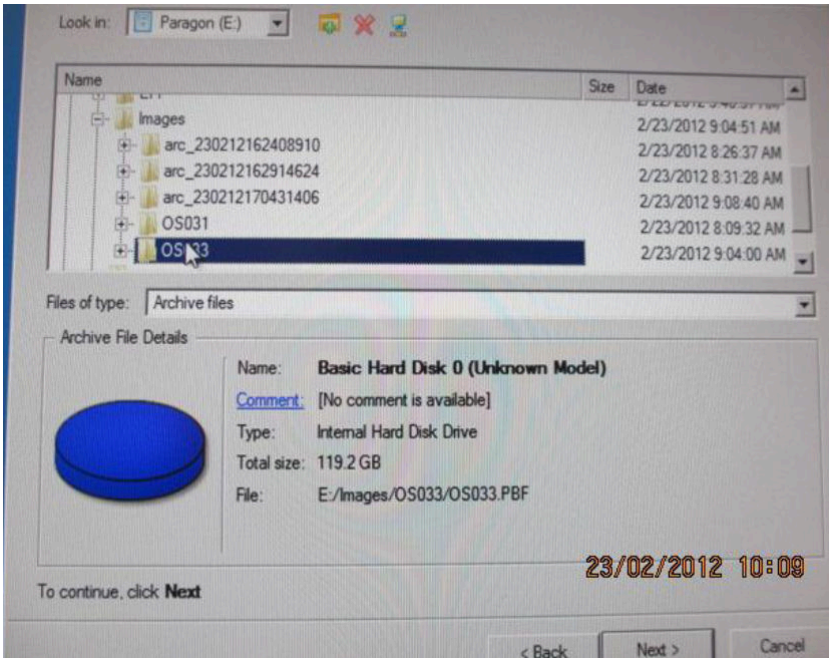
1 Connect the external USB backup disk to the computer, and start the computer. Press **F9** key at the HP POST screen to open the boot menu. Select the USB disk as boot device, press **Enter**.



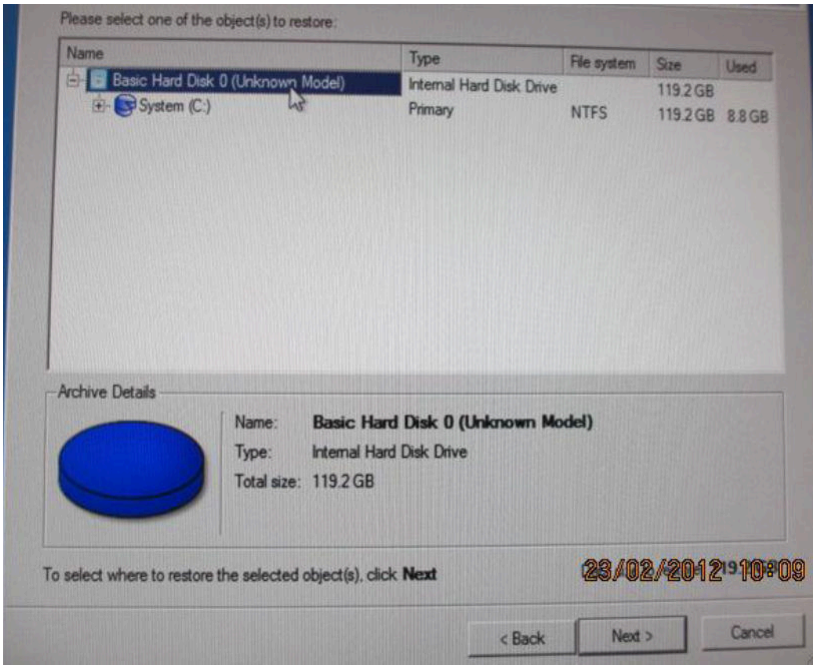
2 Accept the license agreements terms. From the Paragon startup-window, select **Restore**.



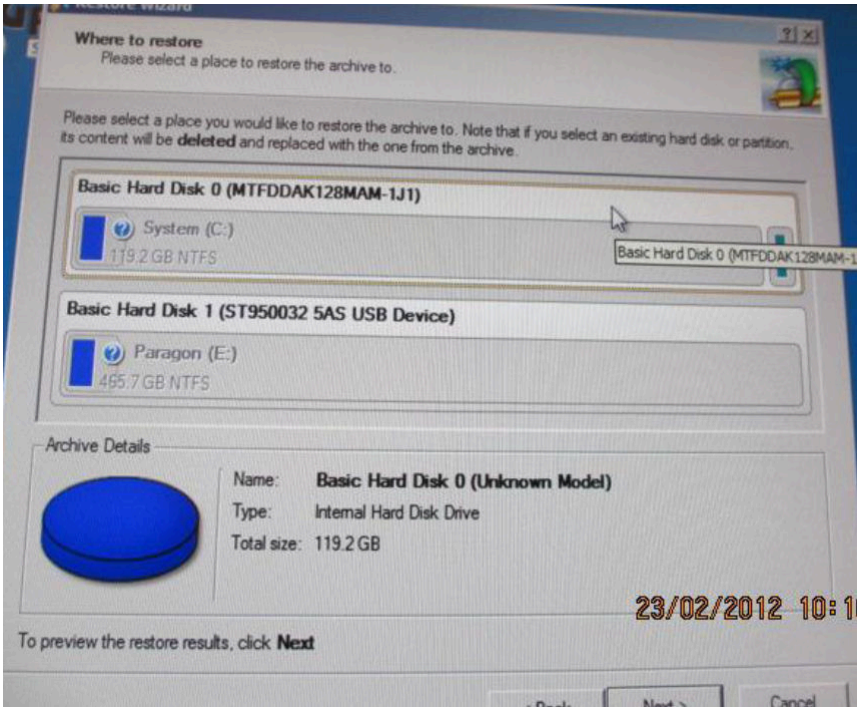
3 Click **Next** to start the Restore wizard. Browse the Paragon disk for the image to restore, select it and click **Next**.



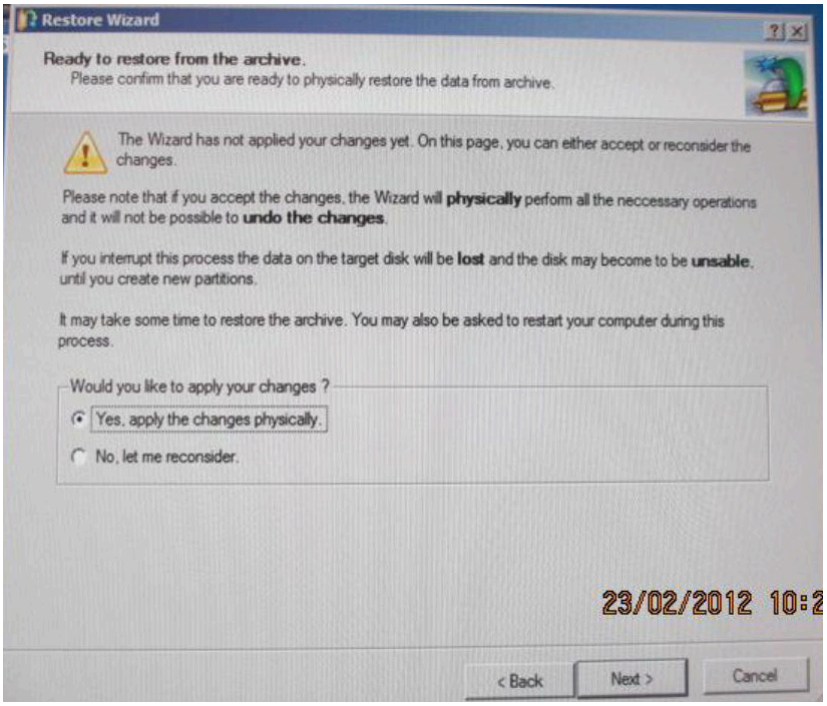
4 Select Basic Hard Disk 0 to restore, and click **Next**.



5 In the Where to restore screen, select the **Basic Hard Disk 0**, and click **Next** twice.



6 The Ready to restore window appears. Make sure you have done the correct selections, then select **Yes, apply the changes physically**.



Click **Next**. The restore starts immediately. Click **Finish** at the completion screen.

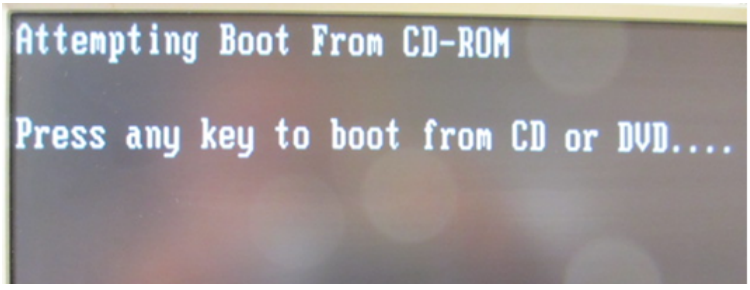
7 Click **Shutdown** in the lower right corner of the Paragon main screen. Disconnect the external USB disk, and boot the computer. The operator station boots normally.

If LockOS is installed, remember to activate it.

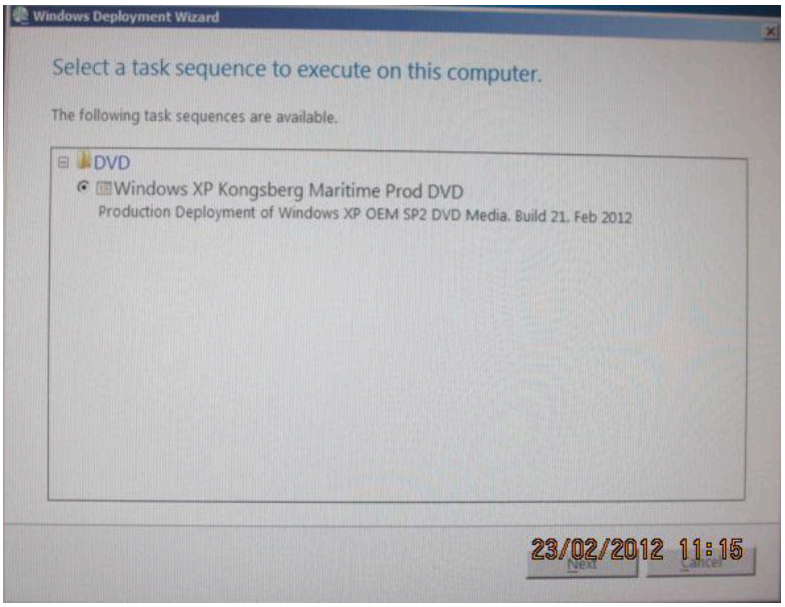
How to install the XP operating system

1 Insert the System Setup DVD into the DVD drive, and reboot the computer.

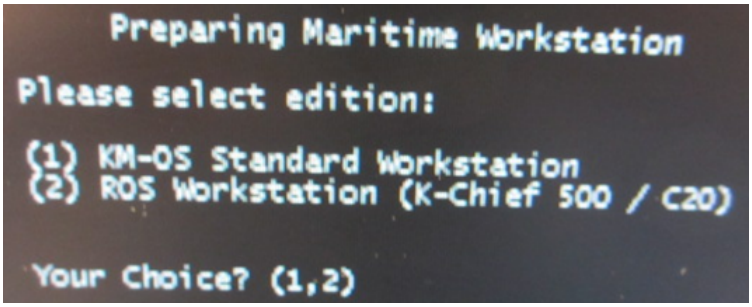
2 At this message, press any key to boot from the DVD:



3 When the Windows Deployment Wizard screen appears, select **Windows XP Kongsberg Maritime Prod DVD**, and click **Next**.

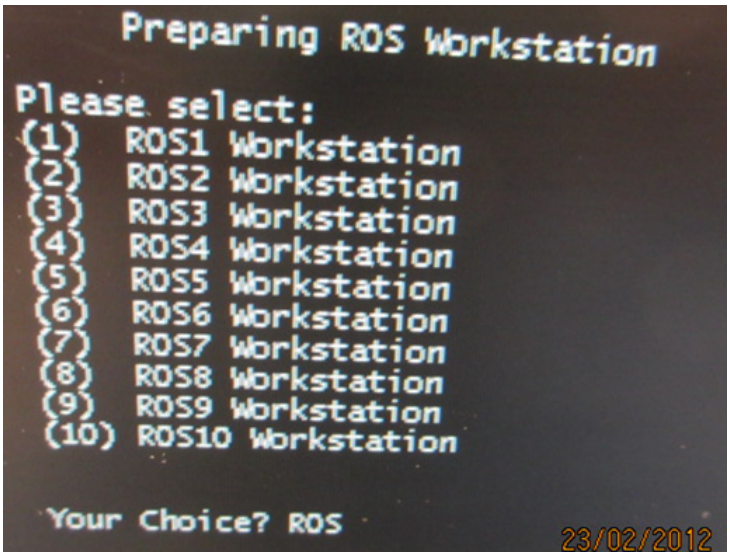


4 Do not touch the mouse or keyboard until this screen appears:



Select OS type and confirm. If 1 is selected, the XP setup for ICS, PA, DP and NAV system is configured. Do not touch the system until installation is finished.

If 2 is selected, the following dialog for further ROS Workstation preparation, is displayed:



The user is to enter station number, and then the IP address and station name is automatically set.

Do not touch the system until installation is finished. The installation is complete when the desktop loads without any progress dialogs, and the clock in sys-tray shows the time in 24-hour format.

5 Remove the DVD from the DVD drive.

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