

MP8200 Computer

Backup/Restore, and XP Installation Procedures

Kongsberg Maritime part n	umbers:
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.

Document history

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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.

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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....

📕 Computer Management						
📃 Eile <u>A</u> ction <u>V</u> iew <u>W</u> indow H	elp					
	é 🖻 🖻 🔍 😼					
Computer Management (Local) Computer Management (Local) Computer Tools Computer Viewer Computer Viewer Computer Shared Folders Computer Storage Computer Manager Comp	Volume Expansion Drive (F:) OS (C:)	Layout Partition Partition Partition	Type Basic Basic Basic	File System NTFS NTFS	Status Healthy (EISA Coi Healthy (Active) Healthy (System)	nfiguration)
Bisk Defragmenter Disk Management Services and Applications	 Contraction Continue Contin	0 MB ealthy (EIS4 spansion E 0,80 GB NT	OS 465, Heal Drive ((C:) 66 GB NTFS thy (System) (F:) 364	96.GB	
<	Unallocated Prim	ary partition	Exp Mar	en blore rk Partition as	Active	_
			For Del	mat ete Partition		
			Pro	perties		1
			Hel	P		

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

县 Computer Management						
📃 Eile Action View Window H	ielp					_ 8 ×
← → 🗈 🖬 😫 🖬 😫 🖆	1 😼					
Computer Management (Local) Computer Management (Local) Computer Management (Local) Computer Manager Computer Manager Computer Manager Computer Manager Computer Management Computer Manageme	Volume OS (C:)	Layout Partition Partition	Type Basic Basic	File System	Status Healthy (EISA C Healthy (System	onfiguration) i)
E Services and Applications	CDisk 0 Basic 465,76 GB Online CDisk 1 Basic 465,76 GB Online	100 MB Healthy (EIS4 465,76 GB Unallocated	05 (1 465,6 Health	C:) 66 GB NTFS hy (System)		
		Primary partition				

- 2 Right-click inside the Unallocated space, select New Partition.... The New Partition wizard starts.
- **3** Click Next four times.

nis partition, and if so, what settings you	
	u want to use.
lowing settings:	
NTFS 💌	
Default 🔽	
Paragon	
mpression	
	llowing settings: NTFS Default Paragon mpression (Back Next)

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):

县 Computer Management		
📕 Eile <u>A</u> ction <u>V</u> iew <u>W</u> indow (Help	۶×
	K 🖆 🖻 🔍 😼	
📕 Computer Management (Local) 🛛 🔼	Volume Layout Type File System Status	^
😑 🌇 System Tools	Partition Basic Healthy (EISA Conf	figu
🖅 📆 Event Viewer	🛃 (M:) Partition Basic FAT32 Healthy	=
🗈 幔 Shared Folders	GOS (C:) Partition Basic NTFS Healthy (System)	_
🕀 🔬 Local Users and Groups	Paragon (F:) Partition Basic NTFS Healthy (Active)	~
🖅 🌌 Performance Logs and A 📒		>
🔄 🔜 Device Manager		_
🖃 🎦 Storage	🗇 Disk 2	
🗈 🙀 Removable Storage	Basic (Paragon (F:)	7 👝
Disk Defragmenter	465,76 GB 465,76 GB NTFS	2 -
Disk Management	Online Healthy (Active)	2 🥫
🕀 🍓 Services and Applications 🞽	Primaru partition	

5 Close the Disk Manager.

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

🖸 Extract	
Extract to: F:V	····
Path mode: Full pathnames Overwrite mode: Overwrite without prompt	Password
ОК	Cancel Help

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

6 Open a command window. (Start \rightarrow Run \rightarrow 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

🥘 Welcome to Paragon Backup & Recovery™ 10 Suite!	×
Tools Changes Wizards Hard Disk Partition Archives View I	Help
Express Mode Smart Backup Restore Copy Hard Disk Co	Image: Second
	Disk View Scheduled Tasks Archives Help
Basic Backup/Restore Tasks	Basic Hard Disk 0 (MTFDDAK128MAM-1J1)
Restore	Type: Internal Hard Disk Drive Total Size: 113,2 GB Sectors per track: 63 Heads: 225 Culticate: 1566
Advanced Backup Tasks 🛞	Cymindets. 13000
Virtualization Tasks 🛞	Restore an image of the entire disk
P2V Copy	Warning: This operation will delete all the data on this hard disk. All the pathtions will be replaced with ones from the image you have chosen. You may also be asked to restart your computer during this operation
🙀 P2V Restore	Consultan antice hard disk
🦪 P2V Adjust	Basic Hard Disk 0 (MTFDDAK128MAM-1J1)
Copy Tasks 🛞	113.2 GB NTFS
Tools	Basic Hard Disk 1 (Corsair VoyagerGT USB Device)
羧 Manage Backup Capsule	Removable Disk (G:) 14 9 GB FAT32
Recovery Media Builder	
V Check Recovery Discs	NTFS FAT32 FAT16 Linux Ext2 Linux Ext3 Linux Ext4 Rei
	O No changes.





- 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.

lic <u>k</u> the check box next to any hard disk drive o Name	r partition you want to	back up	•
🗄 🖳 My Computer		My Computer	
😑 🗹 📴 Basic Hard Disk 0 (MTFDDAK1	28MAM-1J1)	Internal Hard Disk Dri	ive
🚊 🔽 🚰 First Hard Disk Track		First Track	
🦾 🔽 📴 Master Boot Record		MBR	
📖 🗹 💽 System (C:)		Primary	
🗄 🦳 🔄 Basic Hard Disk 1 (Corsair Voya	gerGT USB Device)	Removable Hard Disk	k Drive
🚊 🦳 🚰 First Hard Disk Track		First Track	
🦾 🥅 🦻 🕞 Master Boot Record		MBR	
🔽 🕞 Removable Disk (E:) Primary			
🖃 🦳 🔽 Basic Hard Disk 2 (ST950032 5AS USB Device) 🛛 Removable Hard Disk Drive			
•			•
The size of objects to back up: 119.2 Estimated archive size 13.1 GB	2 GB		
Change backup settings			

- 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.

📬 Smart Backup Wizard			? ×
Backup destination - choose a partition Your data will be stored on the partition you specify.			2
Select a folder where archive should be placed and specify archive name. A sub-folder where backup data files will be stored. Archive Igcation: F:/Images/SVC-0S033/	Archive n	ame will be used as	a
Name	Size	Date	_
□		22.Feb.12 05:41:0 22.Feb.12 16:20:0 22.Feb.12 05:40:5 22.Feb.12 05:40:5 23.Feb.12 09:00:0 23.Feb.12 08:09:0	2 3 7 7 5 5 5
Archive details Archive name: SVC-0S033 Estimated archive size: 4.1 GB Space available on backup destination: 432.9 GB			
< <u>B</u> ack	<u>N</u> e	xt> <u>C</u> ar	

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.

📬 Smart Backup Wizard	? ×
Backup comment and mode On this page, you can enter a comment and choose the backup mode.	
Please enter a short comment to describe the archive	
Image 21.02.2012	
Please select how to perform the backup:	_
G Back up now	
Schedule backup	
C Generate script	
Select the option to launch the backup operation immediately after confirmation.	
To overview options before backup, click Next	
< <u>B</u> ack <u>N</u> ext > <u>C</u>	ancel

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.



Basic Hard Disk 0 (Unknown Model) Primary NTFS 119.2 G Primary NTFS 119.2 G	iB iB 8.8 GE
Archive Details Name: Basic Hard Disk 0 (Unknown Model) Type: Internal Hard Disk Drive Total size: 119.2 GB	

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.

	place to restor	e the archive to	ing
			2
Please select a place	you would like	e to restore the archive to. Note t	that if you select an existing hand did
o content will be del	ered and repla	aced with the one from the archiv	ve.
Basic Hard Disk	CO (MTFDD/	AK128MAM-1J1)	
System	(C:)		
119.2 GB NTFS		Basic Hard Disk 0 (MTFDDA	
0			N.
Basic Hard Disk	1 (\$195003	32 5AS USB Device)	
Paragon	(E:)		
AGE 7 CD ATE	S		
ADD.7 GD WIF			
- 493.7 GB NTP			
hive Details	[News	Printle Local Address	
hive Details	Name:	Basic Hard Disk 0 (Un	known Model)
hive Details	Name: Type:	Basic Hard Disk 0 (Uni Internal Hard Disk Drive	known Model)
hive Details	Name: Type: Total size	Basic Hard Disk 0 (Uni Internal Hard Disk Drive 119.2 GB	known Model)
hive Details	Name: Type: Total size	Basic Hard Disk 0 (Uni Internal Hard Disk Drive 119.2 GB	known Model) 22 /02 /20 12
thive Details	Name: Type: Total size	Basic Hard Disk 0 (Uni Internal Hard Disk Drive 119.2 GB	known Model) 23/02/2012

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

Restore Wizard			? ×
Ready to restore from the archive. Please confirm that you are ready to physically restore	the data from archive.		3
The Wizard has not applied your changes yet, changes.	On this page, you can e	ther accept or reconsi	derthe
Please note that if you accept the changes, the Wizar and it will not be possible to undo the changes .	d will physically perform	all the neccessary op	erations
If you interrupt this process the data on the target disk until you create new partitions.	will be lost and the disk	may become to be un	sable.
It may take some time to restore the archive. You may process.	also be asked to restart y	rour computer during th	nis
Would you like to apply your changes ?			
Yes, apply the changes physically.			
C No, let me reconsider.			
		23/02/2	012 10:
	< Back	Next >	Cancel

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:

	Preparing ROS Works	tation
Ecessered and the second secon	se select: ROS1 Workstation ROS2 Workstation ROS3 Workstation ROS4 Workstation ROS5 Workstation ROS6 Workstation ROS7 Workstation ROS8 Workstation ROS9 Workstation ROS9 Workstation	
You	r Choice? ROS	23/02/2012

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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