

TBMR v6.2.x for Linux Quick Start Guide



www.cristie.com

Contents

Section No.	Section Title	Page
1.0	Description	3
2.0	System Requirements	3
3.0	Installation	3
4.0	Setting up a Backup Location	4
4.1	Setup TSM API Client	4
4.2	Setup TSM BA Client	4
4.3	Saving Configuration	4
4.4	tbmrcfg	5
5.0	Backing Up TSM	6
5.1	TSM BA Client Backup	6
6.0	Performing a Recovery - Graphical Mode (Recommended)	7
7.0	Performing a Recovery - Text Mode	15
7.1	Load Hardware Drivers	16
7.2	Access Configuration	17
7.3	Access Configuration from Remote Share	18
7.4	Setup Network	18
7.5	Setup Remote Share	19
7.6	Select Configuration from Remote Share	20
7.7	Access Configuration from Local Device	21
7.8	Setup Local Device	21
7.9	Read Configuration from Local Device	22
7.10	Access Configuration from TSM BA Client Backup	22
7.11	Setup Network	23
7.12	Setup TSM Server	23
7.13	Read Configuration from TSM	23
7.14	Test Backup Location	23

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1.0 Description

Cristie Bare Machine Recovery for IBM Tivoli (TBMR) for Linux can recover a Linux machine in the event of a disaster. It is possible to recover to the same or dissimilar hardware. It can backup to tape drives, file locations, Tivoli Storage Manager (TSM) and cascaded locations. Extra modules are available to support tape libraries and autochangers, and Cristie Storage Manager (CSM) location. Command line and GUI interfaces are available. Backups can be taken periodically along with configuration information which includes details of hard disks, network interfaces, etc. This quick start guide shows the user how to configure backup locations, save configuration, backup and recover a Linux machine using TBMR. More detailed information is available from man pages for the TBMR components.

2.0 System Requirements

TBMR for Linux can be installed on a x86, x86_64 or PPC Linux machine with glibc >= 2.2. If using TSM, the system should have TSM API client version >= 5.1 already installed. For TBMR backups, TSM BA client should be installed. Recovery requires at least 128MB RAM.

3.0 Installation

Installation files may be downloaded from Cristie website at http://www.cristie.com or can be found in the linux/install directory on the TBMR CDROM. There are 2 available versions to support newer and older Linux distributions. The main installation files are contained in the linux/install/main directory and the installation files for older distributions are contained in linux/install/compat.

If the system supports Redhat Package Manager (RPM), this is the simplest way to install TBMR. To install from an RPM package:

rpm -i cbmr-xxx.xxx.rpm
rpm -i tbmr-xxx.xxx.rpm

To uninstall the RPM package, use

rpm -e cbmr rpm -e tbmr

If RPM is not available, the gzipped tar file may be installed as follows:

Copy the installation file to a temporary directory. tar xvzf cbmr-xxx.linux.xxx.tar.gz cd cbmr ./install tar xvzf tbmr-xxx.linux.xxx.tar.gz cd tbmr ./install

This will install all the relevant files and licences. To uninstall the package, use the install script with -u option.

TBMR is installed with a 30 day trial licence. To extend this licence, contact Cristie at cbmr@cristie.com.

4.0 Setting Up A Backup Location

4.1 Setup TSM API Client

If the UBax backup is to be written to a TSM server, the TSM API client should be configured. To set up the TSM API client, the TSM dsm.sys file should be edited. Note that the TSM BA client usually uses a separate dsm.sys file. The default location for TSM API client setup file for 32 bit applications is:

```
/opt/tivoli/tsm/client/api/bin/dsm.sys
```

and for 64 bit applications is:

/opt/tivoli/tsm/client/api/bin64/dsm.sys

This file should be edited to point to the TSM server to be used:

SErvername server_a COMMmethod TCPip TCPPort 1500 TCPServeraddress 10.2.1.20

A dsm.opt file may need to be created in the same directory, this can be an empty file if no special options are required.

4.2 Setup TSM BA Client

If the backup is to be written using TSM BA client, the BA client dsm.sys file should be configured. The default location for TSM API client setup file is:

/opt/tivoli/tsm/client/ba/bin/dsm.sys

This file should be edited to point to the TSM server to be used:

SErvername	server_a	
COMMmeth	od	TCPip
TCPPort		1500
TCPServe	raddress	10.2.1.20

The TSM BA client should be configured to backup all files which are required for OS recovery. By default, the /dev directory is not backed up. To make sure this is backed up, the following line should be added to the dsm.sys file:

virtualmountpoint /dev

This will create a separate filespace for /dev which will be restored by the recovery environment.

4.3 Saving Configuration

Configuration information including details of disks, networks, etc. must be saved for each machine to be recovered. This may be saved to the backup location, to a unique floppy disk or memory key for each machine, or to a central configuration store located on a network share. When saving configuration information to the backup location, this must be done before the backup is run. To save the configuration information for each machine, a command line program tbmrcfg may be used.

4.4 tbmrcfg

To use the command line configuration saving program, type tbmrcfg followed by the required options. The available options to tbmrcfg can be shown using:

```
tbmrcfg -?
tbmrcfg vx.xx (c) Cristie Software Ltd. 2004-2008
Usage: tbmrcfg [options]
Options:
-a[dir]
                                                                                                            Add files to backup (default dir /TBMRCFG)
-b<name>, --bootloader=<name>
                                                                                                         Set boot loader to <name> (default is lilo)
-c<dir>, --copyto=<dir>
                                                                                                           Copy files to <dir>/<hostname>
-d<name>, --bootdevice=<name>
                                                                                                            Set boot device name to <name>
                                                                                                      Copy required files to floppy disk
-f, --floppy
-l<file>, --logfile=<file> Set log file (default is tbmrcfg.log)
-o<file>, --output=<file>
                                                                                                Set output file (default is disrec.ini)
-v, --verbose
                                                                                                           Verbose mode
                                                                                                           Use dissimilar hardware support if n != 0
 --disshw=<n>
--filedev mount options=<string> Set file device mount options
--filedev mount target=<string> Set file device mount target
--floppy_device=<string>

--floppy_mount=<string>

--format_pattern=<pattern>

--partition_pattern=<pattern>

--partition_pattern=--partition_pattern=--partition_pattern=--partition_pattern=--partition_pattern=--partition_pattern=--partition_pattern=--partition_pattern=--partition_pattern=--partition_pattern=--partition_pattern=--partition_pattern=--partition_pattern=--partition_pattern=--partition_pattern=--partition_pattern=--partition_pattern=--partition_pattern=--partition_pattern=--partition_pattern=--partition_pattern=--partition_pattern=--partition_pattern=--partition_pattern=--partition_pattern=--partition_pattern=--partition_pattern=--pattern=--pattern=--pattern=--pattern=--pattern=--pattern=
-?, --help, --usage
                                                                                                          Print this message and exit
```

Some examples are shown here:

To save configuration information from a machine that boots using grub installed on /dev/sda to the backup location, use:

tbmrcfg -a -b grub -d /dev/sda

To save configuration information from a machine that boots using grub installed on /dev/hda to an NFS mounted share /nfs/configs, use:

tbmrcfg -b grub -d /dev/hda -c /nfs/configs

To save configuration information from a machine that boots using grub installed on /dev/sda to a removable disk device /dev/sdc which can be temporarily mounted at /mnt/tmp, and backs up to a file location mounted using SMB in //server/share/ directory, use:

```
tbmrcfg -f --floppy_device=/dev/sdc --floppy_mount=/mnt/tmp -b grub -d /dev/sda
--filedev_mount_target=//server/share --filedev_mount_options="username=me,passwo
rd=secret,workgroup=mygroup"
```

There is a full manual page for tbmrcfg available by typing man tbmrcfg.

5.0 Backing Up

5.1 TSM BA Client Backup

The backup may be performed using the command line TSM BA Client dsmc or the GUI interface. Please consult the TSM user manual for instructions on how to do this.

6.0 Performing a Recovery - Graphical Mode (Recommended)

When a machine has crashed it can be recovered using the CBMR bootable CD-ROM. This is the same CD from which you installed the software. You should ensure your machine's BIOS is set up to boot from CD-ROM.

The process is in four or five stages:

- Boot into Recovery OS
- Read Configuration Data
- Restore Files
- Load additional drivers (if necessary)
- Reboot into recovered OS

Boot the machine using the CBMR bootable CD-ROM. You will be presented with the screen shown in figure 1.

Cristie Recovery Console V 6.2.1 Copyright (c) 2009 Cristie Software Limited (UR).	
This product uses various open source programs, hereafter referred as "Programs", including but not limited to GNU General Public License (GPL), GNU Lesser General Public License (LGPL), MIT and BSD. The source code for all the Programs can be obtained free of charge from Cristie Software Limited, New Mill, Chestnut Lame, Stroud, GLS 3EH, United Kingdom or by sending an email to support@cristie.com. Shipping charges may apply. The list of Programs along with their licenses can be found in /etc/copyright. These Programs and be found copied, modified and distributed freely in accordance with and subject to their respective licenses.	
Enter X to boot in graphical mode Enter T to boot in text mode	
boot: _	

Figure 1.

Cristie recommends that you choose the graphical mode which loads the Cristie Recovery Console (CRC), so enter x and press Enter.

raidE' septy1 1963 MB/s
raide seixi 1005 m/s
TRINC, SACIAL CIUTA
raladi ssezzi 3000 mb/s
raidb: sse2x2 4613 MB/s
raid6: using algorithm sse2x2 (4613 MB/s)
Md: raid6 personality registered for level 6
Hd: raid5 personality registered for level 5
Hd: raid4 personality registered for level 4
raid5; automatically using best checksumming function; nIII sse
pIII_sse : 4796.000 MB/sec
raid5: using function: pIII_sse (4796.000 MB/sec)
нd: нd driver 0.90.3 MAX_MD_DEVS=256, MD_SB_DISXS=27
нd: bitмap version 4.39
device-наррег: ioctl: 4.11.0-ioctl (2006-09-14) initialised: dm-devel@redhat.coм
TCP bic registered
NET: Registered protocol family 1
NET: Registered protocol family 17
892.10 VLAN Support V1.8 Ben Greear (greearb@candelatech.com)
All bugs added by David S. Miller (daven@redhat.com)
Using IPI Shortcut mode
Freeing unused kernel memory: 228k freed
input: AT Translated Set 2 keyboard as /class/input/input0
Time: tsc clocksource has been installed.
input: IMPS/2 Generic Wheel Mouse as /class/input/input1
Do you wish to load the vexnet driver (Y/N) ?

Figure 2.

Load any drivers specific to your system when asked by pressing y.

In most cases you should load every driver that is requested. The exceptions are when there are SAN drivers which you may not want to load if you do not wish the recovery process to have access to your SAN disks.

You will be presented with the license screen. Click 'I Accept' if you agree with the CBMR licensing terms.

				-
	Cristie Recov	ery Console	:	
Auto Recovery Wizard	- 🕹	Starts the automatic recovery wizard which will take you through the steps necessary to recover your system.	A .	
Manual Recovery Wizard	- 🧐	Starts the manual recovery wizard which will let you do individual recovery steps.		
Tools	- P	Lets you run various tools relevant to the recovery.		
View Log Files	Ò,	Shows a list of log and error report files from which individual ones can be selected for viewing in notepad.		Figure 3.
Copy Log Files		Lets you copy all the log and error report files to a removable media or network location for support purposes	ş.	
Close & Reboot	- 🗞	Will close this console and reboot the system.		
	Cristie Recovery Co Copyright (C) 2009 United Kingdom http://www.cristie.c	onsole Cristie Software Limited om	cristie	

The quickest way to begin the recovery is by clicking on the Auto Recovery Wizard button (see figure 3 for an explanation of the buttons on the CRC menu) which will result in the following screen:

Welcome to the Recovery Wizard This wizard will take you through the steps t your system from the saved configuration in recovery backup. Select [Next] to proceed.	o fully recover formation and a	<u>Figure 4</u>
< Back	Next> Cancel	

The configuration files containing details of the machine should be loaded before the recovery can begin. These files may be stored in the backup location, on a remote network share, or on a removable device.

Click **Next** on the first dialogue box (figure 4); you will then be presented with a box that will allow you to enter where your backup configuration information is stored (figure 5).

 Stored with the backup date Stored in the following local 	ta ation		
Path:	Browse	Network Setup	
			Figure 5

Cristie normally recommend that configuration information is held with the backup data; if, however, you have chosen to store it in another location, you can browse for configuration files stored on a network share or a local device by selecting the **Stored in the Following** and then clicking the **Browse** button to enter where the configuration data is stored.

From the resulting dialogue box (figure 6), you can browse any configuration files stored on a local device or on a network share. If necessary, any required network shares may be mounted by clicking **Mount Network Shares** filling in the form (figure 7) and clicking **OK**. Make sure you enter the full network path in **Share**.

⊘/mnt/config	Mount Network Shares
Mount Network Shares	Mountpoint: /mnt/config
	Share:
(in 1) 01 Oct 2009 08:56:14	Username:
Create New Directory	Password:
	IP Address:
Close	OK Cancel

Figure 6.

Figure 7.

Click **Next** when you have completed this task.

You will then be asked which type of backup that you wish to restore; select the **CBMR radio button** as shown in figure 8, then click **Next**.

Please select the type of backup to recover from: OBMR OTBMR Otar,cpio	
Select [Next] to proceed.	<u>Figure 8</u> .
< Back Next > Cancel	

The **New Backup Location Wizard** dialogue box will now show. At this point you must tell CBMR where your backup file(s) are located. In this example we will choose **File Location**; the other options are explained in figure 9. For all other options a related dialogue will open.

Welcome to New Backup Location Wizard Please select a category: DE/SCSI Location Cascaded Location Cascaded Location Click Next to proceed	Allows you to scan for SCSI or IDE interfaces. Choose a file location for your backup. Create a Cascaded location with up to 10 devices. Allows you to choose a Library Location; with robotic device and barcode support. Choose a TSM location by entering the server and client information.
	Figure 9.
< Back Next > Cancel	
Setup File Location This dialog will allow you to set up a File Location. File locations can have a maximum size limit in megabytes.	
Name: backup File: /mnt/vtd/mylinux.vtd Size Information (in MB) Current Size: Maximum Size:	You can browse to where your backup file(s) are located by clicking the Browse button; you can also mount any required network shares as shown in figure 6.
	You do not need to fill in the size information.
	When you have finished entering your data, click Next to continue.
<back next=""> Cancel</back>	

Figure 10.



Figure 11.





The next dialogue box (figure 11) will ask you which backup location you wish to use. Choose the one you created in the last screen.

In this example, the backup is called **backup**. You should make sure you enter your own information as the one in this guide is an example only.

You will then be presented with the Restore Configuration dialogue box (Figure 12).

The name of the backup location you just created will appear under **Backup Location**.

You may specify any version number of a particular backup that you need restored.

If the backup is encrypted you should select the **Encryption Key** Type drop-down menu, select the correct encryption, then enter the correct **Encryption Key**.

Under normal circumstances you should leave 'Dataset Number' as 0. Click Next to continue.

You will then be presented with a screen which summarises the copying of the Configuration from the backup file you just selected.

It will look like the example shown here (figure 13).

Click **Next** to continue.

Start Recovery		
Specify the restore settin here.	ngs like the version of backup to restore and the dataset	
Backup Location	backup	Backup location chosen earlier.
Backup version	▼	
Encryption Key Type	None	Encryption options.
Encryption Key		
Dissimilar hardware	9	Dissimilar Hardware Support.
support	·	
Number of disks to recover	1	Current machine.
Machines to recover	127.0.0.1 (This machine) 192.168.152.130 backup	Additional machine which may be recovered to.
	<back next=""> Cancel</back>	Backup configurations for additional machine restoration.

Figure 14.

You are now almost ready to start the recovery.

You should select the relevant encryption options from the drop-down menu if you chose to encrypt your backup.

If you are **not** recovering to dissimilar hardware, you must un-check the box for **Dissimilar Hardware Support**. Not doing so can cause problems when restoring to similar hardware.

If you are recovering to dissimilar hardware: TBMR will find the required module(s) automatically. Normally this will happen with no further user intervention. If TBMR cannot find the required module, you will be prompted at the <u>end of the recovery</u> to provide a location that contains the required module(s).

You can choose to recover several machines which are running the CRC simultaneously by checking the corresponding tick-boxes beside the machine's IP address.

These machines may be recovered using the currently loaded configuration, or other configurations retrieved from the selected backup location. Select which backup configuration you wish to use from the drop down menu below the IP address tick-boxes. CBMR will default to the one that you have just created; as in the example shown here (figure 14).

When you are satisfied that all options are correct, click **Next** to begin recovering your machine(s).

Recovery Status	
Recovery Status //rnt/slash/usr/share/a2ps/sheets 68000.ssh (1590) a2p9rc.sah (1890) a3p3rc.sah (2805) ada.ssh (3200) ssh.(381 (2605) autoconf.ssh (1366) autoconf.ssh (1366) b.ssh (2843) b.ssh (2843) b.ssh (2843) b.ssh (2440) c.anl.ssh (1784) c.asl. (1665) c. ssh (2340) c.anl.ssh (1784) c.tdl.ssh (1665) c.tdl.ssh (1665) c.tdl.ssh (1783) c.tdl.ssh (1783) c.tdl.ssh (1784) c.tdl.ssh (1785) c.tdl.ssh (1840) c.tdl.s	
eiffel.ssh (2727) ellsp.ssh (2988) eps.ssh (1001) for-fixed.ssh (1388) for-free.ssh (1226)	- -
	Abort Close

Your recovery will now begin! You will see the files being recovered in the Recovery Status window (figure 15).

Figure 15.



Figure 16.

Upon completion of the recovery you will see the message shown in figure 16.

You should copy your log files as the message suggests; this will be covered in the next stage of this guide.

Click **OK** to clear the message.

name-based.nem (17416)	
/mnt/slash/var/www/usage	
msfree.png (1478)	
webalizer.png (1253)	
/mt/slash/var/yp	
nicknames (185)	
/mnt/slash/var/yp/binding	
Files = 98201	
Skipped = 41	
Directories - 8049	
Bytes = 2437661487	
Warnings = 0	
Errors - 0	
Time taken = 923 seconds	
Installation finished. No error reported.	
This is the contents of the device map /mnt/slash/bo	ot/grub/device
Check if this is correct or not. If any of the lines	is incorrect.
fix it and re-run the script 'grub-install'.	
# this device map was generated by anaconda	
(hd0) /dev/sda	
/mt/slash/boot unmounted	
unount /mnt/slash: Device or resource busy	
Recovery finished	
4	•

Figure 17.

Check the summary information at the bottom of the recovery status report for any errors.

Check the contents of the device map as the report suggests; if this is incorrect or you are unsure that the recovery has been completed correctly then you should run it again. Click **Close** to finish.



Figure 18.

You will now return to the CRC main menu.

Regardless of whether or not your restore has been successful, you should now copy your log files to a separate location where they can be accessed.

Log files are essential if you require support from Cristie; they detail exactly what has happened during the recovery on your system. **Without them, it is very difficult for Cristie to offer meaningful support.**

Copy Logfiles	
Specify the location where the logfiles need to be copied.	
Copy the logfiles to the following location:	
Browsei	
	Select the Copy Log Files as shown in figure 18.
	Click Browse to select a location to copy the log files to.
	Make sure this is a location which can be easily accessed in case there is a need to email and log files to Cristie for support purposes.
	1
<u>Figure 19</u> .	
In the CRC main menu you can click	k on the button to view the log files.
You should now re-start the recovered mac	chine by clicking 🦳 🧞 on the CRC Menu.

Page 14

7.0 Performing a Recovery - Text Mode

When a machine has crashed it can be recovered using the CBMR bootable CD-ROM. This is the same CD from which you installed the software. You should ensure your machine's BIOS is set up to boot from CD-ROM.

The process is in four or five stages:

- Boot into Recovery OS
- Read Configuration Data
- Restore Files
- Load additional drivers (if necessary)
- Reboot into recovered OS

Boot the machine using the CBMR bootable CD-ROM. You will be presented with the screen shown in figure 1.

Eristie Recovery Console V 6.2.1 Copyright (c) 2009 Eristie Software Limited (UR).
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Enter X to boot in graphical mode Enter T to boot in text mode boot: _

Figure 1.

Cristie highly recommend that you choose the <u>graphical mode</u> (go to section 6.0, page 7) which loads the Cristie Recovery Console (CRC), if, however, you wish to use the text menu based mode as shown in this section, press **T** and then press Enter.

raid6: sse1x1 1863 MB/s	
raid6: sse1x2 2496 MB/s	
raid6: sse2×1 3593 MB/s	
raid6: sse2x2 4613 MB/s	
raid5: using algorithm sse2x2 (4513 MB/s)	
md: raid6 personality registered for level 6	
Hd: raid5 personality registered for level 5	
Hd: raid4 personality registered for level 4	
raid5: automatically using best checksumming function: pIII_sse	
pIII_sse : 4796.000 MB/sec	
raid5: using function: plII_sse (4796.000 MB/sec)	
Md: Md driver 0.90.3 MAX_MD_DEVS=256, MD_SB_DISKS=27	
Md: bitmap version 4.39	Eiguro 2
device-маррет: ioctl: 4.11.0-ioctl (2006-09-14) initialised: dм-devel@redhat.com	<u>i iyure z</u> .
TCP bic registered	
NET: Registered protocol family 1_	
NET: Registered protocol family 17	
802.10 VLAN Support v1.8 Ben Greear (greearb@candelatech.com>	
All bugs added by David S. Miller (daven@redhat.com)	
Using IPI Shortcut Mode	
Freeing unused kernel memory: 228k freed	
input: AT Translated Set 2 keyboard as /class/input/input0	
Time: tsc clocksource has been installed.	
input: IMPS/2 Generic Wheel Mouse as /class/input/input1	
Do you wish to load the vmxnet driver (Y/N) ? _	

Load any drivers specific to your system when asked by pressing y.

In most cases you should load every driver that is requested. The exceptions are when there are SAN drivers which you may not want to load if you do not wish the recovery process to have access to your SAN disks.

The recovery console main menu should appear.



The simplest way to recover a machine is to use the Automatic Recovery option.



7.1 Load Hardware Drivers

Some, but not all, device drivers are loaded automatically at boot time. If the disk controller and network drivers required for recovery were automatically detected and loaded, the *Load Hardware Drivers* option may be ignored. If further drivers are required, or modules need to be listed or removed, this option should be selected. This menu may also be used to change the keyboard layout if the recovering system does not use a standard US keyboard.

To load additional storage modules, the Storage Modules option should be selected from the *Load Modules* menu.

	Cristie Recovery Console	
	Cristic Recovery Console	
2: 3. 4. 5. 6. Redraw: ^L	 Hardware Drivers Hardware Drivers Load Hodules Unload Hodules List Loaded Hodules System Details Skip Hard Disks Set Keyboard Driver Exit 	
Copyrig	ht (C) Cristie Software Ltd. 2003-2	800

To load additional network modules, the *Network Modules* option should be selected from the Load Modules menu.

	Cristie Recovery Console	
-1.	Cristie Recovery Console	
2. 3. 4. 5. 6.	Змате 9000 [Зм-9хох] Змате [Зм-хоох] Adaptec AACRAID [aacraid] Adaptec aic79xx [aic79xx] Adaptec aic7xxx (old) [aic7xxx old]	
Rednaw: ^L Copyri	Adaptec aic7xxx [aic7xxx] Adaptec aic94xx [aic94xx] Adaptec I20 [dpt_i2o] Advansys [advansys] AHCI SATA [ahci] ATP 870 [atp870u] Buslogic [Buslogic]	

7.2 Access Configuration

The configuration information must be retrieved before files can be restored. The *Access Configuration* menu item should be used for this.

7.3 Access Configuration From Remote Share

To access the configuration information from a remote share, the network must be configured and then the share mounted locally so that config files can be copied.

	Cristie Recovery Console
	Cristie Recovery Console
12. 33. 4. 5. 6. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	1. Access Configuration -2. 1. 3. 1. 4. 2. 5. 3. 6. 1. 7. 1. 1. From Remote Share 4. 2. 5. 7. 6. 1. 7. 1. 7. 1. 8. 1. 9. 1. 1
Redraw: ^L Copyrig	ht (C) Cristie Software Ltd. 2003-2008

7.4 Setup Network

The network should be configured to allow access to the share containing configuration information. To set up the network using DHCP, DHCP should be entered into the appropriate form fields.

IPAddress 👘	DHCP		
SubnetNask	DHCP		e
Gateway			
Nameserver			on Even Perete Shave
NetworkInterfa	ice		
	OK	Cancel	are ation From Remote Share

To set up the network using a static address, the network configuration information should be entered into the form.

Network Sett IPAddress SubnetMask Gateway Nameserver	ings 10,10,10,99 255,0,0,0 10,1,1,1 10,1,1,1		e on From Remote Share
Retwork Inter?		Cancel	are ation From Remote Share

7.5 Setup Remote Share

The share details should be entered into this form to allow mounting of NFS or CIFS shares. The filesystem type is automatically determined by the format of the share name. To mount an NFS share 10.2.1.20:/ data containing configuration information in a subdirectory called configs:

erverShare	10.2.1.20:/data	ConfigPath	configs
lserNane		Password	
ierver IPAddress		Norkgroup	
iecurity			
	ОК	Cancel	
	5, 3, S	elect Configurat	ion From Remote Share

To mount a CIFS share //10.2.1.20/data containing configuration information in a subdirectory called configs:

GerverShare	//10.2.1.20/data	ConfigPath	configs	
lserNane	ne	Password	2000001	
Server IPAddress		Horkgroup		
Security			1	
	OK	Cancel		
5. 3. Select Configuration From Remote Share 4. Exit				

7.6 Select Configuration From Remote Share

The configuration for the machine should be selected from the list provided by the Select Configuration From Remote Share option.

	Cristie Recovery Console	
	Cristie Recovery Console	
1 4 2, 3,	Automatic Recovery 1. //10.2.1.20/data/config	s
4. 5. 6.	 Z. sachine1 4. sachine2 5. sachine3 5. sachine3 	From Remote Share
	Exit	on From Remote Share
Redraw: TL Copyrig	dit (C) Cristie Software Ltd.	2003-2008

7.7 Access Configuration From Local Device

The configuration may be read from a local device eg floppy disk or memory key using this option.

Cristic Recovery Console Cristic Recovery Console 1. Automatic Recovery 2. 1. Access Configuration 42. 5. 3. 1. Access Configuration From Local Device	
b. 4. 5. 4. 2. Read Configuration From Local Device 5. 2. Read Configuration From Local Device	
Redraw: ^L Copyright (C) Cristie Software Ltd, 2003-2008	

7.8 Setup Local Device

The form should be used to setup the local device containing configuration details. If the configuration is stored on a floppy disk, the Device should be /dev/fd0, for the first USB device, use /dev/sda. The *Path* field should be relative to the device.

Path	/configs/wyse	rver	
	OK	Cancel	
	5. 6.	3. 1. Access Config. 4. 2.	ration From Local Device
		5. 5. 1. Setup Local 4. 2. Read Config 5. 3. Exit	pration From Local Device

7.9 Read Configuration From Local Device

	Cristie Recovery Console -1. Automatic Recovery 2. Access Configuration 42. J. Access Configuration From Local Device
Redraw: ^L	b. 4. 2. 5. 3. Exit 5. 3. Exit 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5

The configuration may be read from the local device by selecting this item in the menu below:

7.10 Access Configuration From TSM BA Client Backup

The configuration may be read from a TSM BA client backup using this option.

Cristie Recovery Console Cristie Recovery Console -1. Automatic Recovery
1. Access Configuration 1. Access Configuration 1. Access Configuration From BA Client Backup 6. 1. 5. 3. 6. 1. 5. 3. 1. Access Configuration From BA Client Backup 1. Access Configuration From TSM 2. Setup TSM server 3. Read Configuration From TSM 4. Exit
Redraw: ^L Copyright (C) Eristie Suftware Ltd. 2003-2008

7.11 Setup Network

The network should be configured to allow access to the TSM server. To set up the network using DHCP, DHCP should be entered into the fields IPAddress and SubnetMask. To set up the network using a static address, the network configuration specific to your own setup should be entered into the form.

(PAddness	10.10.10.99		
GubnetMask	255.0.0.0		e
Gateway	10,1,1,1		
laneserver	10,1,1,1		an Even Parente Share
letworkInterf a	ace 🛛		
] OK	Cancel	are ation From Remote Share

7.12 Setup TSM Server

The form should be used to enter details of the server where the configuration information is stored as part of the backup.

TSH Server		
TCPServenAddr	ess 10,2,1,20	
TCPPort	1500	
Nodenane	Nyserver	
Password	x0000000K	
	OK Cancel	lient Backup
	5, 3, Read Configuration 4, Exit	From TSH

7.13 Read Configuration From TSM

This should be used to read the configuration information from the TSM BA Client backup.

7.14 Test Backup Location

This option should be used to ensure that the backup location may be accessed successfully. It is not required if the configuration information has already been retrieved from the backup location.



Cristie Software Ltd, New Mill, Chestnut Lane, Stroud GL5 3EH, U.K Tel: +44 (0)1453 847 000 Fax: +44 (0)1453 847 001 **email: sales@cristie.com**