Invoking OBDR with TapeWare 7.0 with SP7D and Red Hat Enterprise Linux 3.0 RAID Environment

Configuration:

- Server: ProLiant DL360 G4, DL380 G4, DL385, DL580 G3
- Hard drive: Connected to an internal port on the Smart Array 6i controller
- Tape drive: Connected to an internal port, or the external port, on the Smart Array 6i controller

Invoking OBDR:

1) Boot the server and wait for the Smart Array 6i Controller information to be displayed
2) Press <F8> to run the Option ROM Configuration for Arrays Utility
3) Use the menu to delete any existing logical drives, then create a new logical drive

WARNING: This action is destructive and will result in data loss on the hard drive(s).

4) Select Configure OBDR and follow the prompts.
5) Press ESC when done. The server will continue booting.
6) The system boots from the tape drive and continues to the TapeWare Disaster Recovery Phase 2 screen (Available options...)
7) The tape drive must now be manually power cycled. This action takes the tape drive out of OBDR mode and puts the drive back into sequential SCSI tape mode.
    a. If the tape drive is hot plug, remove it from the server slot and then re-insert the tape drive
    b. If the tape drive is external, simply power-cycle the tape drive
    c. Select Alt + <F2> to open the Console 2 screen
8) Type in the following command. **IMPORTANT NOTE: Do not execute the command after typing it in. You will be instructed to execute the command in the next few steps.**

    # echo "engage scsi" > /proc/driver/cciss/cciss0 **(DO NOT PRESS ENTER YET)**

9) Select Alt + <F1> to return to the Console 1 screen (TapeWare GUI)
10) Select "Restore Entire System", then follow the prompts until you get to "Yes, Perform the Recovery".
11) Press ENTER to start the restore process.
12) Switch back to the Console 2 screen by selecting Alt + <F2>.
13) Since the "engage scsi" command has already been typed, press ENTER to execute the command.
14) Switch back to Console 1 by selecting Alt + <F1>. The restore process has begun and the data recovery process should complete.
15) Upon completion, you will get to the "Any more tapes..." screen. Make note of the statement at the bottom of the screen which indicates that xxxxxx files and directories have been restored.
16) Press ESC to continue
17) The Server will reboot automatically
18) The OBDR – restored Operating System is now functional

Invoking OBDR with TapeWare 7.0 with SP7D and Red Hat Enterprise Linux 3.0 NON-RAID Environment

Configuration:

- Server: All ProLiant ML and DL models 1xx, 3xx and 5xx
- Hard drive: Connected to the Single Channel (374654-B21) or Dual Channel (268351-B21) 64-bit / 133 MHz LSI U320 SCSI Controller
- Tape drive: Connected to the Single Channel (374654-B21) or Dual Channel (268351-B21) 64-bit / 133 MHz LSI U320 SCSI Controller

Invoking OBDR:

1) Boot the server and wait for the LSI Logic MPT BIOS message to appear
2) Press <F8> for configuration options
3) Select option "1. Tape-based One Button Disaster Recovery (OBDR)." The system will then attempt to detect a compatible tape device.
4) Once the compatible tape device is found, select the corresponding NUM of the tape drive to place into OBDR mode. (Normally this NUM value is 0).
5) The server will now reboot to begin Tape Recovery.
6) At the TapeWare Disaster Recovery Phase 2 screen (Available options...), select Alt + <F2> to open the Console 2 screen.
7) At the # prompt execute the following commands:

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# rm /dev/sg0
# ln -s /dev/sg1 /dev/sg0
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8) Select Alt + <F1> to return to the Console 1 screen (TapeWare GUI)
9) Select "Restore Entire System", then follow the prompts until you get to "Yes, Perform the Recovery".
10) Press ENTER to start the restore process.
11) Upon completion, you will get to the "Any more tapes..." screen. Make note of the statement at the bottom of the screen which indicates that xxxxxx files and directories have been restored.
12) Press ESC to continue
13) The Server will reboot automatically
14) The OBDR restored Operating System is now functional