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## Installing and Using the Iomega Ditto™ External Tape Drive for OS/2-Based Systems

This note provides information on the requirements for installing and configuring the Iomega Ditto™ external tape drive for the messaging systems running under OS/2 Warp. The steps in this note help you:

- Install the tape drive hardware
- Install the tape drive software
- Select the files to be backed up
- Configure the messaging system software to automatically backup the selected files

Backed up files are stored on the tape cassette. Refer to the *Ditto Tape Systems User's Guide* for information on re-installing compressed files.

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### Notes:

You should not back up messaging systems files while the messaging software is running. Be sure to properly shut down the messaging system before instituting any type of backup procedure, including tape formatting.

Make sure you insert a tape cartridge into the Ditto tape drive before attempting to perform a backup.

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### Ditto Tape Drive Components

The Ditto tape drive includes the following components:

- Ditto external tape drive
- Ditto Tools backup software
- External power supply
- Parallel port cable (cable with 25-pin connectors)
- Tape cartridge

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## Connecting the Ditto Tape Drive Hardware

The following procedure outlines the general steps for connecting the Ditto tape drive in the computer.

### To install the tape backup hardware:

1. Shut down the messaging system and turn off the computer.
2. If a printer is currently attached to the sentinel on the PC's parallel port, unplug it.
3. Connect the female end of the parallel cable to the Ditto 25-pin connector (has a PC icon below it).
4. Connect the male end of the parallel cable to the sentinel on the messaging system PC's parallel port.
5. If a printer was connected to the messaging system, plug the printer cable into the Ditto drives parallel port (has a printer icon below it).
6. Connect the external power supply to the tape drive and plug the other end into an electrical outlet. When the Ditto drive is first plugged in, the tape drive activity light (small LED on the far right of the front of the drive) flashes and turns off. The power light (small LED to the left of the activity light) stays on.

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For best results, position the Ditto tape drive at least 10 inches (25 cm) from the messaging system PC monitor.

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7. Turn on the messaging system PC.

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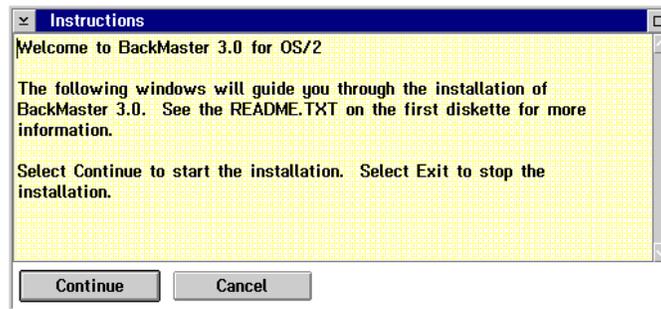
## Installing the Tape Backup Software on OS/2 Systems

Follow the steps in the procedure below to install and configure the BackMaster software on systems using OS/2. For additional information, refer to the *BackMaster User Reference Manual*.

### To install the tape backup software on OS/2 Systems:

1. If the messaging system is running, select Exit from the File menu to shut it down.
2. Insert the BackMaster installation disk in the disk drive.
3. Open an OS/2 window.
4. At the command prompt, type `A:` and press <ENTER>. The A: prompt displays.

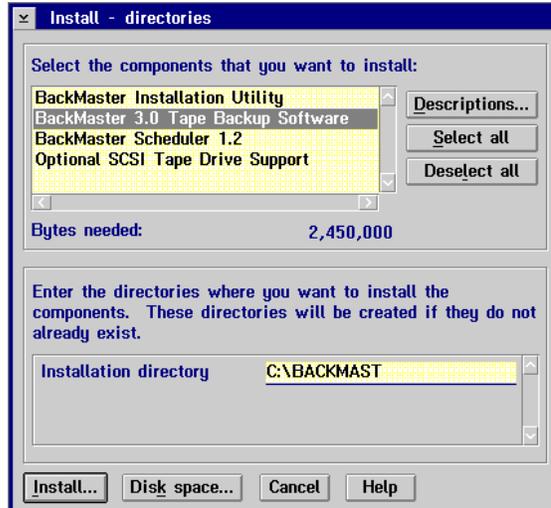
- From the A: prompt, type `INSTALL` and press `<ENTER>`. You are prompted to wait while the system loads the necessary files. Once the files are loaded, the Instructions dialog box displays.



- Click Continue. The Install dialog box displays.



- Click OK. The Install-Directories dialog box displays.



- Under Select the components that you want to install, select BackMaster 3.xx Tape Backup Software. The amount of disk space required for installation is displayed next to Bytes needed. You can click Disk space to verify that there is sufficient disk space available on the target drive.
- Leave the installation directory at the default C:\BACKMAST.
- Click Install.
- When prompted, remove the installation disk and insert diskette 2 in the disk drive. If you used a disk drive other than A:, specify the appropriate drive letter in the Drive field.

- Click Continue. You are prompted to wait while the system unpacks the required files. The BackMaster Installation dialog box displays.



- Enable Parallel/external port tape driver and disable all other options.

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If the messaging system PC has only 8 MB RAM installed, also enable the Device driver memory enhancement option.

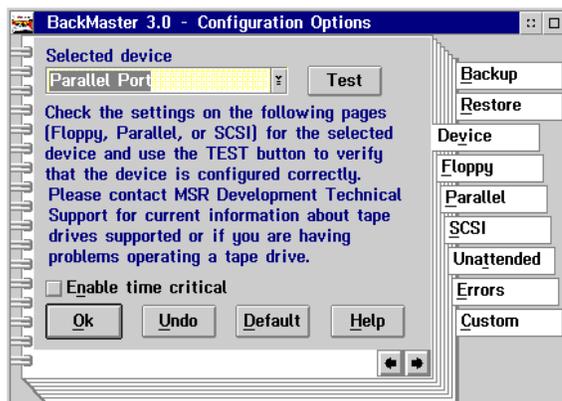
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- Click OK. The BackMaster Configuration Complete dialog box displays.

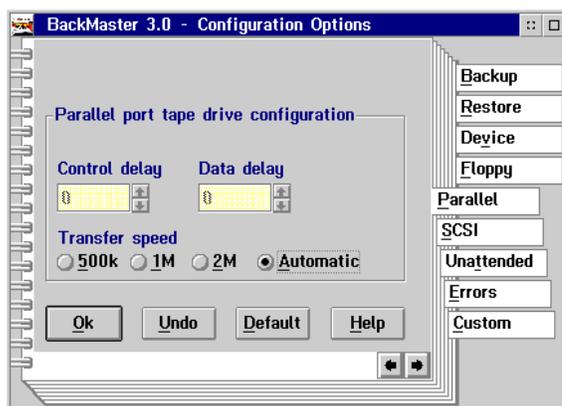


- Click OK. The Installation and Maintenance dialog box displays.
- Click OK. The OS/2 window displays.
- To close the OS/2 window, type `EXIT` then press <ENTER>.
- Remove the disk from the disk drive.
- Close any open applications and windows, then select Shutdown from the LaunchPad and follow the onscreen prompts to reboot the PC.
- Once the PC reboots and the OS/2 desktop displays, shut down the messaging system if it is configured to launch automatically on bootup.
- Insert a blank tape cartridge in the Ditto tape drive.

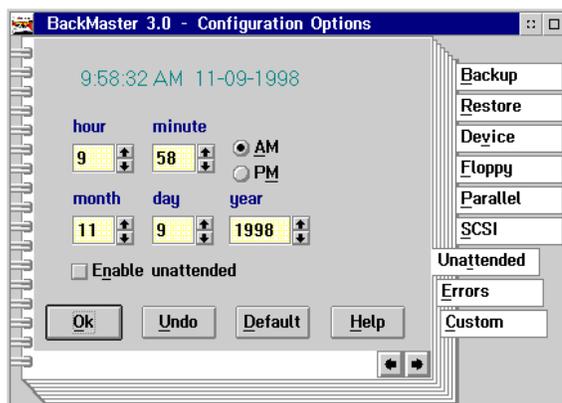
22. Open the BackMaster program by opening the BackMaster folder and double-clicking the BackMaster program icon. The Configuration Options notebook displays the Device tab the first time you open BackMaster.



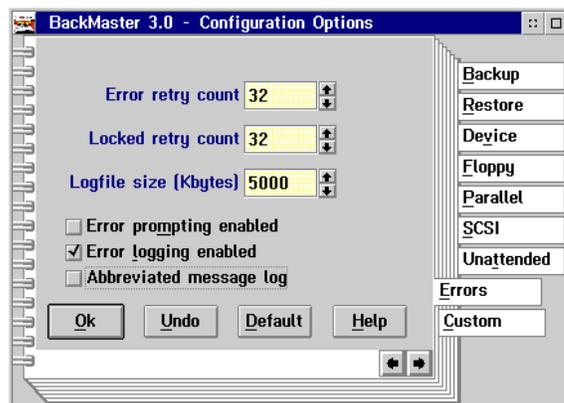
23. Verify that the Selected device field displays Parallel Port and verify that the Enable time critical box is unchecked.
24. Click Test to verify that the device is configured correctly.
25. When the message displays that the tape drive was successfully detected, click OK.
26. Click the Parallel tab to display the Parallel page.



27. Leave Transfer Speed at the default, Automatic, and click OK.
28. Click the Unattended tab to display the Unattended page.



29. Verify that the Enable Unattended box is unchecked, then click the Errors tab to display the Errors page.



30. Leave the values for Error retry count, Locked retry count, and Logfile size values at the defaults. Disable the Error Prompting Enabled and Abbreviated Message Log boxes and verify that the Error Logging Enabled box is checked.
31. To accept your selections and exit the Configuration Options notebook, click OK. The BackMaster main window displays.

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## Selecting Files for Tape Backup

The steps for selecting the directories and files that comprise an effective messaging system backup are detailed below.

### To select files for backup:

1. Access the BackMaster main window, if it is not currently displayed.
2. From the Backup menu, choose Selective.
3. In the Drives field, select the letter of the drive(s) containing messaging system files. Click OK. The Selection Window displays.
4. Click the + sign to display the subdirectories on the root drive you selected.
5. Select the subdirectories you want to back up by clicking the directory then pressing <SPACEBAR> to check it. You can use the up and down arrows to scroll through the directory tree. Select the following directories:
  - CVR
  - CVR1
  - REC00 through REC09
  - FAX00 through FAX09
  - BACKUP1 through BACKUP5

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If a + appears next to any of the directories listed above, that indicates that there are subdirectories present. If you do not want the subdirectories backed up, click the + sign next to the main directory that contains the subdirectories, then for each subdirectory that you do not want backed up, click the subdirectory and press <SPACEBAR> to remove the check.

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6. Highlight the drive icon at the top of the tree, and click the - sign to close the subdirectories.
7. Press <ENTER> to open a box containing the files on the root drive you selected.
8. Select the following files by highlighting them using the arrow keys then pressing the <SPACEBAR>. Select the messaging system files and the Dialogic files for the voice board(s) in the system.

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Some of the files listed below are not available on all systems.

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**System Files:**

AUTOEXEC.BAT  
BFAX.SYS  
BTLIB.CFG  
BT\_CPARM.CFG  
CONFIG.SYS  
FAXINIT.EXE  
FIRMWARE.EXE  
IBMPCPS.FZ8  
STARTUP.CMD  
TR114.PEX

**Dialogic Files:**

D12X.FWL  
D42NS.FWL  
D42SL.FWL  
D42SX.FWL  
D4X.FWL  
D4XDNLD.EXE  
D8X.FWL  
DIALOGIC.CFG  
DXXXDRV.SYS  
GENBOOT.BIN  
GENBOOT.FWL  
GENLOAD.SYS  
OCTEL.PRM

9. Press <ESC> to close the file contents box.
10. From the Backup menu, select Save file selections. The File Selection Set-Save As dialog box displays.
11. In the Save as filename field, type TAPE.FSS.
12. Click OK.
13. If you want to run a manual backup at this time, select Start backup from the Backup menu. If you do not want to run a backup now, select Cancel Backup from the Backup menu, then click Yes.
14. To close the BackMaster program, double-click the icon in the top-left corner of the BackMaster main window.
15. To close the BackMaster folder, double-click the icon in the top left corner of the folder window.

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## Setting Up the System for Automatic Backups

The following three procedures contain the steps for configuring the messaging system to run automatic tape backup during the software's maintenance routine.

The configuration process consists of three general steps:

- Creating a .CMD file to initiate the backup
- Modifying RUNVM.CMD to indicate when to run the backup
- Adjusting System Setup to allow the backup to run

**To create an TAPE.CMD file to run backup:**

1. Open an OS/2 window.
2. Change to the BACKMAST directory by typing `CD \BACKMAST` and pressing <ENTER>.
3. Open the OS/2 editor by typing `E` and pressing <ENTER>.
4. Type the following in the editor window:

```
C:  
CD\BACKMAST  
BACKMAST /QE  
BACKMAST /BS:"XXX BACKUP" C:\BACKMAST\FSS\TAPE.FSS  
CD\CVR
```

Where `C:` is the drive on which the system is installed.

5. From the File pull-down menu, select Save. The Save As dialog box displays. In the Save as filename field, type `TAPE.CMD`.
6. Click the Type... button. The Type dialog box displays. Select OS/2 Command File from the scroll list. To close the Type dialog box click Set.
7. To close the Save as box, click Save.
8. To close the OS/2 editor and return to the OS/2 window, double-click the icon in the top-left corner of the editor box.
9. Test the TAPE.CMD file you just created by shutting down the messaging system, then running the TAPE.CMD file by typing `TAPE.CMD` at the \BACKMAST prompt and pressing <ENTER>. The BackMaster screen displays and the tape backup system performs a backup. Once the backup is complete, the program automatically verifies that all of the files were backed up.

**To indicate the day(s) to run automatic tape backup:**

1. At the BACKMAST directory prompt, change to the root directory by typing `CD .` and pressing <ENTER>. To change to the CVR directory, type `CD CVR` then press <ENTER>.
2. To edit the RUNVM.CMD file, type `E RUNVM.CMD` and press <ENTER>.
3. Locate the line `ECHO TODAY IS XXXXXXXX` line, where `XXXXXXX` is the name of the day when you want to run the backup.
4. Press <End> to move the cursor to the end of the line, then press <ENTER> to start a new line.
5. With the cursor at the start of the new line, type the following:

```
CALL X:\BACKMAST\TAPE.CMD
```

where `X` is the drive on which the BackMaster software is installed.

6. To save the file, select Save from the File menu.
7. To exit the editor and return to the OS/2 window, double-click the icon in the top-left corner of the editor window.
8. To close the OS/2 window, type `EXIT` at the prompt and press <ENTER>.

**To configure the messaging system for automatic backups:**

1. Open the messaging system folder on the OS/2 desktop by double-clicking the folder icon.
2. Double-click the messaging system program icon.
3. Under the File menu, select Password. The Supervisor Password dialog box displays.
4. Enter the level 3 password in the field and press <ENTER>. Click OK to close the password accepted dialog box.
5. Under the Options menu, select System Setup. The System Setup General Parameter tab displays.
6. Highlight Daily Maintenance Time. This is the time when the system runs system maintenance and backs up the system files. Enter a number between 0 and 23 (midnight and 11:00 PM, respectively).
7. Click Shutdown System after Daily Maintenance to enable it.
8. To save the System Setup, select Save from the File menu.
9. To close System Setup and return to the System Manager window, select Exit from the File menu.
10. Log off the system by selecting Logoff from the File menu.

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Be advised that if a tape is not inserted into the tape backup drive, or if the tape that is inserted is not operational (is a "bad" tape), the automated attendant/voice mail system will not restart as it should after the system shuts down to perform daily maintenance.

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**Notes:**