INSTALLATION OF THE MARKVISION PRINTER UTILITY ON A NOVELL NETWORK

for Printer Toolkit v3.02, MarkVision v1.01

These instructions are for the installation of the Toolkit and MarkVision Printer utilities on a Novell network server where Windows V3.1 is running on the network. This will allow MarkVision to be run from a Novell workstation where the network drive is read-only from the workstation. The Printer Toolkit can only be run from a read-write drive. Before beginning, please note the following:

1. Everywhere in these instructions where you encounter the drive letter `Z:`, please substitute your Novell network drive letter to which you are installing MarkVision or where MarkVision is already installed. It is suggested that this be the same drive letter as your network installed Windows V3.1.

2. Everywhere in these instructions where you encounter the drive letter `C:`, please substitute your local drive letter in which your local Windows V3.1 initialization files are found. (i.e. `C:\WINDOWS\WIN.INI)` This location could also be a write enabled location on a network drive.

3. If the drive letter of your network installed Windows V3.1 as seen from the server (with read-write capability) is not the same drive letter as seen from the workstations, you may encounter problems with paths in some initialization files. These instructions assume that the drive letters are the same.

These instructions include:

I. MarkVision and Toolkit Installation on a Network Server

II. MarkVision Installation on a Novell Network Workstation

III. Enabling MarkVision Sounds Via a PC Speaker

IV. Unpacking DOS Drivers and Storing on a Novell Network Drive

V. Installing DOS Drivers From a Novell Network Drive

I. MarkVision and Toolkit Installation on a Novell Network Server

As an administrator with read-write access, go to the Novell network drive where you wish to install MarkVision. We will assume drive `Z:`. Insert the Printer Utilities Setup diskette into the `A:` drive and type `a:setup`.

This installation utility will install both the Printer Toolkit and MarkVision. It is not possible to just install MarkVision with this utility. The Toolkit package cannot be run from a network drive with read-only access. It can be run on the server, since it will have read-write access to the toolkit configuration file. (`Z:\PRT4039\PRTUTIL.CFG`)

1. When "Printer Setup Utility" screen appears, select **OK**.

2. Select your default printer port, then select **OK**.

3. Print a sample document (if desired) by selecting **OK**; otherwise, select **Skip**.

4. Under "Choosing Setup Method" select **Custom**.

5. Under "Printer Selection" select your printer type, then select **OK**.

6. Under "Printer Driver Update Configuration" select your supported printer languages, then select **OK**.

7. Under "Default Application Search" select **Skip**.

8. Under "Toolkit Scan" select **Skip**.

9. On the screen titled "Install Printer Toolkit," under "Path Location for the Printer Toolkit," enter "`Z:\PRT4039`". The setup utility will install the Printer Toolkit on the network. Wait for install to complete.

10. On the screen titled "Microsoft Windows Location," under "Windows path:" enter "`C:\WINDOWS`". The setup utility will install MarkVision on your network drive in the directory `Z:\PRT4039`. (Note: the utility will not recognize the portion of Windows V3.1 installed on your network drive; you must enter the path where your local initialization files are stored.)

11. Choose **OK** when asked to update your `CONFIG.SYS` file, then select **OK**.

12. Under "Printer Options" select **Skip**. (Options can be added later.)

13. Follow the prompts until you **Exit** the setup utility.

14. Go to a DOS prompt and type the following:

```
COPY C:\WINDOWS\LEXNPA.DLL   Z:\WINDOWS
COPY C:\WINDOWS\CTL3D.DLL    Z:\WINDOWS
COPY C:\WINDOWS\PTAPIW16.DLL Z:\WINDOWS
COPY C:\WINDOWS\VPD.386      Z:\WINDOWS
COPY C:\WINDOWS\LEX01.386    Z:\WINDOWS
COPY Z:\PRT4039\SPEAKER.DRV  Z:\WINDOWS
```

Everything will now be in place to set up MarkVision from a *workstation* using the instructions provided. To run MarkVision at the *server*, simply start Windows V3.1. MarkVision Setup will automatically come up. Just follow the prompts to complete the MarkVision install. MarkVision running at the server will use the `Z:` drive for storing its initialization files. The Printer Toolkit can also be accessed through MarkVision running at the server.

The Printer Toolkit cannot be run from a workstation that has read-only access to the network drive. If you wish to make it active from a workstation, the directory `Z:\PRT4039` will need to be read-write from that workstation. Keep in mind that if this is done, all workstations with such access will be able to change the Toolkit's configuration file. An individual configuration for each workstation is not possible.

II. MarkVision Installation on a Novell Network Workstation

1. Go to a DOS prompt and type the following:

```
C:
CD\
MD PRT4039
COPY Z:\PRT4039\BIDIDRVR.SYS C:\PRT4039
COPY Z:\PRT4039\LEXPANEL.INI C:\PRT4039
COPY Z:\WINDOWS\VPD.386      C:\WINDOWS
COPY Z:\WINDOWS\LEX01.386    C:\WINDOWS
```

2. Using any text editor, do the following:

    a. Edit `C:\WINDOWS\SYSTEM.INI`

    b. Find the section in the file with the heading `[386Enh]`

    c. Add the following lines at the end of this section:

    ```
    device=LEX01.386
    device=VPD.386
    ```

    d. Edit `C:\WINDOWS\WIN.INI`

e. Add the following section to the end of the file:

```
[MarkVision]
configuration=C:\PRT4039\lexpanel.ini
```

f. Edit `C:\PRT4039\LEXPANEL.INI`

g. Find the line:

```
setupmode=0
```

Change this line to:

```
setupmode=1
```

h. Make the following changes to your `AUTOEXEC.BAT` file:

At the beginning of the path statement, add:

```
C:\PRT4039;
```

So that your path statement will look something like:

```
PATH=C:\PRT4039;c:\windows;z:\windows;c:\dos;
```
etc.

i. Make the following addition to your `CONFIG.SYS` file if you want to use the bi-directional features of the DOS Printer Toolkit:

At the end of the file, add the line:

```
DEVICE=C:\PRT4039\BIDIDRVR.SYS
```

3. If you wish to enable MarkVision sounds, follow the procedure on page 5 before continuing.

4. Reboot your system.

5. Start Windows V3.1 at the workstation.

6. If there are no printer drivers installed on your Windows V3.1 workstation, follow the procedure for installing DOS drivers on page 7 before continuing.

7. From "Program Manager" select **File**. A menu will appear.

8. From the menu, select **Run...**

9. At the command line that appears, type `Z:\PRT4039\LEXPANEL.EXE`, then select <u>OK</u>.

10. At "MarkVision Setup" select OK.

11. At "Add Program Manager Item" select OK.

12. If asked to enable MarkVision sounds and you did not follow the procedure given for sounds, select No.

You will now be running the MarkVision Printer Utility. It should find your locally attached printer or give you a list of the network attached printers available (if more than one is on the network.) You should be able to use all of the MarkVision features except for the Printer Toolkit; note that this button will not be grayed out.

You should now have a Program Manager group folder named **MarkVision**. You can now access this utility in the future by double-clicking your left mouse button on the MarkVision icon in this folder.

If the procedure for enabling MarkVision sounds was followed, you may need to do the following to activate the sounds:

13. At "MarkVision Printer Utility" select **Configure**. A menu will appear.

14. From the menu, select **Sound Setup...**

15. At "Sound Setup" find the box labeled **Enable Sounds** and check it; an '**x**' will appear in the box indicating that sounds are enabled.

16. Select OK to save settings and exit.

III. Enabling MarkVision Sounds Via a PC Speaker

Using any text editor, do the following:

1. Edit `C:\WINDOWS\SYSTEM.INI`, and add the following new section at the end of the file:

```
[speaker.drv]
CPU Speed=27
Volume=500
Version=774
Enhanced=1
Max seconds=0
Leave interrupts enabled=0
```

2. Find the section in the file with the heading `[drivers]`, and add the following line to the end of this section:

```
Wave=speaker.drv
```

3. Edit `C:\WINDOWS\CONTROL.INI`. Add the following new section if it does not exist, or append to the section if it does exists:

```
[drivers.desc]
speaker.drv=Sound Driver for PC-Speaker
```

4. Add the following new section:

```
[Userinstallable.drivers]
Wave=speaker.drv
```

If you are adding sounds after completely installing MarkVision at a workstation, Windows V3.1 will need to be restarted for the changes to take effect. This will also enable other Windows V3.1 system sounds; these system sounds can be controlled through the <u>Control Panel</u>. Once you are in Windows V3.1 again, you may have to follow steps 13-16 on page 5 to activate the MarkVision sounds.

You may find that the MarkVision and system sounds are played too fast or slow, producing sounds with an exaggerated high or low pitch. If this occurs, do the following:

5. Start Windows V3.1 at the workstation.

6. Open the folder **Main**.

7. Select **Control Panel**.

8. Select **Drivers**.

9. Under "Installed Drivers" highlight the line **Sound Driver for PC-Speaker**, then select <u>Setup...</u>

10. Under "PC-Speaker Setup" select <u>Default</u>. This will calibrate the speaker driver for your CPU. Note that this will change the line "`CPU Speed=27`" in the `SYSTEM.INI` file that was edited earlier.

11. Select <u>OK</u>.

12. Select <u>Close</u>.

The MarkVision and system sounds should now play normally.

IV. Unpacking DOS Drivers and Storing on a Novell Network Drive

The following procedure is for a Novell administrator to perform on a network drive with read-write access. Once the drivers are unpacked, workstation users can install the drivers they need directly off the network.

1. Go to a DOS prompt and insert the DOS Drivers diskette into drive `A:`.

2. Type `a:unpckdrv` and follow the directions as prompted.

3. Select the driver you want from the given list.

4. Choose a target drive on the same network drive as Windows V3.1 (suggest making a directory such as `Z:\DRIVERS`) For each driver, unpack it into a unique directory, such as `Z:\DRIVERS\WINPCL5` for the Windows V3.1 PCL5 driver. The driver unpack utility will make the desired directory for you.

5. Follow the prompts for each new driver you wish to install.

V. Installing DOS Drivers From a Novell Network Drive

1. Start Windows V3.1 at the workstation.

2. Open the folder **Main**.

3. Select **Control Panel**.

4. Select **Printers**.

5. Select <u>Add>></u>. (Only necessary if you already have any printer driver installed.)

6. Under "List of Printers:" select **Install Unlisted or Updated Printer** then select <u>Install...</u>

7. Enter the network path your administrator has set up to store the Windows V3.1 drivers, then select <u>OK</u>.

8. Select your printer from the "List of Printers:" the select <u>OK</u>.

9. Repeat for all drivers you wish to install.

10. If you install more than one driver, select your default printer by highlighting the desired printer in the "Installed Printers:" box, then select <u>Set As Default Printer</u>.

11. When done, select Close.

12. Exit Windows V3.1 by closing Program Manager.