



**MICROBOARDS**<sup>®</sup>  
*Technology*



# PrintWrite 2

*For Microsoft Windows<sup>®</sup> 7, Vista, and XP*

## Users Manual



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# Introduction

Microboards PrintWrite 2 software is designed to be the disc publishing solution for use with any of the Microboards Disc Publisher models. Whether you are publishing only a few discs a day on a G4 Disc Publisher or thousands on an MX Disc Publisher, PrintWrite 2 is the publishing software designed by Microboards specifically for your disc publishing equipment.

PrintWrite 2 uses SureThing Disc Labeler software to design your disc labels.

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## Local Client vs. Remote Client Use

PrintWrite 2 gives you the option of making your Disc Publisher accessible to other PCs on your network. This allows multiple people to publish discs from their own PCs using a single Disc Publisher. Operation will be slightly different if you are using a Publisher connected directly to your PC as opposed to using a Publisher connected to another PC on your network.

The terms **Local Client** and **Remote Client** will be used throughout this manual and in the PrintWrite 2 Help pages. Please familiarize yourself with the meanings of these two client types.

### Local Client

If you are using a Disc Publisher that is connected directly to and installed on your PC, you will be operating PrintWrite 2 as the **Local Client** with your PC being the **Local Client PC**. The full hardware installation is required as well as the installation of PrintWrite 2 and SureThing Disc Labeler.

As the Local Client, you will have administrative control over the Disc Publisher connected to your PC, including control over all jobs submitted to the Disc Publisher.

The Local Client PC has configuration requirements that must be met before other PCs can connect to the Disc Publisher. These requirements are specified in the **Local Client Installation and Configuration** section of this manual (see pages 8-9), as well as in an abbreviated reference list on page 36.

### Remote Client

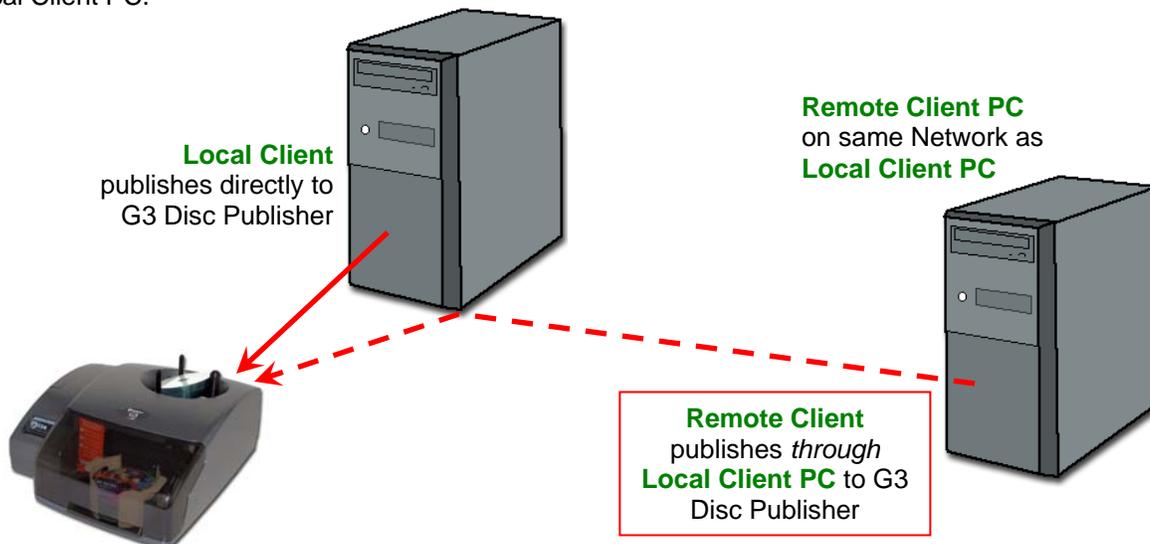
If you are using a Disc Publisher that is connected to another PC on your network, you will be operating PrintWrite 2 as a **Remote Client** with your PC being a **Remote Client PC**. It is not necessary to install the Disc Publisher hardware on your PC to be a Remote Client, but PrintWrite 2 and SureThing Disc Labeler must be installed.

The Remote Client is more limited than the Local Client. Some of the duplication project types such as Batch Copy or Copy Disc that require direct access to the Disc Publisher itself are not allowed, for instance.

Also, the Remote Client can only affect those jobs submitted from the Remote Client PC. Anything that the Remote Client cannot do will be listed in this manual as specific to the Local Client.

For each Disc Publisher, there must be one Local Client, but there may be multiple Remote Clients.

**NOTE:** Remote Client and Local Client PCs must be members of the same Network Domain or Workgroup. Mixing different Domains and/or Workgroups may result in difficulty connecting a Remote Client PC to a Local Client PC.



# Microboards Disc Publishers

Microboards PrintWrite 2 software is designed to be the disc publishing solution for use with the supported Microboards Disc Publishers listed below.

***Using PrintWrite 2 with any other burning and printing hardware is not supported!***

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## G4 Disc Publisher

Input/Output Capacity: 50 discs

Number of Drives: 1

Print-Only Mode: Uses PrintWrite to print labels or print directly out of other applications

Microboards G4 Disc Publisher is a robust, versatile entry-level publishing system. Featuring a 50-disc input/output capacity, dual ink cartridge system, 4800 dpi inkjet printing, and a high-speed DVD/CD recorder, the G4 is perfect for low- to mid-volume requirements. Churches, schools, audio recording studios, and video production houses will all benefit from its rapid output, ease of use, and low operating cost.



## MX Series Disc Publishers

Input/Output Capacity: 100 discs

Number of Drives: MX-1: 1 recorder drive  
MX-2: 2 recorder drives

Print-Only Mode: Uses PrintWrite to print labels or print directly out of other applications

The MX-1 and MX-2 Disc Publishers are ideal for organizations that need to produce anywhere from one to thousands of discs! Designed for industrial environments, the MX comes with either 1 (MX-1) or 2 (MX-2) high-speed DVD/CD or BD/DVD/CD recorders and the industry's fastest, lowest cost-per-disc inkjet printer, all integrated into a robust publishing solution.



## G3 Disc Publisher

Input/Output Capacity: 50 discs

Number of Drives: 1

Print-Only Mode: Prints directly out of SureThing or other applications

The G3 Disc Publisher is designed for office desktop use and is the perfect solution for businesses and organizations requiring short runs of discs.



## CX-1 Disc Publisher

Input/Output Capacity: 100 discs

Number of Drives: 1

Print-Only Mode: Prints directly out of SureThing or other applications

For all-in-one publishing, the CX-1 Disc Publisher gives you all of the features and benefits of the PF-3 Print Factory<sup>®</sup> with an added high-speed DVD/CD recorder and a complete software suite. The industrial CX-1 will burn virtually any DVD or CD format, including Dual Layer.



# Installing PrintWrite 2

Installation of PrintWrite 2 will differ slightly for the Local Client and Remote Client. Regardless of the Client type, installation is performed using the PrintWrite 2 Installation Disc included with your Disc Publisher. In both cases, installation begins with inserting the installation disc into a drive on your PC.

If the Installer does not open automatically, use Windows Explorer to browse to the drive and double-click **MBInstall.exe**.

Both Local Client and Remote Client installation will require you to reboot your PC after the installation completes.



## System Requirements

### Supported Operating Systems

- 64-Bit: Windows 7 and Vista
- 32-Bit: Windows 7, Vista, and XP with SP2.

### Processor

Intel Core2 Duo or equivalent.

### System Memory

Minimum 2 GB of system memory.

### Hard Drive Space

Approximately 180MB of free space is required on the system hard drive for the applications and drivers.

A separate internal 7200 RPM hard drive is recommended for storing your data. Using the same hard drive as the operating system can cause the system to perform slowly.

### USB Connection

USB 2.0 is required.

## Windows Component Prerequisites

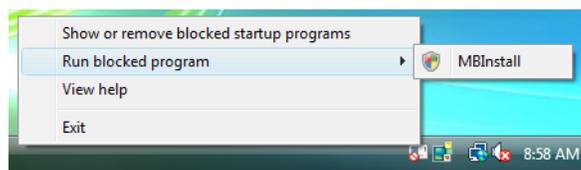
During the installation process, your PC will be checked to determine if required Microsoft Windows components are present. If not, these components will be installed. You cannot continue the installation without installing these necessary Microsoft Windows components.

After the Prerequisite installation completes, you will be prompted to reboot your PC. If you are instructed to reboot, you must do so before the installation can continue. After rebooting, the Installer will automatically restart.

If your PC has the Windows User Account Control (UAC) turned **On**, you will see the notice to the right appear.



Double-click the tooltray icon indicated and select Run blocked Program. Click the **MBInstall** entry as shown to the right to re-launch the Disc Publisher installer.



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# PrintWrite 2 Software Re-Installation

**It is recommended that you uninstall PrintWrite 2 prior to reinstallation!**

There are 2 methods of reinstalling the PrintWrite 2 software should the need arise:

- A. The Disc Publisher installers are also located on the Installation CD. To manually reinstall PrintWrite 2, browse to the **Applications\PrintWrite 2** directory on the Installation CD and run **setup.exe** (32-bit) or **setup\_x64.exe** (64-bit) to reinstall PrintWrite 2 manually.
- B. The PrintWrite 2 Disc Publisher software installer was also added to your hard drive in the event that you need to reinstall but do not have access to the Installation CD. Browse to the **C:\Program Files\Microboards\PrintWrite 2 for Remote Client\Applications** directory on your hard drive and double-click **setup.exe** (32-bit) or **setup\_x64.exe** (64-bit) to reinstall PrintWrite 2.

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## Local Client Installation and Configuration

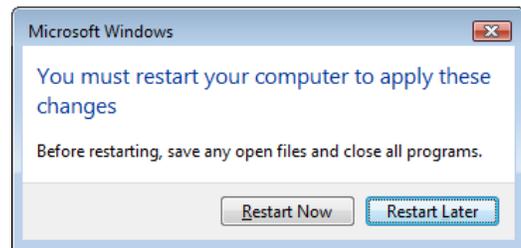
For Local Client installation, which includes the installation of the hardware as well as the software, select the Microboards Disc Publisher model you will be connecting to your PC from the list provided and click the Install button that appears. The Microboards Disc Publisher installation that will be launched will include the necessary hardware and software installations needed for use as a Local Client.

Installation of both PrintWrite 2 and the Disc Publisher should be performed by a user with full administrative rights. Under some scenarios, a non-administrative user can install PrintWrite 2, but there may be access issues for other users on the PC.

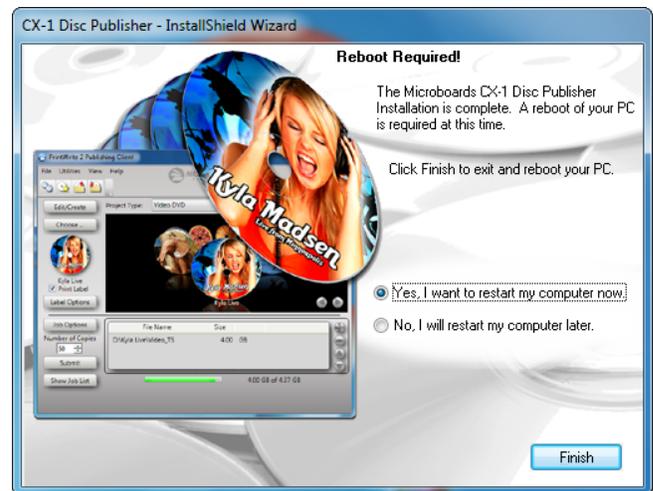
### Windows Vista and Reboot Requirements

After connecting the hardware to a PC running Windows Vista as the Operating System, you may be presented with a dialog notifying you of a required reboot, as shown to the right.

Click the **Restart Later** button if this dialog appears. There will be a required reboot at the very end of the installation process, after the Disc Publisher software is installed.



You should select the reboot option only when the reboot request as shown to the right appears after the Disc Publisher software installation is complete.



### Windows Firewall Exceptions

As part of the installation, you will be asked if you want to add **Ports 10450** and **10451** to the Windows Firewall Exception list and allow access through these two ports. These ports must be made accessible on your PC for a Remote Client to successfully connect to the Disc Publisher.

If you choose to not allow access to these ports, the Exceptions will be added to the list but in a disabled state. This will allow you to allow access to the necessary ports easily should you decide at a later time to allow Remote Client access to your Disc Publisher.

Additionally, it is recommended that **File and Printer Sharing** be allowed in the Firewall. You may experience connection difficulties if this firewall setting is not set to allow access.

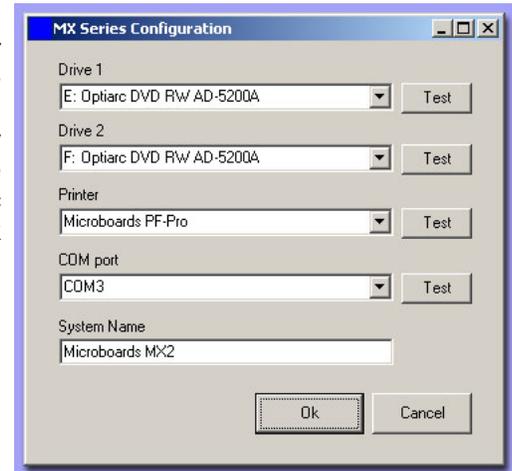
Allow your PC to reboot as the last step in the installation process. If you do not reboot your PC, PrintWrite 2 will not function correctly.

## Local Client Hardware Configuration

After your PC has rebooted, the Publisher Configuration window will appear. In most cases the Disc Publisher drive(s), printer, and COM port will have been auto-detected and will be entered into the configuration. Verify that the hardware has been correctly selected by clicking the **Test** button next to each selection. If the drive opens and closes, the printer runs, and the disc elevator lifts and drops, the selections are correct. Click the **OK** button.

If the Test buttons do not operate the correct hardware component (example: a DVD drive other than in the Disc Publisher responds to the test) select the correct hardware from the list and retest before clicking **OK**.

***The Configuration Window will appear even if PrintWrite 2 is not launched.***



## Allowing Remote Client Access

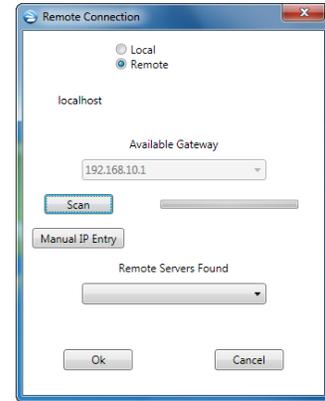
Before any Remote Clients can connect to your Disc Publisher, you will need to Share the Publisher. To do so, launch PrintWrite 2 and select **Administrator** from the **Utilities** menu. Place a check in the **Share Publisher** checkbox and click **OK**. Please refer to **Administrator Utilities** on page 19 for more information and options available to Sharing the Publisher. See also **Requirements to Allow Remote Client Connection** on page 36.

If you will not be allowing Remote Client access to your Disc Publisher, you will not need to make any changes to the Share Publisher setting.

# Remote Client Installation and Configuration

To install and configure PrintWrite 2 for Remote Client use, where the PC on which you are installing PrintWrite 2 is not connected directly to the Disc Publisher, select **PrintWrite 2 for Remote Client** from the **Product for Installation** list. This will install PrintWrite 2 and SureThing Disc Labeler only, as the hardware installation is not needed to operate as a Remote Client.

After the installation is complete and your PC has been rebooted, launch PrintWrite 2 using the icon on the desktop. The Remote Connection selection window will open, as shown to the right.



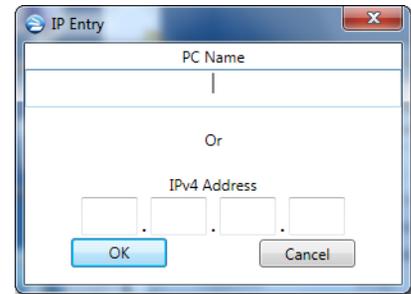
Click the **Scan** button to automatically scan within the same network Gateway for available Disc Publishers on your network that can be accessed by a PrintWrite 2 Remote Client. This will return the PC names or IP Addresses of any PC on your network that is currently running the PrintWrite 2 remote services as a Local Client. The PrintWrite 2 Publisher services do not run on Remote Client PCs, so those PCs will not be detected by the scan.

**NOTE:** The scan process may disconnect or interfere with other applications running on your PC that require continual network communication with a specific host server. It is recommended that you perform the Remote Connection scan with no other applications running.

The Scan process will take a few minutes, with the progress of the scan being displayed in the progress bar to the right of the button. Once complete, the **Remote Servers Found** drop-down list will be populated with the names or IP Addresses of the Local Client PCs found on your network. Select the correct Local Client PC name or IP Address and click the **OK** button.

Alternately, you can manually enter in the Local Client PC name or IP address without using the scan. Click the **Manual IP Entry** button and enter in either the **PC Name** or the **IP Address** of the Local Client PC that you want to use as the PrintWrite 2 Remote Server.

**NOTE:** If your network domain configuration uses DHCP to assign dynamic IP Addresses to the PCs on your domain, it is recommended that you enter in the **PC Name** rather than the **IP Address** as the Remote Client will no longer have access to the Disc Publisher if the Local Client IP Address is changed by your domain server.



Click the **OK** button when you have entered in either the **PC Name** or **IP Address** of the PC that is configured as the Local Client. This will return you to the Remote Connection window with the manual entry you made in **Remote Servers Found**. Click **OK** to complete the connection process.

After you have selected the correct Local Client PC, PrintWrite 2 will connect your PC as a Remote Client to the Disc Publisher. It may take a minute or two for the connection to be completed. Once the connection is made, an image of the Disc Publisher will appear in the Publisher Information button on the top right of the main PrintWrite 2 window.



# PrintWrite 2 and Non-Administrator Users

You can configure the PC to allow non-administrator users to run PrintWrite 2 on your **Local Client** PC. To perform these steps, you will need to be logged on to your computer as an administrator.

## Sharing the PrintWrite 2 Working Directories

For non-administrator users to run PrintWrite 2 on your PC as Local Clients, the two working directories for the application must be shared.

One of the directories, **C:\MBSDK Data**, will not exist until PrintWrite 2 is launched for the first time.

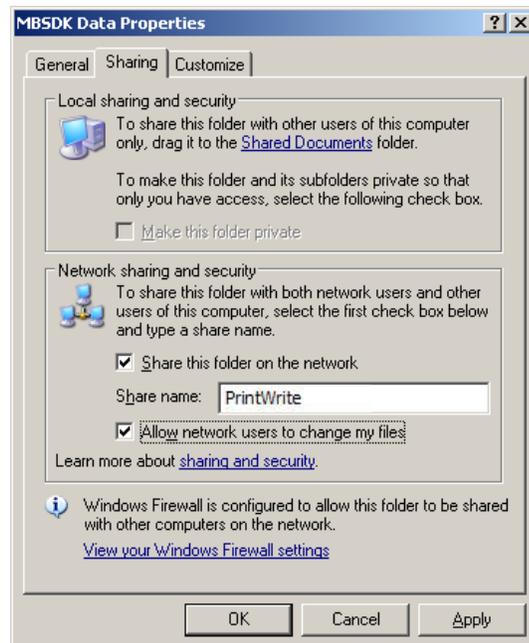
Depending on the security level set on your PC, you may also need to share directories from which users are selecting files or print images.

Sharing the directories is not necessary to allow Remote Clients to connect to your Disc Publisher.

### Windows XP

The first directory that must be shared is the directory in which PrintWrite 2 was installed. By default, that directory is **C:\Program Files\Microboards\PrintWrite 2**. If you changed the installation location, you will need to share the directory to which you installed PrintWrite 2.

1. To share the directory, open Windows Explorer and right-click the PrintWrite 2 installation directory.
2. Select **Sharing and Security** from the drop-down menu.
3. Place a check in the **Share this folder on the network** and **Allow network users to change my files** controls, as shown to the right.
4. Click **OK** to save the sharing changes.



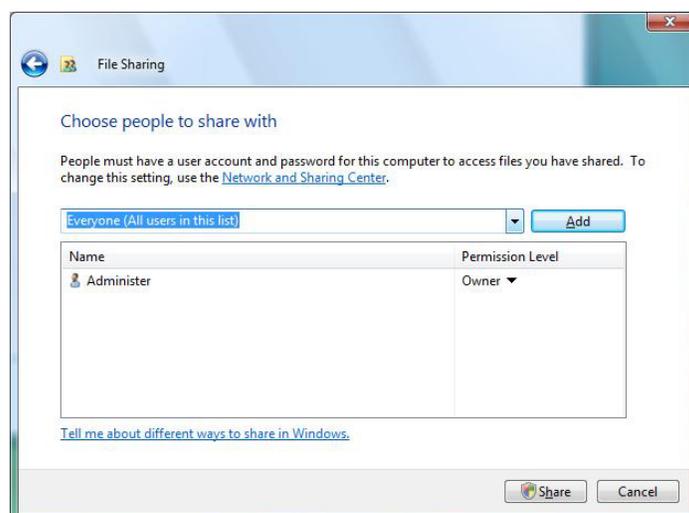
Use the same process described above to share the working directory for PrintWrite 2, which is the **C:\MBSDK Data** directory.

### Windows Vista and Windows 7

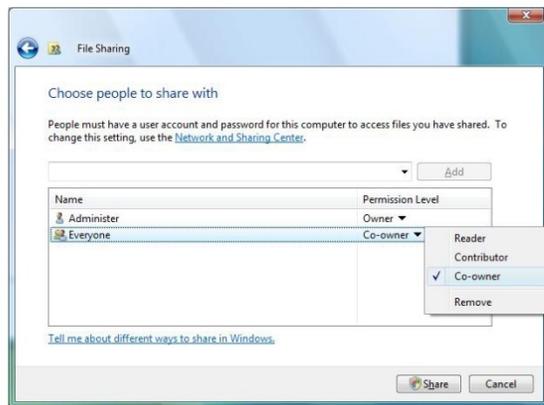
To allow sharing in Windows Vista or Windows 7, you must share the **C:\MBSDK Data** and the **C:\Program Files\Microboards\PrintWrite 2** directory, as in Windows XP. The steps are a little different, however, if Windows UAC is on.

#### MBSDK Data directory

1. To share the **C:\MBSDK Data** directory, browse in Windows Explorer to the C: drive.
2. Right-click the **C:\MBSDK Data** directory. Select **Sharing...** from the menu that appears.
3. To share with all users, select **Everyone (All users in this list)** from the drop-down list, then click the Add button.



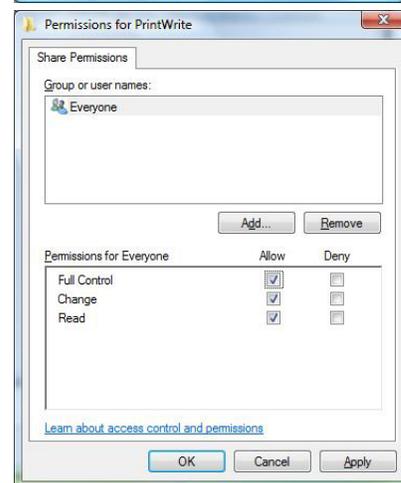
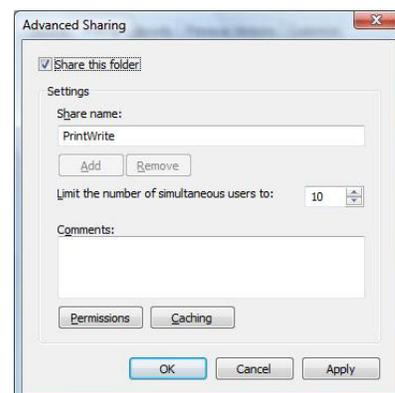
- To share with specific users only, select the user name from the list and click **Add**. If you want to add multiple users, you will have to select each user individually.
- All users added will by default have only **Reader** access to the directory. To change the access level, click the **Permission Level** entry for the user you just added, and select **Co-owner**.
- Click the **Share** button to complete the process for sharing the **C:\MBSDK Data** directory.



### PrintWrite 2 directory

Sharing the PrintWrite 2 directory requires a slightly different process from the MBSDK Data directory.

- Start by browsing in Windows Explorer to the location to which you installed PrintWrite 2. By default, this location is **C:\Program Files\Microboards\PrintWrite 2**.
- Right click the directory and select **Sharing...** from the menu.
- Click the **Advanced Sharing** button in the window that appears.
- In the next window that appears (shown to the right), place a check in the **Share this folder** setting.
- Click the **Permissions** button to set the access level for all users.
- Place a check in the **Full Control** permission in the **Allow** column. This will fill in the **Change** permission as well.
- Click **OK** to complete the sharing process. Click **OK** in all other windows that are open.



# PrintWrite 2 and Firewalls

In order to allow Remote Clients access to the Disc Publisher connected to the Local Client PC, the Firewall settings on the Local Client PC may need to be modified.

Always discuss any Firewall setting changes with your Network Administrator.

## Windows Firewall

If you have the Windows Firewall set to **Off** on the Local Client PC, you will not need to make any changes to the security settings.

The easiest way to add the applications to the Windows Firewall program exceptions list is to simply launch PrintWrite 2 when logged in as an administrator. If your PC has Windows Firewall active, you will see the window to the right. Clicking the **Unblock** or **Allow Access** button will add **Server Manager** to the exceptions list, allowing this necessary PrintWrite 2 process to run.

In addition to the Server Manager, two ports will need to be opened to allow communication between a Publisher installed on your local PC and any remote PC you will be allowing to access your Publisher.

If you installed your Publisher using the Installation Disc provided by Microboards, one of the questions you are asked during the installation is if you want to open **Ports 10450** and **10451**. If you answered **Yes**, those ports were added to the Exceptions list and opened, and you will not need to do anything further.

If you answered that you did not want those ports opened, the ports were added to the exceptions list but were not opened. You will need to open the Windows Firewall interface and manually open the two ports if you want to be able to have other PCs connect to the Publisher on your PC.

### For Windows XP and Vista:

1. Select Windows Firewall from the Control Panel
2. Click the Exceptions tab.
3. Scroll down the list until you see **PrintWrite Port 10450** and **PrintWrite Port 10451**. These exceptions must be checked for Remote Clients to access the Disc Publisher.
4. Click the **OK** button after checking these two exceptions.

### For Windows 7:

1. Open the Windows Firewall in the Control Panel.
2. Click the **Advanced Settings** link in the left column.
3. In the next window that opens, click the **Inbound Rules** link and locate the entry **PrintWrite Inbound**.
4. Right-click **PrintWrite Inbound** and select **Enable Rule** from the options that appear.



5. Click the **Outbound Rules** link and locate the entry **PrintWrite Outbound**. Right-click **PrintWrite Outbound** and select **Enable Rule** from the options that appear.
6. Close the Windows Firewall windows.
7. In addition, **File and Print Sharing** should be allowed to avoid possible connection issues that can be seen if File and Print Sharing is blocked by the Firewall.

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## Non-Windows Firewall Applications

If you are using a Firewall application other than Windows Firewall, you may need to manually add the application **ServerManager.exe** to the firewall exceptions list after installing PrintWrite 2. ServerManager.exe will be located in the *Program Files\Microboards\PrintWrite 2* directory.

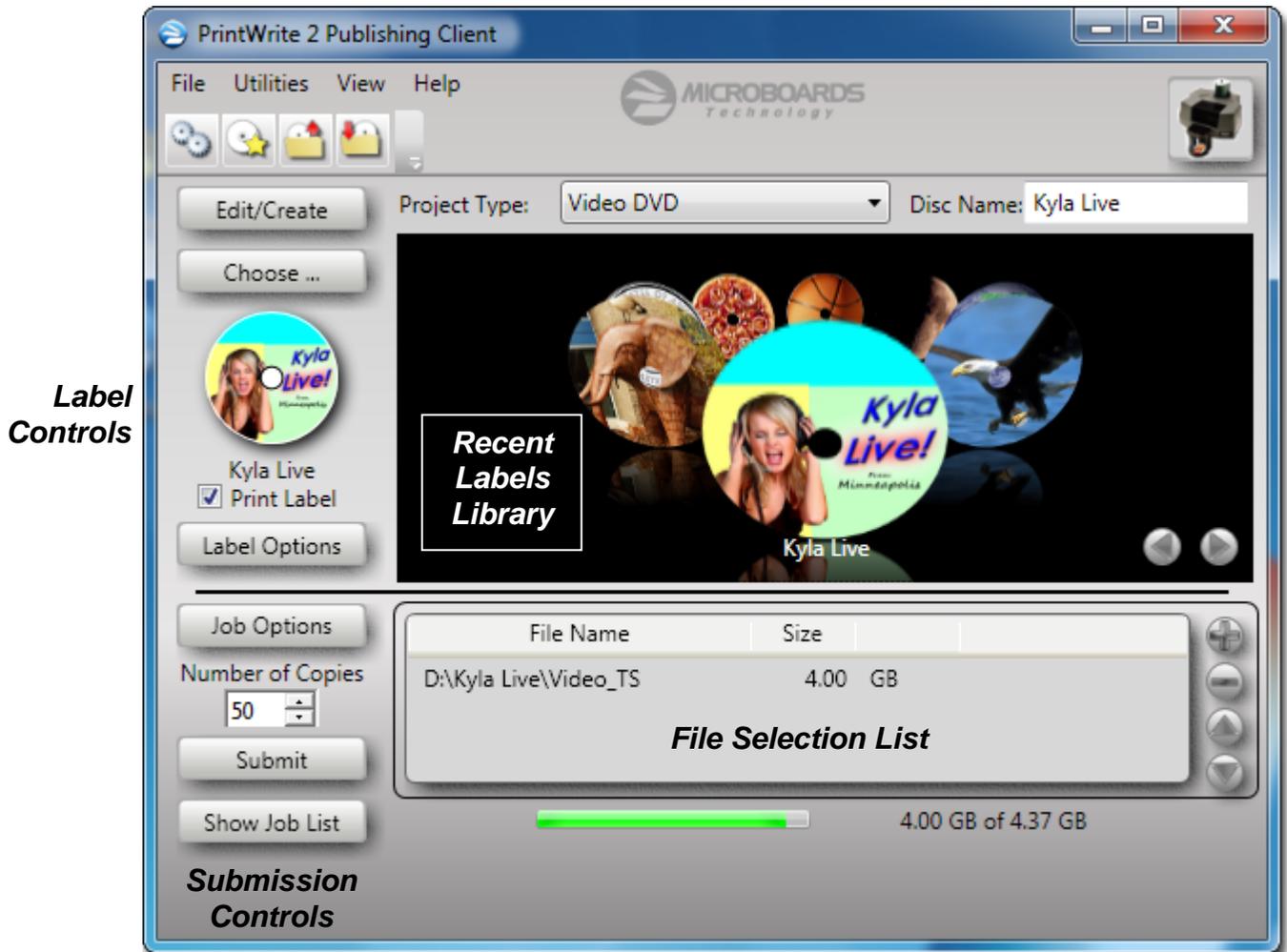
If you plan on allowing other PCs to send publishing jobs remotely to your Publisher, you will also need to add and open Ports **10450** and **10451** as **TCP ports** to your firewall application exceptions list. Additionally, **File and Printer Sharing** should be allowed to avoid possible connection issues.

Please consult your firewall application documentation or your Network Administrator on how to make these necessary changes to the Firewall configuration.

# PrintWrite 2 Menus and Toolbar

Double-click the desktop icon that was created during installation of the software. If the Hardware Configuration screen appears, verify the configuration, enter in the name you would like to use for the Disc Publisher, and click **OK**, as described on Page 9. This will only occur if you are configured as a Local Client, with the Disc Publisher connected directly to your PC.

The main PrintWrite 2 window includes all of the controls necessary to create, submit, and save Disc Publishing projects. The interface includes various Label Controls that affect the label selection, a Recent Labels Library that shows the last 20 labels used in PrintWrite 2 projects, a File Selection List with controls to manipulate the list, and the Project Submission controls.



The Toolbar and Menu functions will be discussed first. Then steps that are common to multiple Project Types will be covered, followed by specifics for each individual Project Type.

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## The Toolbar

There are 5 functions that can be accessed using the Toolbar at the top of the main window, just below the menus.



### Job Options

Please see **Common Project Steps: Job Options**, page 23.



### New Project

Clicking this button will clear out the project you are currently designing. This will not affect any jobs already submitted. This function is also available in the **File** menu.



### Open Project

You can click this button to open any previously-saved project from PrintWrite 2. Opening a saved project will replace anything you already have designed in the main window. This function is also available in the **File** menu.



### Save Project

Click this button to save the project currently showing in the main window. This function is also available in the **File** menu.

Once a project has been saved, you can re-open it by selecting **Open Project** in the **File** menu, or by clicking the **Open** button in the Toolbar. Either of these methods will display the project design to give you the opportunity to review the project before submitting the job.

### Publisher Info



Click the button showing the Publisher model you are currently connected to, located on the far right side of the toolbar, to open the Publisher Information drawer. The drawer will open to the right of the main window, and will close the Job Options drawer if open.

The Publisher Status section shows the name of the publisher that you are currently connected to, as well as the State and specified Media Type. If you are accessing a Publisher remotely, the amount of space available on the server hard drive will be displayed as well as the connection type and the name or IP address of the server.

For the MX Disc Publisher models, each ink color has an individual cartridge. All four ink levels will be displayed.

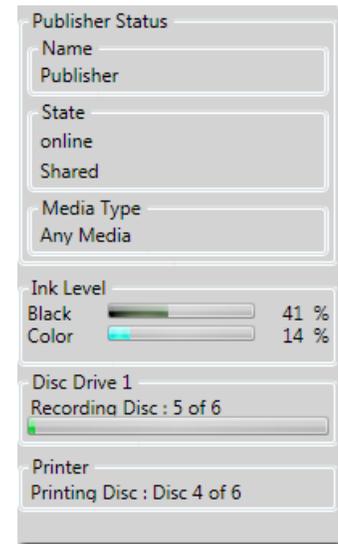
For the CX Disc Publisher model, the black and color ink cartridge levels will be shown separately, as shown to the right.

For the G3 Disc Publisher, which only has a color composite ink cartridge, the level will show the percentage remaining of the single cartridge.

The composite color cartridge ink level for the CX and G3 Disc Publishers will be determined by which of the three colors has the least amount of ink remaining. If the composite cartridge is almost empty of yellow, for instance, the ink level displayed will be that of the yellow ink. Because of this, your composite cartridge may not feel empty, by weight, when the ink level is reporting as empty.

Color composite ink cartridges cannot continue to be run if any of the three colors of ink are empty.

If you are connected to a Disc Publisher as a Remote Client, the amount of available hard drive space on the Local Client PC will also be displayed.



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## The File Menu

The File menu has four options: **New**, which will clear the current project settings to begin a new project; **Open**, which will allow you to select a saved PrintWrite 2 project; **Save**, which will save the setting for the project currently showing, and **Exit**, which will close PrintWrite 2.

**New**, **Open**, and **Save** operate the same as using the Toolbar items of the same names described above.

## The Utilities Menu

The Utilities menu includes the **Remoting Utilities**, **Publisher Utilities**, **Administrator**, **Remote File Location**, and **PrintWrite Utilities** menu items.

Some of the menu items in the Utilities menu and some of the individual settings within the Utilities menu items will only be available if you are using a Disc Publisher connected directly to your PC.

### Remoting Utilities

The **Remoting Utilities** menu item allows you to connect to a Microboards Disc Publisher that is running on a different PC.

#### Local Publishing

If your Disc Publisher is connected directly to the PC you are using, all you will need to do is set the Connection to **Local** and click the **OK** button.

If you installed your Disc Publisher, drivers, and software using the MX, CX-1, or G3 Disc Publisher Installation, the Connection will by default be set to **Local**. You will not need to make a change to this setting.

When the Remote Connection is set to Local, the **Scan** and **Manual IP Entry** buttons as well as the **Remote Servers Found** drop-down list will not be available.

#### Remote Publishing

If your Disc Publisher is connected directly to a PC other than the one you are using, you will need to set the Connection to **Remote**.

If you installed PrintWrite 2 for Remote Network Client, the Connection will by default be set to **Remote**. You will not need to make a change to this setting, but you will need to select the **Remote Server** before you will be able to use the Disc Publisher on another PC.

#### Scan

Click the **Scan** button to search the listed **Available Gateway** for active PrintWrite 2 Local Client PCs. The scan may take up to a few minutes to complete; the progress bar to the right of the button will show how far the scan has gone.

Once the scan is complete, all Local Client PCs currently running the PrintWrite Server Services will appear in the Remote Servers Found drop-down list.

Please note that all of the Local Client PCs listed may not have the Share Publisher setting in the Administrator Utilities turned on to allow Remote Client connectivity.

#### Manual IP Entry

If you know the IP address or name of the PC to which you want to connect, you can use this button to access a dialog that will allow you to specify the PC you want to connect to without running the Scan.

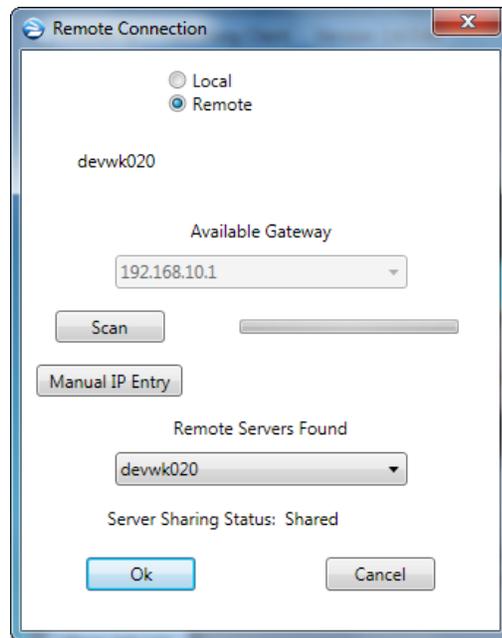
After entering in either the **PC Name** or the **IP Address** (you do not need to enter both), click the **OK** button. The information you entered will appear in the **Remote Servers Found** drop-down list.

**NOTE:** Once you have scanned or entered a PC in manually, you will not need to perform either process again unless there is a change in the location of the publishers on your network, or if the IP addresses of the Publisher servers change.

#### Remote Servers Found

After either scanning the network or entering in the PC name manually, select the PC to which you want to connect for remote disc publishing.

Click the **OK** button when your Connection settings are correct.



The **Publisher Info** button on the right of the main window will change to represent the Disc Publisher model that is available for remote disc publishing. Click the button to view the Publisher status drawer.

There may be a short time period during which the Publisher Info State will show as **Changing Publisher** or **Connecting**. It may take a few minutes for the connection process to complete. If the connection is not completed within a few minutes, there may be a setting incorrect on the Local Client PC or the Disc Publisher itself may not be ready to publish.

While you can change from one remote publisher to another, there will be times in which you will be unable to do so and the controls will not be visible on the Remoting Utilities dialog. An example of when you will not be able to change publishers is when files are being transferred from your PC to the Remote Server after submitting a project.

## Publisher Utilities

The **Publisher Utilities** menu item gives you access to a number of utilities. The utilities that are available will depend on whether the Connection setting is **Local** or **Remote**.

### Stop/Start Server Manager (Local Client only)

Click this button if you need to stop the local Server Manager. Note that doing so will cause any currently active jobs to fail.

Once you have stopped the Server Manager, some of the buttons will no longer be available.

### Offline/Online (Local Client only)

Click this button if you need to take the Disc Publisher Offline for any reason. Doing so will cause any active job to fail.

When the Publisher is in an Offline state, the Diagnostics utility will not be available.

### Diagnostics (Local Client only)

Click this button if you want to run a configuration diagnostics on the publisher.

This will cause any jobs currently active to fail.

### Restart Services

Click this button to stop and restart the PrintWrite Services. Any of the services that were already stopped will be restarted.

Restarting the services will cause any jobs that are currently active to fail.

Note that if you are accessing a remote Disc Publisher, the number of PrintWrite Services listed will be fewer than if you are running your Disc Publisher locally.

### Stop Services

Click this button to stop the PrintWrite Services that are currently running. The services affected will depend on whether the Connection is set to **Local** or **Remote**.

Stopping the services will cause any jobs currently active to fail.

### Purge Print Spooler

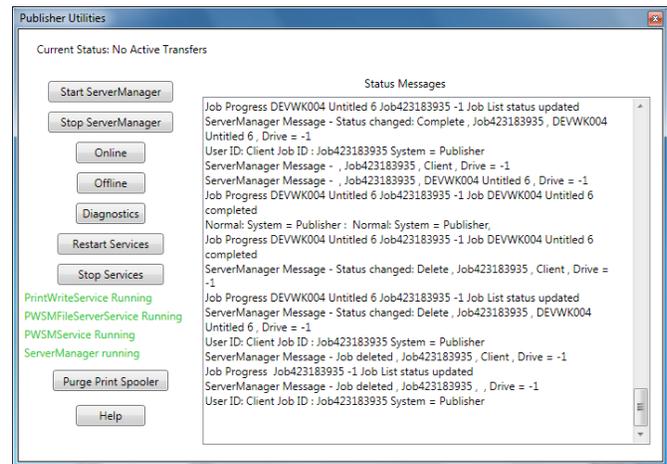
Click this button if you need to clear all print jobs from the Windows Print Spooler. This will affect all currently printing jobs on all printers on the PC.

### Help

Click this button to open the help page specific to the Publisher Utilities.

### Status Messages

The Status Messages list on the right will show the most recent activity on the Publisher. This list will appear regardless of the Connection setting.



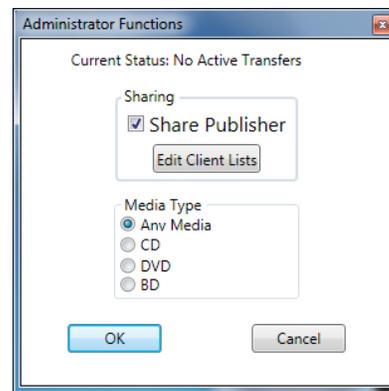
## Administrator Utilities

The **Administrator** Utilities menu item is only available when you are performing Local Disc Publishing. The settings in this menu option affect whether or not remote users can connect to the local Disc Publisher, as well as assigning a default media type.

### Share Publisher

Check this box to allow Remote Publisher Clients to access the Local Disc Publisher. If the box is not checked, Remote users cannot submit jobs using PrintWrite 2 to the Publisher connected to your PC.

Changes to this setting will trigger a notification message to all users connected to your PC running the PrintWrite 2 Monitor.



### Edit Client Lists

Use the **Edit Client Lists** button if you want to specify which computers can access the Local Disc Publisher or if you want to specifically restrict some PCs from connecting to the publisher.

The Client List has two sections, one for specifying those PC names or IP Addresses that are **Allowed** to connect and those that are **Blocked** from connecting.

If you leave both the **Allowed** and **Blocked** lists empty, there will be no restrictions on which PCs on your network can connect to your Disc Publisher when Sharing is enabled.

If you add PC names or IP addresses only to the **Allowed** list, PrintWrite 2 will only allow those PCs to connect to the Publisher. By using only the **Allowed** list, you will not need to specifically block other PCs.

Alternately, if you add PC names or IP addresses only to the **Blocked** list, any PC on your network except for those specified will be able to connect to your Disc Publisher. By adding entries only to the **Blocked** list, you are specifying only those PCs that are not allowed access to the Publisher.

If you have entries in both the **Allowed** and **Blocked** lists, only those PCs in the **Allowed** list will have access to the Publisher unless the PC name or IP address is also in the **Blocked** list. For a PC to be able to access the Publisher, the name or IP address can only be in the **Allowed** list.

The following chart illustrates these settings:

	<b>Allowed</b>	<b>Blocked</b>	<b>Result</b>
Example 1	Empty	Empty	All PCs on network have access
Example 2	<b>PC_Graphic</b>	Empty	Only <b>PC_Graphic</b> has access
Example 3	Empty	<b>PC_Graphic</b>	All PCs have access except <b>PC_Graphic</b>
Example 4	<b>PC_Graphic</b> <b>PC_Video</b>	<b>PC_Graphic</b>	Only <b>PC_Video</b> has access <b>PC_Graphic</b> does not have access No other PCs have access

Use the **Add Allowed** or **Add Blocked** buttons to add a PC name or IP address to the **Allowed** or **Blocked** lists. To remove a PC name or IP address from the Lists, highlight the entry you want to remove and click either the **Remove Allowed** or **Remove Blocked** button, depending on the list you are changing.

### Media Type

This setting allows you to specify the type of media that is currently loaded into your Disc Publisher, allowing Remote Users to know what type of projects they can submit.

If you have a specific media type selected, any user connected to the Publisher will be notified if they select a project type or disc image media type that does not match the Media Type specified here. Notification will also occur when the project is submitted.

Users will have the option of submitting the project anyway, allowing for a quick, temporary change of media loaded in the Publisher without alerting all users that the media type has changed. However, submitted jobs that are dependent on the media type actually loaded into the Publisher will fail if the media is not compatible with the job submitted; for instance, submitting a Data CD job to a Publisher loaded with DVD media will result in a failure.

Please note that setting the Media Type to **BD** will not give your publisher the ability to burn to Blu-Ray media unless you purchased a Publisher with that capability.

Select **Any Media** if you do not want to specify the media type.

Changes to this setting will cause the PrintWrite 2 Monitor to deliver a pop-up notification message to all connected users.

### **OK and Cancel**

Click the **OK** button to save any changes and return to the main PrintWrite 2 window. Click **Cancel** if you do not wish to save any changes you may have made.

## **Transfer File Location**

During Disc Publishing from a Remote Client PC, data and print image files are transferred onto the Local Client PC hard drive. By default, the files are transferred to C:\Temp Data Files and print images are transferred to C:\Temp Print Files. Although the files are deleted from the server hard drive once a job completes, files from multiple submitted projects can reside on the hard drive at any given time, making hard drive space on the server a concern.

If you do run low on space on the C: drive of the server, use the Transfer File Location settings to change the location of these temporary files to another drive. The amount of available space necessary will depend on the types of projects that are submitted and the number of projects that are submitted in close succession.

The locations for both the transferred data and print files should be dedicated for the transfer of files from Remote Clients to the Local Client PC only as maintenance on the contents of these 2 directories will regularly occur and will remove any files not in use by PrintWrite 2.

These file locations are only used if Remote Clients are being allowed to operate your Disc Publisher. If you are operating your Disc Publisher from a Local Client configuration only, these settings will not be used.

## **View Log Files**

The View Log Files function allows you to review the most current 1000 lines of each of the log files generated by PrintWrite 2. This function will only create a snapshot of the log files at the time they are selected and is not intended to be used to monitor the ongoing processes live.

For a Local Client, there will be seven log files available for viewing. A Remote Client will have only 3 log files available, as the remaining four are used for local publishing only.

### **PrintWrite 2 Email Utility**

As part of the PrintWrite 2 installation, the ***PrintWrite 2 Email Utility*** is installed on your PC. This utility, which can be accessed through the Programs menu using the Start button, will automatically compress and email the current PrintWrite 2 log files to a Microboards Technical Support email addresses, which can be selected based on your location.

The available options are to email the files to the US Tech Support, UK/European Tech Support, or Japan/Asian Tech Support. Enter in your email address so a response can be sent to you, along with comments on the specifics of the problem you are seeing.

## **PrintWrite**

The PrintWrite Utilities menu includes a number of functions that are related to the configuration and operation of PrintWrite 2.

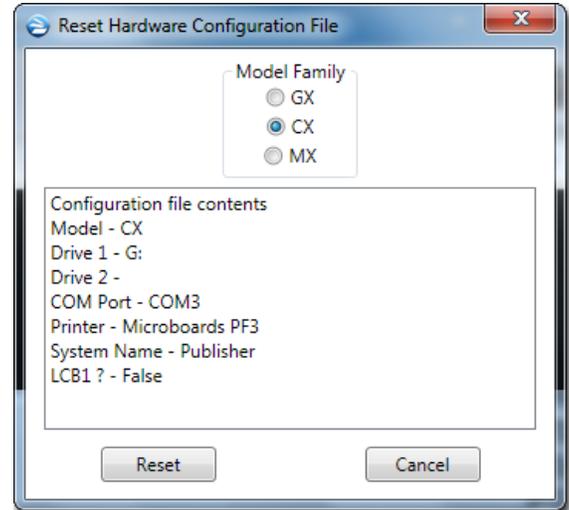
### **Reset Hardware Configuration (*applies to Local Client only*)**

If the hardware configuration on your Local Client PC has changed – for instance, you are changing the model of Disc Publisher that is connected to the Local Client PC – you will need to use this utility to perform a reset of the hardware configuration.

After selecting **Reset Hardware Configuration** from the PrintWrite menu, select the Disc Publisher **Model Family** to which you want to reset the configuration and click the **Reset** button.

Once done, shut down PrintWrite 2 and reboot your PC. After the PC reboots and the PrintWrite Publisher Services launch, the Hardware Configuration window will appear. Please refer to **Local Client Installation and Configuration : Hardware Configuration** on page 9 for more information on selecting the drives, printer, and COM port.

***You must reboot your PC after resetting the hardware configuration!***



If there are any Remote Client PCs connected to the Local Client PC on which the hardware configuration changes, the Publisher Information will show the Disc Publisher as **Unavailable**, and the Publisher Info button will change to a red background. Once the new Hardware Configuration is initialized, the Publisher Info on the Remote Clients will show that the Publisher is ready.

### Enable Submit

The Submit button can be hidden or disabled in some circumstances, such as if the Disc Publisher is offline or during Batch Copy. This is intended to keep job submission failures to a minimum.

If the button is not available, use this option to show the Submit button again. If the **Enable Submit** option is not available, the Publisher is in a state that will not allow submission of projects.

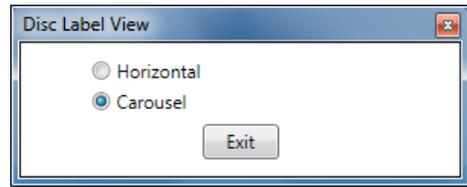
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## View Menu

The View menu options allow you to change the appearance and behavior of the Recent Labels Library in the main window.

### Disc Label View

The Recent Label View option allows you to switch between the 2 available formats for the Recent Label Library. The available formats are **Horizontal** and **Carousel**, with **Carousel** being the default view.



### Auto Open Publisher Drawer

Toggle this setting **On** or **Off** to control whether or not the Publisher Drawer opens automatically when PrintWrite 2 is launched.

### Auto Open Job List Drawer

Toggle this setting **On** or **Off** to control whether or not the Job List Drawer opens automatically when a project is submitted.

---

## Help Menu

The Help menu links you to the Help files that are included with the PrintWrite 2 installation.

## PrintWrite Monitor

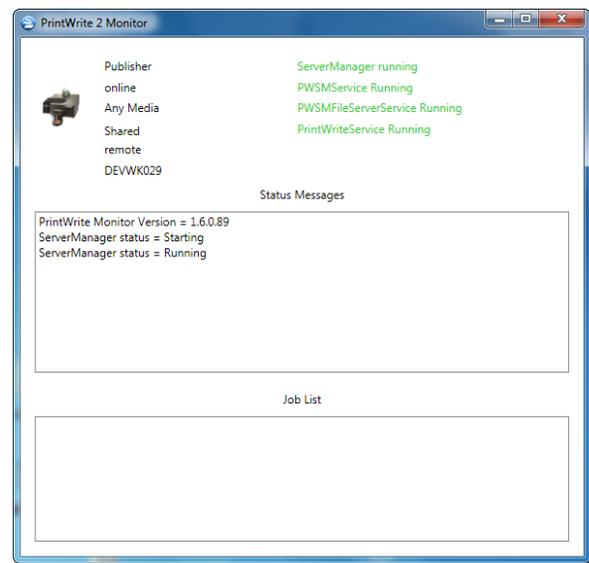
The PrintWrite Monitor application, which will appear as an icon in the tooltray, can be used to check the status of the PrintWrite 2 services.



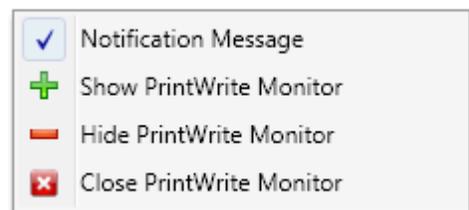
The Monitor is an independent application that can provide you with information about the Disc Publisher state, PrintWrite 2 Service status, and recent information on what operations PrintWrite 2 has been performing.

The Monitor also provides pop-up notifications on changes of Publisher status regardless of what PrintWrite 2 may be doing.

To open the Monitor, either double-click the icon in the tooltray or give the Monitor icon a right-click and select **Show PrintWrite Monitor** from the menu that appears.



In addition to the right-click **Show Monitor** selection, you can toggle the notifications **On** or **Off**, **Hide** the Monitor, or **Close** the Monitor altogether. Closing the Monitor window using the X button in the upper right corner will not shut down the monitor, only close the visible window.



# Creating Projects

## Common Project Steps

While the steps in building each project may differ from project type to project type, there are many steps that are the same from project to project. Those steps are detailed here, with references back to this section when describing the steps for each specific project type.

### Selecting the Project Type

Use the Project Type drop-down at the top of the PrintWrite 2 window to select the correct project that you want to create. Please note that some of the project types listed will only be available if the Disc Publisher you are using is connected directly to your PC. Everything you will need to create that project type will appear on the screen.

### Setting the Disc Name

Simply enter the name you want to assign to the disc in the **Disc Name** field. This name will appear in Windows Explorer when the disc is inserted into an optical drive.

### Adding Files to Record

In almost every project type, you will need to select the files you want to record. Project types that include selecting the files to record and the files that can be selected are:

Project Type	Selectable items
Audio CD	.wav, .wma, and .mp3 files
Data Disc, all media formats	Any file or folder
Video Disc	Authored Video Directory (typically, Video_TS)
Burn Image	.di or .iso files only

#### Adding Files

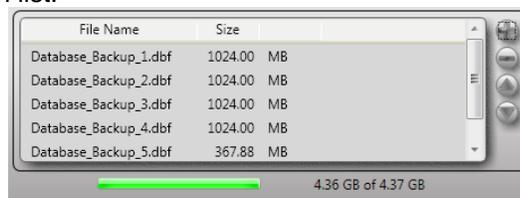
Add files to any files selection list by clicking the **Add** button. Use the file browser to navigate to your hard drive and select your files or folders.

#### Removing Files

Once the file selection has been made, the **Remove** button is enabled. This button will remove the highlighted item or items in the file selection list.

#### Drag-and-Drop, Copy-and-Paste Files

You can add files by using the Drag-and-Drop feature. Simply highlight files or folders in Windows Explorer and drag their icons into the file selection list. You can also Copy and Paste files from Windows Explorer into the file selection list.



If there are more files in the list than can be shown on the main window, vertical scroll bars will appear on the right side of the file list.

### Selecting a Label to Print

With the exception of Stream projects, you can select the label you want to print either by dragging the label's image file into the **Recent Label Library** or by clicking the **Choose...** button and selecting the label.

Additionally, you can also select a label from the **Recent Labels** library, which will store the last 20 labels that you have used for previous projects. To select a label from the library, scroll through the label images until the one you want is in the front and double-click the image.

#### Supported Image Formats

PrintWrite 2 requires the use of label files created by the SureThing Disc Labeler software, which is included with the PrintWrite 2 installation. Label files that can be selected will have a **.std** file extension.

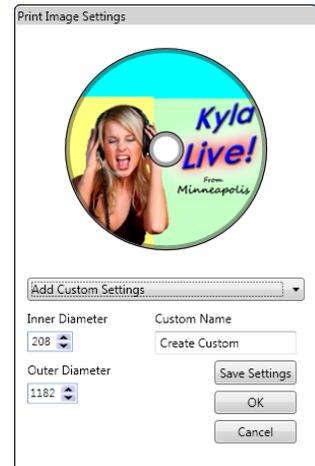


## Label Settings

Different types of media have different Inner and Outer diameters for the printable surface. You can select from a number of pre-defined printable media brands and types, or define your own custom types. This allows you to quickly change media types between projects. Click the **Label Options** button to make any necessary changes.

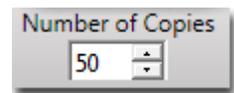
To define your own custom media dimensions, select **Add Custom Settings** from the Disc Type list. Diameters are given in 1/10<sup>th</sup> millimeter increments.

To save your settings as a new defined media type, enter in a name under which to save the settings in the **Custom Name** and click the **Save Setting** button. Your media type is now added to the Printable Media Type list. You do not need to save custom settings to use them, but custom settings that aren't saved will only be available until you select a different diameter setting or you close PrintWrite 2.



## Selecting the Number of Discs

If you will be creating more than one disc from a project, adjust the entry in the **Number of Copies** field accordingly.



## Job Options

Several of the project types have Job Options that can be modified. The default settings will be applicable to virtually all needs; unless you have a specific reason to do so, there is no need to change any of the settings.

To view the Job Options, click the **Job Options** button in the main window or the **Job Options** button in the toolbar. The Job Options window will appear over the main PrintWrite 2 window.

If you need to change any of these settings, it must be done before the job is submitted. Changes to these settings will not affect jobs already in the Job List.

Not all settings will apply to all project types. Job Options that cannot be modified for a given project will not be visible.

The Print Only Project type does not include any modifiable Job Options.

### Recording Mode *(Applies to Data Disc projects only)*

Available options are **Open** and **Closed**. By default, **Closed** is the selected setting. By selecting **Open**, the recorded disc can later have data appended to it while a **Closed** disc can not.

### Recording Type *(Applies to Data Disc projects only)*

Available options are **Disc and Once** and **Track at Once**. The default setting for each project type is always recommended.

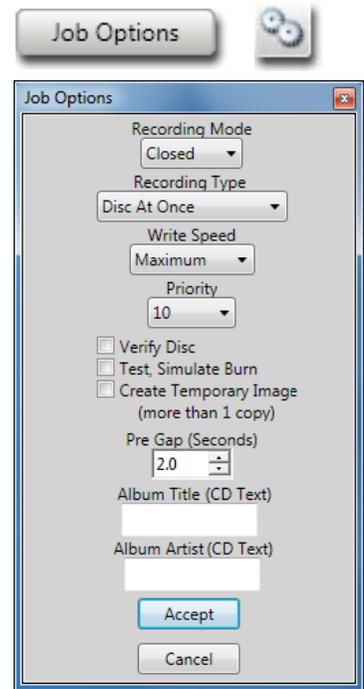
### Write Speed *(All burn projects)*

Available options are **Maximum**, **Medium**, and **Minimum**. The default setting is **Maximum**.

The exact burn speeds of each will depend on the drive model and type of media used for the project.

### Verify Disc *(Data Discs, DVD Video, and Burn Image projects)*

Placing a check in the **Verify Disc** option will read and compare the copies to the master disc or source files as each disc completes the burn process. Selecting this option will increase the amount of time it takes to process each disc. You cannot combine **Test Burn** with **Verify Disc**.



**Test Simulate Burn** *(All burn projects)*

Use this option if you want to test the functionality without burning to a disc. This setting will not apply when burning a DVD Video ISO image protected by VideoWrite.

Some media, such as DVD+R, cannot be used in Simulate mode. Using this option will result in rejected discs and a failed job.

**Create Temporary Image** *(All burn projects except Batch)*

This option allows you to create a temporary image from which the copying will occur rather than burning directly from your original files. While this will add to the amount of time it takes to complete the project, it does reduce the possibility of burn failure.

By default, this option is unchecked for all applicable projects except for the Copy Disc project. For the Copy Disc project, this option will be checked and is the same as **Create Temporary Disc Image** setting below the Source Drive information (page 26).

***This option will be checked and cannot be changed for any applicable burn project using a 2-drive Disc Publisher in which both drives are enabled and the number of discs being burned in the project is greater than one.***

**PreGap, Album Title, Album Artist** *(Audio CD projects only)*

These 3 settings are only available in Audio CD projects.

**Project Types and Available Job Options**

	Copy Disc	Audio CD	Data Disc	Video Disc	Print Only	Batch Job	Burn Image	Create Image	Erase Disc
Recording Mode		✓	✓	✓					
Recording Type		✓	✓	✓					
Write Speed	✓	✓	✓	✓		✓	✓		
Priority	✓	✓	✓	✓	✓	✓	✓	✓	✓
Verify Disc	✓		✓	✓		✓	✓		
Test, Simulate Burn	✓	✓	✓	✓		✓	✓		
Create Temp Image Files	✓	✓	✓	✓					
Pre-Gap		✓							
Album Title		✓							
Album Artist		✓							

**Submitting a Job**

Once you have the correct project type and have completed building the project, load the correct media type for your project and click the **Submit Job** button.

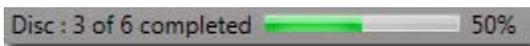


Always load your media prior to clicking the **Submit Job** button, as the publisher may begin to load immediately.

If you are configured as a Local Client, with the Disc Publisher connected directly to your PC, the job will appear in the Job List.

If you are configured as a Remote Client, the files you selected in the project will be transferred to the PC connected directly to the Disc Publisher, with the transfer progress being displayed. Once the transfer is complete, the job will appear in the Job List.

The progress of the currently active job will be displayed at the bottom of the main window.



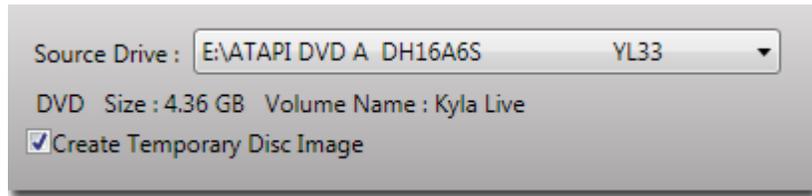
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## Copy Disc (Local Client Only)

### Master Selection

#### Source Drive

Use the **Source Drive** list to select the drive in which you have your master disc from the list of available drives. The information about the master below the drive list will appear once a drive has been chosen.



#### Create Temporary Disc Image

Placing a check in this box will cause PrintWrite 2 to extract a disc image from the master disc to use for burning. You should use this setting if you are making multiple copies from one disc; it may add the time to create the disc image to your project, but it will eliminate any failed burns caused by read issues.

You cannot mix master and blank disc types; for instance, you cannot burn to a DVD from a CD master.

### Select a Label to Print

Use the Recent Labels Library or **Choose** button to select the print image you would like to use for your copies of this disc (see page 23).

### Select the Number of Copies

Use the **Number of Copies** control to specify how many discs you would like to burn.

### Edit/Submit Project

Click the **Submit** button to submit your project when you are ready to do so.



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## Audio CD

### Adding Audio Files

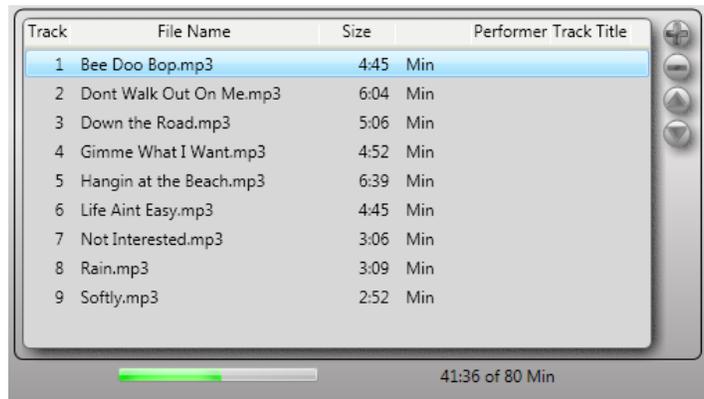
You will only be able to add audio files to this project type.

Please see **Common Project Steps: Adding Files to Record** on page 23.

The Track Number, Track Name, and Performer Track Title will be displayed.

#### Changing Track CD Text

Right-click a file in the list and select the option to **Enter Performer and Track Title**. A window will open allowing you to enter Performer and Title information. Click the **OK** button when the information is complete to return to the main window.



### Select a Label to Print

Use the Recent Labels Library or **Choose** button to select the print image you would like to use for your copies of this disc (see page 23).

### Select the Number of Copies

Use the **Number of Copies** control to specify how many discs you would like to burn.

### Edit/Submit Project

Click the **Submit** button to submit your project when you are ready to do so.



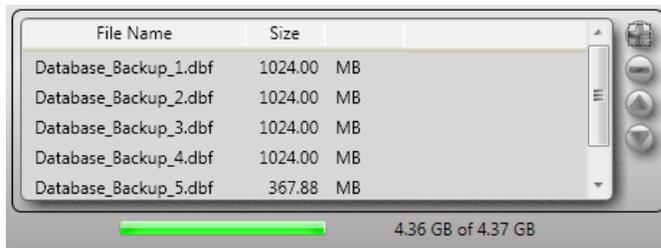
## Data CD, Data DVD, Data BD

Select the Data Project Type that matches the media to which you will be burning. Data BD can only be used if your Disc Publisher was purchased with a Blu-Ray drive. The capacity of the media will be determined by the media type selected.

### Adding Data Files

Files or folders of any type can be added to a data project.

Please see **Common Project Steps: Adding Files to Record** on page 23. The File Name and the file Size will be displayed. Any folder in the list will show the size of the contents of the folder.



### Select a Label to Print

Use the Recent Labels Library or **Choose** button to select the print image you would like to use for your copies of this disc (see page 23).

### Select the Number of Copies

Use the **Number of Copies** control to specify how many discs you would like to burn.

### Edit/Submit Project

Click the **Submit** button to submit your project when you are ready to do so.



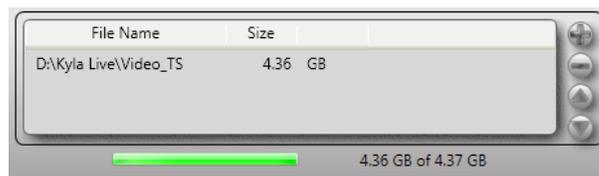
## Video

The Video project type allows you to burn video content to the appropriate disc type.

### Adding Video Files

Only the appropriate video folders can be added to a Video disc project.

Please see **Common Project Steps: Adding Files to Record** on page 23. The File Name and Size will be displayed.



### Select a Label to Print

Use the Recent Labels Library or **Choose** button to select the print image you would like to use for your copies of this disc (see page 23).

### Select the Number of Copies

Use the **Number of Copies** control to specify how many discs you would like to burn.

### Edit/Submit Project

Click the **Submit** button to submit your project when you are ready to do so.



## Print Only

The Print Only project type allows you to print to a disc without burning any information.

This project type is useful if you have pre-burned discs. You may also print prior to burning the discs, but in that case it is highly recommended that you allow the ink to dry fully before burning the disc in the disc publisher.

### Select a Label to Print

Use the Recent Labels Library or **Choose** button to select the print image you would like to use for your copies of this disc (see page 23).

### Select the Number of Copies

Use the **Number of Copies** control to specify how many discs you would like to burn.

### Edit/Submit Project

Click the **Submit** button to submit your project when you are ready to do so.



## Batch Copy (Local Client Only)

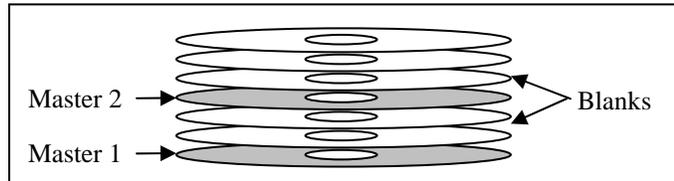
The Batch Copy project is the most automated of the project types, and can be used if you have more than one master that needs to be duplicated.

Batch Copy is similar to Disc Copy, except all media including the masters are processed in the Disc Publisher.

### Loading Discs for Batch Copy

Load the first master into the input hopper, then the number of blank discs you require. Load the second master next, then place as many blanks as is necessary on top of the second master, and so on. It is recommended that you load the first master and blanks, then select the correct print label for that master before loading the next set of master and blanks.

In the example to the right, the gray discs are the masters and the white discs are the blanks. Master 1 will first duplicate onto the 2 blank discs loaded above it, and then Master 2 will be duplicated onto the 3 blank discs loaded above it.



Each loaded master must have at least one blank disc to which it will be copied. Loading 2 masters in a row will stop the Batch duplication

After the Batch copy begins, the master will be loaded into the Disc Publisher and read to the hard drive. Duplication of the master will come from this hard drive image and not directly from the master disc.

### Selecting the Labels to Print

Unlike other project types, Batch Copy gives you the ability of selecting multiple labels.

The labels must be in the same order in the list as the masters that have been or will be loaded into the Disc Publisher. The master loaded first – on the bottom of the stack – will be associated with the first label in the list.

Highlighting a single label file in the label selection list will provide a preview to the left of the list.

You can populate your list of labels in a number of ways.

#### Recent Labels

Like on the standard Label to Print tab, you can choose your label from the Recent Labels list.

Double-clicking an icon will show the label Preview; dragging an icon into the label selection will add that file to the list.



#### Add Label button

The Add Label button opens a browser so you can select the labels by looking through the drives available to your PC.

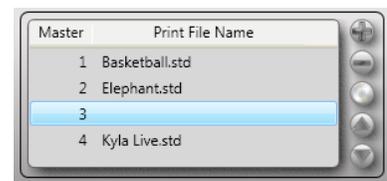
#### Copy and Paste, Drag and Drop

You can also use the Copy and Paste or Drag and Drop features of Windows Explorer to bring label files into the list.



#### No Label

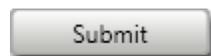
Clicking the **No Label** button will add a blank “placeholder” for the selected master, indicating that discs duplicated from that master will not be printed after being burned. In the example shown, copies of Master 3 will not be printed.



To the right of the list are the **Add Label**, **Remove Label**, **No Label**, **Move Up**, and **Move Down** buttons. Clicking the **Remove Label** button will remove any highlighted label from the list. **Move Up** and **Move Down** allow you to re-order the label files. Remember, the labels will be printed in the order in which they appear in the list. The number in the **Master** column will help you keep track of the correct order.

### Edit/Submit Project

Click the **Submit** button to submit your project when you are ready to do so.



**Note that after submitting a Batch Copy job, you will be unable to submit further jobs until the Batch Copy job has completed.**

## Burn Image

The Burn Image project type allows you to burn previously-created disc images. Use this project type to add VideoWrite protection.

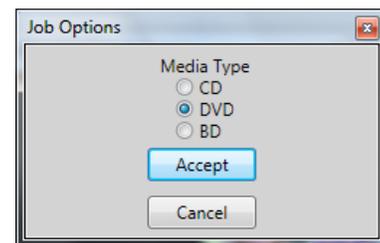
### Adding the Disc Image

Only supported disc image formats can be added to a Burn Image project. Supported image formats are .di and .iso.

Please see **Common Project Steps: Adding Files to Record** on page 23.

You can only select a single image per project.

Images created by PrintWrite 2 (.di) will automatically select the correct disc type. If the Disc Type selection appears, choose the correct **Media Type** for your selected image and click the **Accept** button.



### Selecting a Label to Print

Use the Recent Labels Library or **Choose** button to select the print image you would like to use for your copies of this disc (see page 23).

### Select the Number of Copies

Use the **Number of Copies** control to specify how many discs you would like to burn.

### Edit/Submit Project

Click the **Submit** button to submit your project when you are ready to do so.



### Using VideoWrite Copy Protection (*Local Client Only*)

***Windows 7 User Account Control must be off for the VideoWrite options to be available!!***

#### What is VideoWrite?

VideoWrite allows you to copy protect your Video image files on your Microboards Disc Publisher from within PrintWrite 2, offering you protection for your video content. Since the DVD Videos are copy protected, all production of these discs must be performed using PrintWrite 2 and your Microboards Disc Publisher.

VideoWrite is only available if you are operating PrintWrite 2 as a Local Client.

Your PrintWrite 2 installation comes with 10 free protected image burns. Additional burns require the purchase of a VideoWrite USB Dongle. Please contact your Reseller or Microboards Technology for more information.

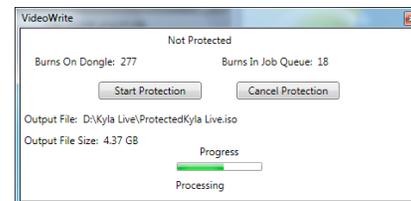
#### Creating a VideoWrite Protected Image

The VideoWrite option within PrintWrite 2 allows you to copy protect any correctly formatted Video ISO file. This option has been added to the **Burn Image** project, allowing you to quickly and easily perform the needed steps to protect the video DVD content you produce using your Microboards Disc Publisher.

VideoWrite does not alter your original Video image file, but makes a protected copy of your file. While this allows you to retain the original file unchanged, it does require hard drive space on your PC. As the Burn Protected File process also takes additional hard drive space, you should plan on having at least enough additional free space for twice the size of the original file. For example, if you have a 4.35GB video ISO file you want to protect and burn, you will need an additional 8.8 GB of free hard drive space.

If the .iso file you have selected is in the correct format for a Video image that has not been previously protected by VideoWrite **and** the VideoWrite USB Dongle is in place, the option to **Copy protect the image file with VideoWrite** will be available. Click the button to begin the protection process.

The available **Burns on Dongle** and **Burns in Job Queue** and the status of the ISO file will also be displayed. In the example to the right, there are **277** burns remaining on the dongle, with **18** VideoWrite discs currently in the Job Queue, for a total of 259 burns available.

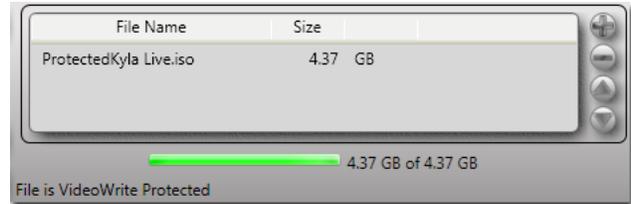


The Protection information will be displayed, showing the full path and name of the protected **Output File** (the word 'Protected' will be added to the name), the protected **Output File Size** (this will be larger than the original file), progress of the protection process, and the **Start Protection** button.

Click the **Start Protection** button to create the protected file.

The progress bar will show you how far along the protection process has come. You can cancel the protection process by clicking the **Cancel Protection** button.

Once copy protection is complete, the File Name will change automatically to that of the protected image file, the PrintWrite 2 window will show that the selected file is protected and the Copy Protection controls will be hidden.



If the image file you originally selected is already protected, that information will be shown and you will not need to protect the file again. The protected image file will automatically be processed using VideoWrite to create protected discs.

After the **Volume Name** and **Number of Copies** are entered in, click the **Start** button to submit the project. When using VideoWrite Copy Protection, you cannot burn more discs than you have **Burns on Dongle** minus the number of VideoWrite **Burns in Job Queue**. If you cancel a job in the queue, only the completed burns are counted.

**Please note that any video DVDs protected and burned using VideoWrite protection will not be able to be duplicated, including in a Microboards duplicator. All production must be performed using the VideoWrite protection on your Microboards Disc Publisher.**

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## Create Image (Local Client Only)

There are 2 Create Image project types, one that uses files that already exist on your PC and one that creates an image from a burned disc using the optical drive in your Disc Publisher. Either type allows you to store a master on your PC as a disc image.

Only .di formats can be created using PrintWrite 2.

### Defining the Source

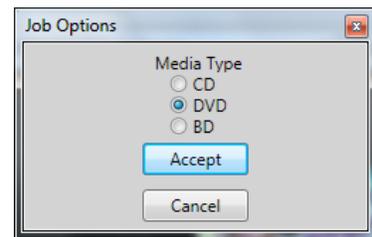
Your first step will be to decide the source of the disc image. You can either build an image using a master loaded into the Disc Publisher, or you can build an image using files on your PC.

#### From Files on PC

Select **Create Image: Files** from the Project Type drop-down list.

You will also need to specify the **Disc Type**. Your choices are **CD**, **DVD**, and **BD**. An image created as one type cannot be burned to other media formats; you cannot burn a CD image to DVD, for instance.

To select the files that will be included in the disc image, click the **Add Files** button. This will open the PrintWrite 2 Browser, allowing you to add the files you want to include in the disc image. Like all other project types, you can also drag-and-drop or copy-and-paste files into the file list.



Once the file list is complete, click the **Browse** button to select the image location.

#### From Publisher

Select **Create Image: Publisher** from the Project Type drop-down list.

To create an image using a disc, you will only need to select the location in which the image will be created. Click the **Image** button to select the location the files will be stored, the name of the directory in which they will be stored, and the name of the image file or files.

The master disc from which the image will be built is loaded into the Disc Publisher Input Hopper, and will be loaded automatically when you submit the project.

### Defining the Image Location

Regardless of the source of your disc image, the structure of the image will be the same. The main image file (with the .di extension) and any associated files will be saved in a directory with the same name as that which was entered. In the example to the right, the name entered in is **KylaAudioCDImage**; a directory of that name will be created in the current directory (Audio). The image files will be created in the **KylaAudioCDImage** directory.

#### Edit/Submit Project

Click the **Submit** button to submit your project when you are ready to do so.

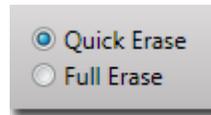


## Erase Disc (Local Client Only)

The Erase Disc project allows you to clear data off erasable media. Select the **Erase Disc** project.

#### Erase Method

Select whether you want to perform a **Quick Erase** or a **Full Erase**.



#### Select the Number of Copies

Use the **Number of Copies** control to specify how many discs you would like to erase.

#### Edit/Submit Project

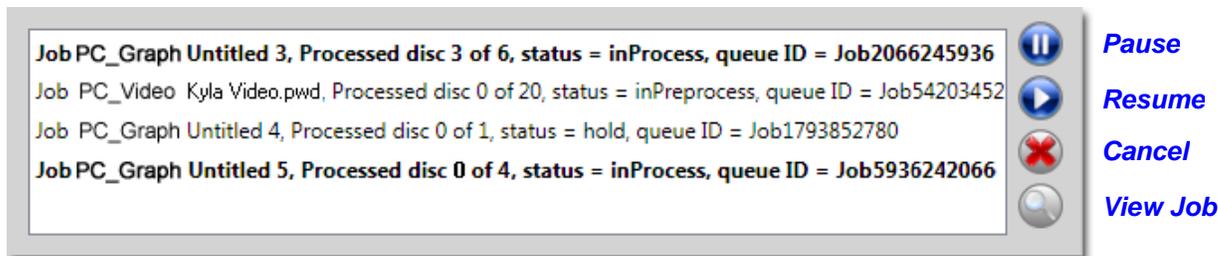
Click the **Submit** button to submit your project when you are ready to do so.



## The Job List Drawer

Once a project has been submitted, it will appear in the Job List drawer.

To view the Job List drawer, click the **Show Job List** button. The drawer will expand from either below or above the main window, depending on the vertical placement of the main window on your desktop.



The Job List will show the state of running and waiting jobs, as well as a count of the completed discs for each job. In addition to the job status, the job list will specify which PC originated the job by including the PC name before the Job Name. In the example above, two PCs named **PC\_Graph** and **PC\_Video** have jobs currently in the job queue.

The Job List will also show jobs currently or queued for transfer when operating as a Remote Client.

If you have several jobs in the list and need to delay one or more jobs for a job that needs to be completed as soon as possible, you can **Pause** the jobs that you want to wait to run until after the priority job.

The **Pause** button can only be applied to jobs in a **Ready** state; any job listed in bold with the status showing as **inProcess** cannot be paused.

Highlight a job and click the **Pause** button to place the selected job in a holding state. The status of paused jobs will show as **hold**. Once the priority job has begun, click the **Resume** button with the held job selected.

**Resume** can only be applied to jobs listed with a **hold** status. Highlight the held job and click the **Resume** button to have the job continue.

**Cancel** can be applied to any job in any state other than **Finished**. Doing so will halt the highlighted job after any discs currently being burned or printed are complete, or immediately if the job is not currently active. Click the **Cancel** button to cancel the currently selected job in the list.

Use the **View Job** button to review the contents of a job showing in the Job List.

### Job List Controls and Remote Connection

You will only be able to control or view all jobs in the Job List from a PC running the Local Client, meaning from the PC that is connected directly to the Disc Publisher.

If you are a Remote Client, meaning you are submitting the jobs to the Disc Publisher connected to a PC other than yours, you will only be able to use these controls on jobs your PC has submitted. In the example shown above, the user who submitted the jobs from **PC\_Graph** will not be able to use the Job List controls to **Pause**, **Resume**, **Cancel**, or **View** the job submitted from **PC\_Video**, for instance.

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## Working with Saved Projects

If you have Disc Publishing projects that you will be running repeatedly, saving the projects will save you the time of rebuilding the projects each time they need to be run.



Once a project has been created, save the project by selecting **Save** from the **File** menu or by clicking the Save Project button in the toolbar (shown to the right).

A browse window will open. Once you have selected the location for the saved project and entered the name under which you want to save the project, click the **Save** button. The project that you created can now be opened and run as many times as needed without having to remember the contents and settings of the project.

### File List and Print Image for a Saved Project

A saved project file does not actually contain any of the files in the File List or the selected Print Image. Instead, it is saving the locations of those files.

While this is a more efficient use of hard drive space, it does mean that the actual files listed in a saved project cannot be deleted, renamed, or moved to a different hard drive location as long as the saved project will be used.

### Opening a Saved Project for Review

There are three methods of opening a saved project for reviewing the project's settings prior to submitting the project.

1. Double-click the saved project icon in Windows Explorer
2. Using the Open option in the File menu to browse for and select the saved project
3. Clicking the Open Project button in the toolbar to browse for and select the saved project



All three of these options will show all of the files that were selected, as well as the print image, Number of Copies, Volume Name, Project Type, and various Job Option settings as they were when the project was initially saved.

You can make changes to any of the project information prior to submitting the job without changing the saved project itself.

### Submitting a Saved Project without Review

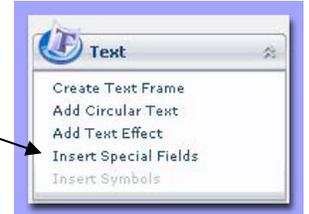
If you are certain that a saved project is set up exactly as you need it to be and you don't need to review the project, you can drag the saved project icon into the opened Job List for immediate submission. The job will be submitted into the Job List and will run according to the project settings at the time the project was saved.

# Using SureThing Merge Fields

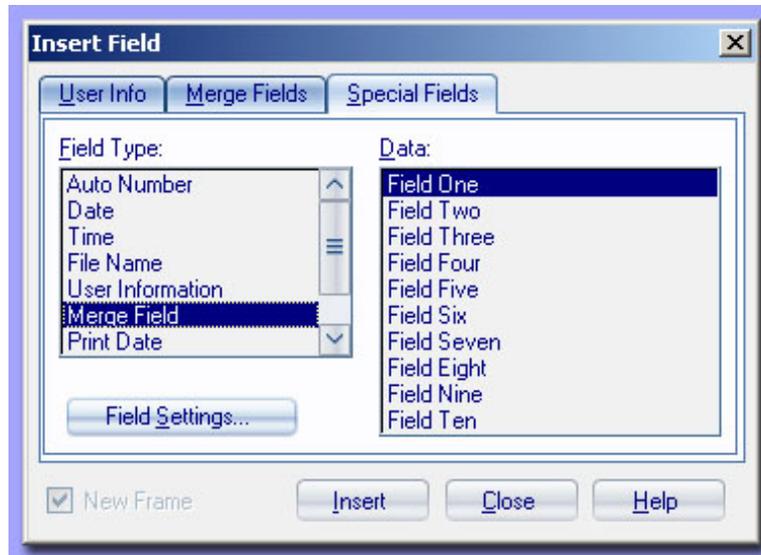
SureThing CD and DVD Labeler includes the ability to add Merge Fields to any label design, using data that you supply. This can be used for a number of conveniences, such as serializing the discs you print, adding specific information to a production run with a stock label image, or personalizing the discs being printed by adding the names of the recipients to the discs.

*The data that you supply must be in a .csv format, which can be created using Excel.*

To add a Merge Field to a label design, select **Insert Special Fields** in the Text toolbox, as shown to the right.



Next, select **Merge Field** in the Field Type column. Click the **Field Settings** button to select the data file.

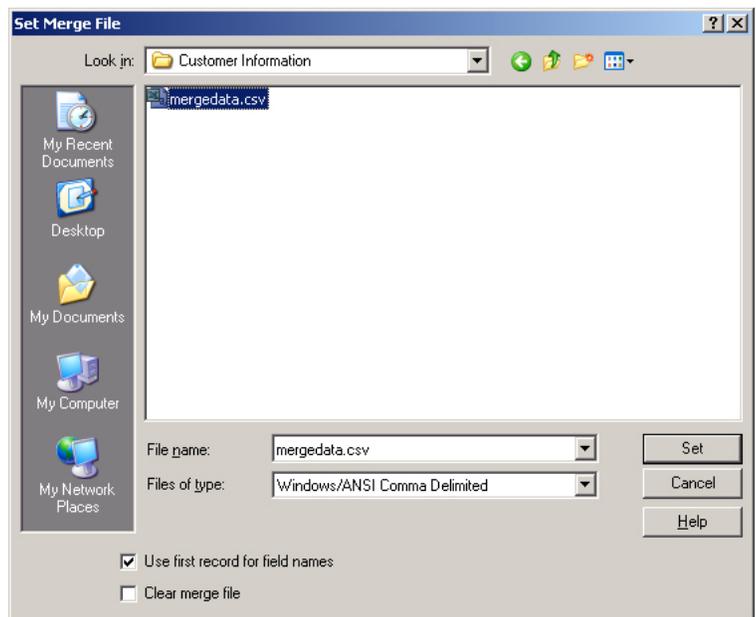


Use the browse button to select your .csv merge data file. All merge fields on the label must be from the same merge field data file.

If the first row of data contains the field names, place a check in the **Use first record for field names** box.

*It is recommended that you always include the field names as the first record in your .csv file.* This will allow you to more easily identify the field you are adding to your label.

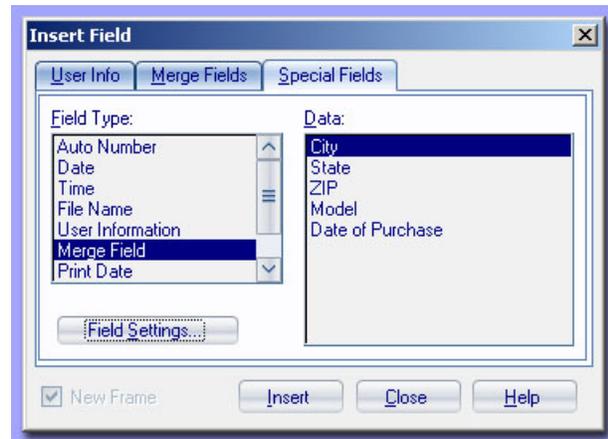
Click the **Set** button when you have selected your merge field data file.



Select the data field you want to add to your label by highlighting that field in the **Data** column and clicking the **Insert** button. Since the option to use the first record for field names was selected in the prior steps, the names of the fields are displayed for ease of data selection.

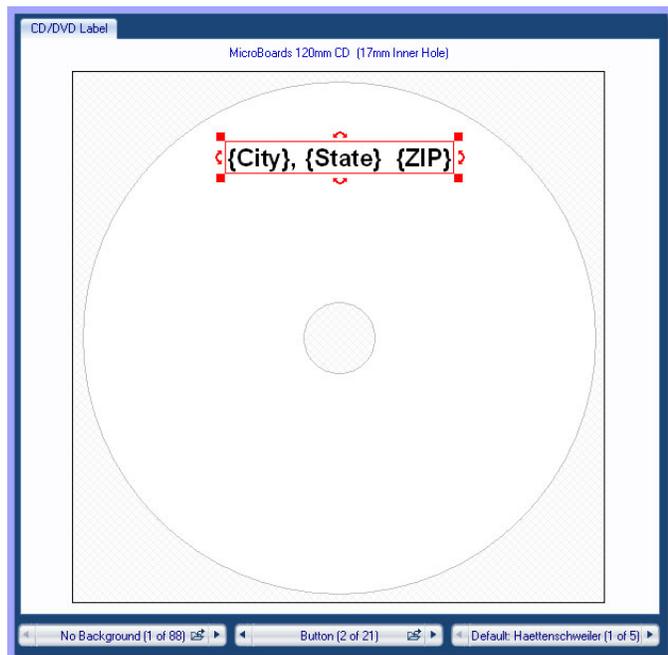
Note that you can insert more than one field into the same text box at a time. You can also add text to the text box between field selections without closing the Insert Field window.

Click the **Close** button when you are finished adding merge fields to your label.



In the example shown to the right, the **City**, **State**, and **ZIP** fields from the data file have been added to a single text field, along with text between the merge field values.

You can add more than one text field containing merge fields to a single label.



# Connection Troubleshooting

## Local Client Only

Shortly after the Disc Publisher is initialized, the state of the Disc Publisher should show as **Online** in the Publisher Information drawer. If, however, more than a few minutes have passed with the status showing as Stopped or Offline, try the following suggestions:

1. Shut down and restart PrintWrite 2 on the Local Client PC. The Publisher Status may show correctly when PrintWrite 2 launches again.
2. Confirm that the Local Client PC is running and that the PrintWrite 2 services and Server Manager are running. These services should be running even if the PrintWrite 2 application is not open. Use the PrintWrite 2 Monitor application to check the status of these services if PrintWrite 2 is not open. If the services are not running, reboot the Local Client PC.
3. Confirm that the Disc Publisher is on and connected to the Local Client PC. If not, connect and turn on the Publisher. Next, select **Publisher Utilities** from the **Utilities** menu and click the **Restart Services** button to restart the PrintWrite 2 services. You will also need to close and re-open the PrintWrite 2 application.
4. Confirm on the Local Client PC that the Disc Publisher is in an **Online** state. If the state of the Publisher is showing as **Offline**, open the Publisher Utilities on the Local Client PC and click the **Diagnostics** button to clear the **Offline** state.

## Remote Client Troubleshooting

It may take as long as a few minutes for the Remote Client connection to show as having been made. If, however, more than a few minutes have passed with the connection not completing, try the following suggestions, in order:

1. On the Remote Client PC, confirm you have selected the correct Local Client PC in the **Remote Servers Found** list in the Remoting Utilities.
2. Shut down and restart PrintWrite 2 on the Remote Client PC. Communication may be restored when PrintWrite 2 launches again.
3. Confirm that the Local Client PC is running and that the PrintWrite 2 services and Server Manager are running. These services should be running even if the PrintWrite 2 application is not open. Use the PrintWrite 2 Monitor application to check the status of these services if PrintWrite 2 is not open. If the services are not running, reboot the Local Client PC.
4. Confirm that the Disc Publisher is on and connected to the Local Client PC. If not, connect and turn on the Publisher, then restart the PrintWrite 2 services on the Local Client PC. You will also need to close and re-open the PrintWrite 2 application for the connection to complete.
5. Confirm on the Local Client PC that the Disc Publisher is in an **Online** state. If the state of the Publisher is showing as **Offline**, open the Publisher Utilities on the Local Client PC and click the **Diagnostics** button to clear the **Offline** state.
6. Confirm that PrintWrite 2 on the Local Client PC is configured to allow your PC access to the Disc Publisher in the Administrator Utilities. Be sure to check both the **Share Publisher** and **Client List** settings.
7. Confirm that **TCP Ports 10450** and **10451** are active as exceptions in any Firewall applications that are running on your network on the Local Client PC. For Windows 7 Firewall, make sure the ports are active in both the **Incoming** and **Outgoing** exception lists.
8. Allow **File and Printer Sharing** in your Firewall Exceptions list on the Local Client PC.

***Be sure to allow enough time to pass between each attempt to connect to the Local Client PC.***

# Requirements to Allow Remote Client Connections

*Please consult with your Network Administrator prior to making any changes to the firewall or network settings on your PC!*

For PrintWrite 2 installed on a Local Client PC to allow Remote Client connections to be made, the following configurations on the Local Client PC must be set:

1. For Windows 7 and Vista, **User Account Control** must be set to **OFF** on the Local Client PC. Changing this setting will require a reboot of the PC.
2. PrintWrite 2 and Disc Publisher hardware must be installed on the Local Client PC.
3. Ports **10450** and **10451** must be opened in any Firewall application as **TCP Ports** on the Local Client PC.

For Windows Firewall, the option to do this automatically is offered during the Disc Publisher installation.

If you are using a Firewall application other than Windows Firewall, these ports will need to be added manually to the Firewall Exception list.

4. **ServerManager.exe** must be added to the Firewall Exception list as an allowed application. Depending on firewall configuration, you may be asked to allow ServerManager.exe after the PC is rebooted; if you are asked, answer that ServerManager.exe should be allowed.
5. Allow **File and Printer Sharing** in your Firewall Exceptions list on the Local Client PC.
6. The Local Client and Remote Client PCs must be in the same Domain or Workgroup.
7. The Local Client and Remote Client PCs must be on the same Network Gateway and on the same Subnet Mask **through the first 3 octets** (the Subnet Mask will appear in the Network Connections TCP/IP Properties as **255.255.255.0** with **255.255.255** being the first 3 octets).

## Technical Support

For technical questions or support issues, contact Microboards Technology technical support:

**United States**  
PH: 952-556-1639  
FAX: 952-556-1628  
[support@microboards.com](mailto:support@microboards.com)  
[www.microboards.com](http://www.microboards.com)

**Europe**  
PH: +44 (0) 845 230 7800  
[www.microboards.co.uk](http://www.microboards.co.uk)

**Japan**  
PH: 03-3561-2266  
[www.microboards.co.jp](http://www.microboards.co.jp)

Please also have the Model and Serial Number of the Disc Publisher you are using with PrintWrite 2.

