

# DNP

## User Guide



*Mobile*  
**PartyPrint**

A wireless event photography solution for use  
with iOS, Android phones and tablets



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DNP IMS America, Corp. \* 4524 Enterprise Dr NW \* Concord, NC 28027 \* USA

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## ABOUT THE SOFTWARE

### WHAT IS MOBILE PARTY PRINT?

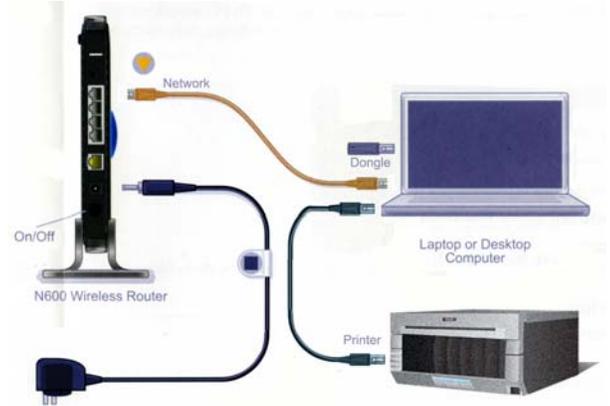
Mobile Party Print is a *portable photography solution that allows event guests to print photos on the spot using wireless technology*. The Mobile Party Print solution consists of two software applications - Hot Folder Print Utility (HFP) and Mobile Party Print. Both software applications are used to create the overall Mobile Party Print event solution. HFP and MPP are installed on the Windows computer (sometimes called the server) where the printer is attached. The MPP mobile app is also downloaded from the appropriate app store (iOS® or Google Play®) onto the user's portable device. From their mobile phones or tablets, users can then take photos and print them immediately at the event for sharing!

**Hot Folder Print™ Utility (HFP)** is a utility that monitors file folders for compatible image files to send to an attached printer for output.

The folders are named according to the size print that will be produced. HFP prints a single copy of each image and then moves the image file to an archive folder, which is named by the day HFP is utilized. HFP supports adding borders to prints using the HFP Admin controls.

**Mobile Party Print (MPP)** is a software application that provides people the ability to use Wi-Fi to transfer photographs from their mobile/digital devices using an app installed on their device. The MPP Server receives the images from wireless devices and saves the images to HFP to fulfill. MPP has a screensaver/attract loop to promote the service. MPP also has admin functions to configure the system.

Both **Hot Folder Print Utility** and **Mobile Party Print** allow for multiple languages and are installed as a package.



### WHAT'S NEW

In this version of Mobile Party Print, the following features have been added:

**Dynamic IP Scanning** – Now, instead of having to manually set the IP address for the MPP system, the IP address is automatically found when the system is started. This means less configuration and setup time on the server.

**Custom Help and Messaging** – Three HTML help or messaging screens are now able to be customized to display your adjusted messaging.

## *USING THE MOBILE PARTY PRINT SOFTWARE*



### Note

Before starting Mobile Party Print, make sure to start Hot Folder Print Utility.

### SOFTWARE REQUIREMENTS

Your system must meet the following requirements before installing the Mobile Party Print system.

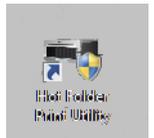
- ❖ Windows 7 Pro or Windows 8 operating system - 32 or 64 bit
- ❖ .NET version 4
- ❖ LAN (Ethernet) input on the computer
- ❖ No previous versions of Apache Tomcat installed
- ❖ No 3rd Party firewall applications installed
- ❖ Windows firewall supported

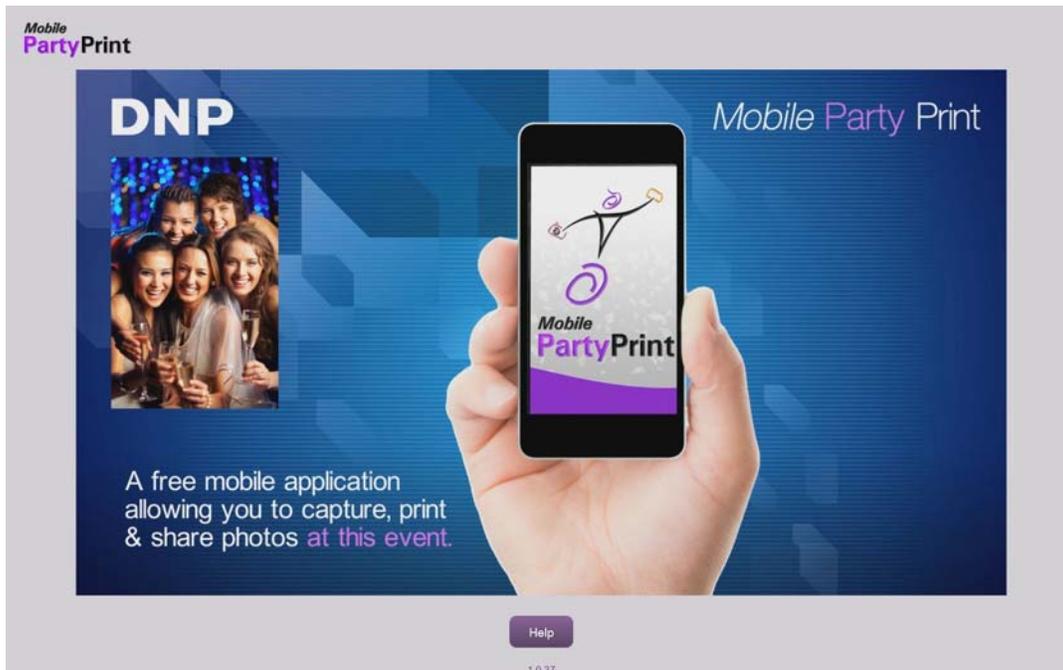
**Dongle:** The included Dongle is necessary for operation of Mobile Party Print. If the driver software for the dongle is not installed (or installed incorrectly), or the dongle is not plugged in, the mobile applications cannot connect to the server.

### STARTING THE MPP SOFTWARE

1. If you have not already, double click on the **Hot Folder** icon on your desktop to start the Hot Folder Print Utility.
2. Double click on the **Mobile Party Print** icon on your desktop to start the program.

Mobile Party Print starts in full screen mode. Once the screensaver is running, the software is ready for use.





From the main page, you can perform the following actions:

- ❖ Access the administrative menu.
- ❖ View the screensaver or photo slide show during the event.
- ❖ Open the help file for more information about Mobile Part Print.

## ACCESSING HELP

1. Selecting the **Help** button at the bottom of the screen displays the help screen.
2. Once the help screen is displayed, click the **Print** button to send a copy of the help instructions to the printer. The instructions print in the default print size.

### Note

The instructions image is not saved in the archive folder.



3. Click the **OK** button to close the Help Screen and return to the screensaver.

## USING THE MOBILE PARTY PRINT ADMIN INTERFACE

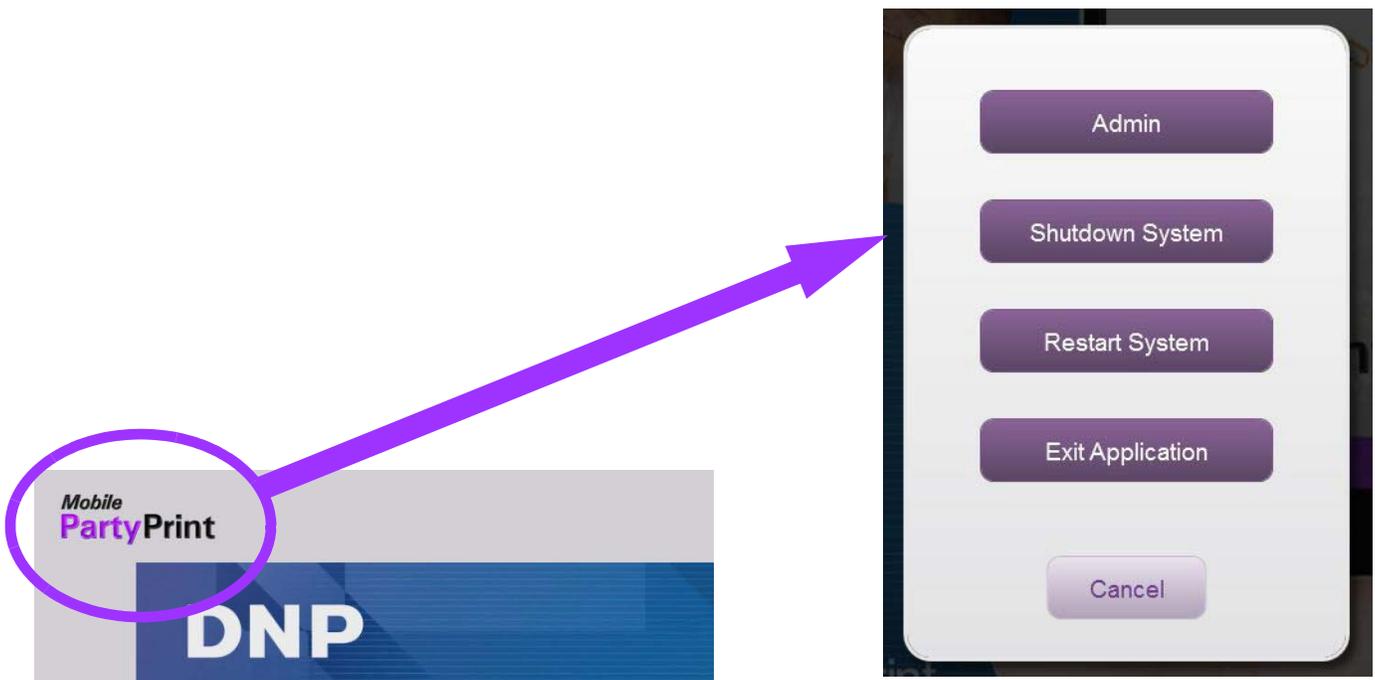


### Note

Before starting Mobile Party Print, make sure to start Hot Folder Print Utility.

### ACCESSING ADMINISTRATIVE OPTIONS

To access the Administrative Options, touch and hold the Mobile Party Print Icon in the top left corner. When the keypad appears, enter the password (default is 4103) and press **OK**.



From here you can access the following:

- ❖ **Admin:** Open the Administrative Settings menu.
- ❖ **Shutdown System:** Shut down the computer.
- ❖ **Restart System:** Restart the computer.
- ❖ **Exit Application:** Exit the application, and return to the desktop.
- ❖ **Cancel:** Exit the Administrative Options menu, and return to the main screen.

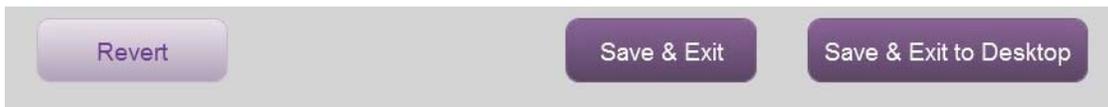
## TOURING THE INTERFACE

There are three screens in the current Admin interface:

- ❖ **System Settings:** Use this tab to make changes to the Mobile Party Print application settings.
- ❖ **Server Settings:** Changes settings for connecting devices to the system.
- ❖ **Message Settings:** Allows for customized messaging.

The following buttons appear at the bottom of each Admin screen. Use the buttons to navigate the Admin interface as needed.

- ❖ **Revert Button:** Reverses any changes made (does not revert once changes are saved).
- ❖ **Save & Exit Button:** Saves & exits to main screen.
- ❖ **Save & Exit to Desktop Button:** Saves and exits to desktop.



## SYSTEM SETTINGS

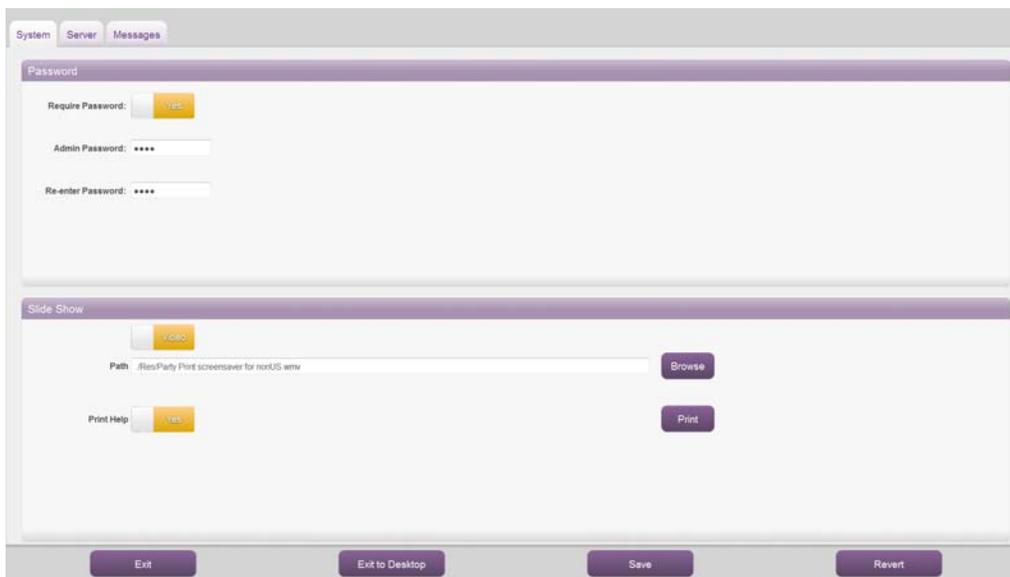


Figure 1. System Settings tab

Password settings refer to the password required to access the Administrative Options.

- ❖ **Require Password**
  - ◆ **ON:** Require password.
  - ◆ **OFF:** Do not require password.

- ❖ **Admin Password:** Password for Administrative Options screen.
- ❖ **Re-enter Password:** If changing the password, re-enter the password before saving.
- ❖ **Slide Show Settings:** Set what shows on the main screen.

SlideShow

Pics

Path /Res/Slideshow/ Browse

Image Display Time 10 seconds

PrintHelp Yes Print

- ❖ **Video/Pics:** Switch between a video or picture slide-show. Supported formats are:
  - ◆ **Image Files:** JPG, TIF/TIFF, BMP, PNG
  - ◆ **Movie Files:** MOV, MWV, MP4
- ❖ **Path:** Use Browse to select either the file (movie) or folder (slideshow) to use on the main screen.
- ❖ **Image Display Time:** Used for the slideshow option to select the number of seconds each image is displayed.
- ❖ **Print Help:** Show the print button (right) on the help screen.
  - ◆ **Yes:** Show Print button on help screen.
  - ◆ **No:** Do not show Print button on help screen.
- ❖ **Print:** Print the help file using the default size.

## SERVER SETTINGS

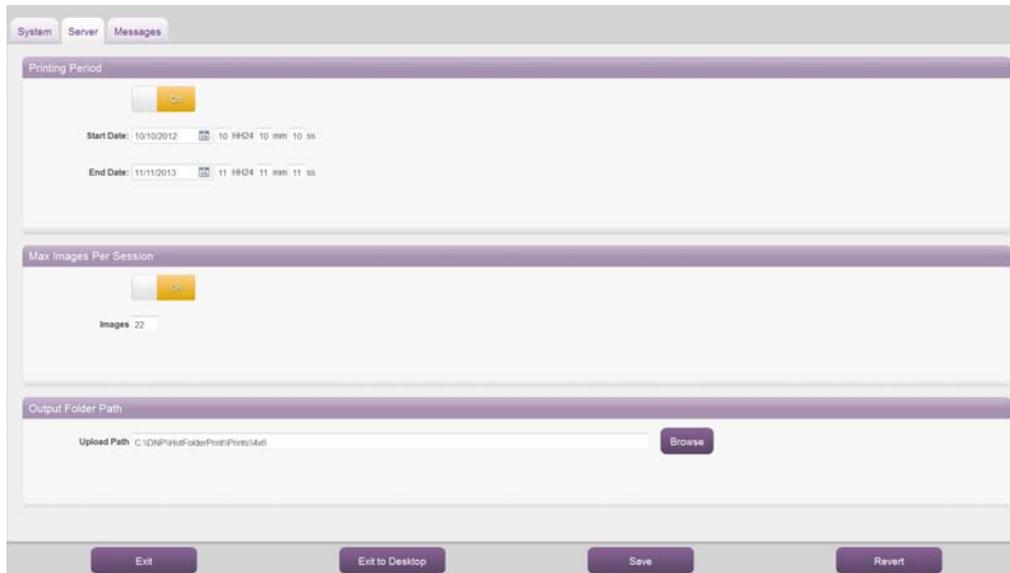


Figure 2. Server Settings tab

The server settings control how the Mobile Party Print server responds to requests to print from the Party Print application installed on mobile and/or Wi-Fi devices. From this screen you can define the allowable date/time range for photos selected for printing, define how many images can be selected for printing at one time, and define the output folder for prints (also defines the print size).

- ❖ **Printing Period:** Sets the start and end dates when photos can be submitted, including existing prints. This will prevent people using the mobile application from submitting photos taken before the start date/time, as well as photos taken after the end date/time (they will receive a “out of date range” error).
  - ◆ If set to OFF, the application does not check the date the photo was taken before printing. If set to ON:
  - ◆ **Start Date:** The earliest date/time when the photo to print was taken (determined by EXIF data)
  - ◆ **End Date:** The latest date/time when the photo to print was taken (determined by EXIF data)
- ❖ **Max Images Per Session:** Sets maximum number of images that can be sent from the Party Print application on mobile/Wi-Fi devices.
  - ◆ **ON:** maximum number of images sent at one time will be set by number in Images box
  - ◆ **OFF:** there is no restriction on the number of images that will print
  - ◆ **Images:** user inputs the maximum number of images a user can send in one session.
- ❖ **Output Folder Path:** Sets the print size by setting the folder to which the server will save images in the Hot Folder Print directory. For instance, to print 4” x 6” prints at an event:
  1. Select **Browse** to open browsing window.
  2. Navigate to the C: \DNP\HOTFOLDERPRINT\PRINTS\ directory.
  3. Select the **4x6** folder.

4. Touch **OK** to select the folder.
5. The path `C: \DNP\HOTFOLDERPRINT\PRINTS\4x6` will show in the Upload Path field.

- ❖ **Upload Path:** Lists the directory path where the upload folder is located.
- ❖ **Browse:** Select to open browsing window.

## MESSAGE TAB

The new message tab allows you to add customized HTML messaging and help files for your events. The customization also accepts language-specific messages, so customizing your messaging for different language markets is easy. All three customized messages appear on the user's device or phone.

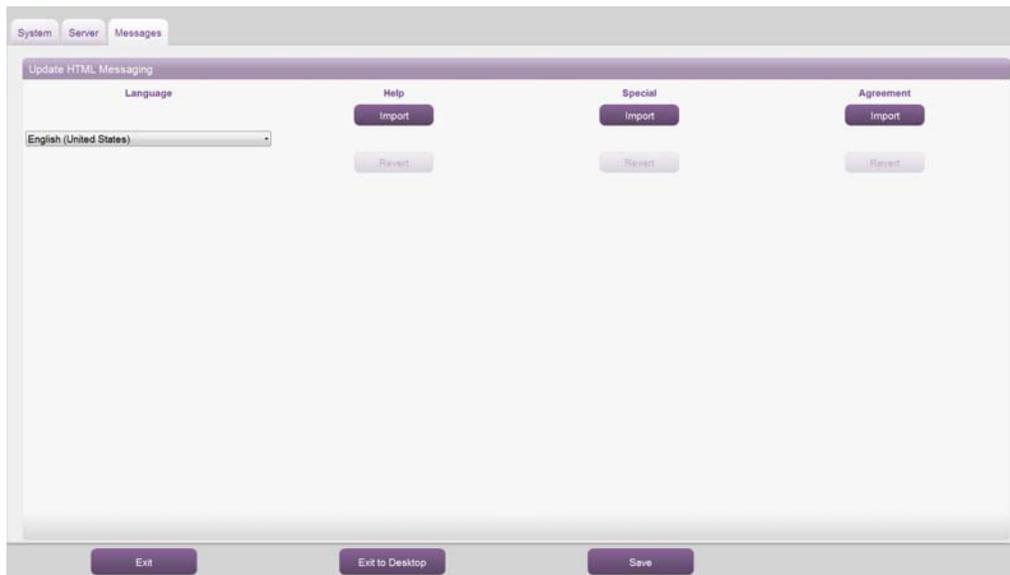


Figure 3. Messages tab

There are three messages that can be customized:

- ❖ **Help:** The on-device help page can be customized as needed with event-specific information or languages.
- ❖ **Special:** The start-up screen that is shown when Mobile Party Print starts on the mobile device can also be customized or replaced.
- ❖ **Disclaimer:** The copyright notice is also able to be customized.

### Rules for New Files

The following rules must be followed when creating or importing new files.

**Imports are at folder-level, not file-level.** When selecting the imported messages, you are selecting a folder, not individual files. All of the files that are needed for a message (text file, HTML file, image files, etc.) must be under one folder. For instance, if you want to import a new help file, then the HTML file and any configuration or image files should be in a unique folder. Sub folders are allowed.

**Files are stored in language-specific folders.** All of the imported message files are stored in the appropriate language folder in the following directory:

`C: /DNP/PARTYPRINT/[LANG]` where [lang] is the language code.

For instance, Spanish files would be stored in the `C: /DNP/PARTYPRINT/ES` directory.

**Priority for using customized files.** If there is a connection to the Party Print sever, then the message files are shown in the following priority:

1. Selected language customized files.
2. Selected language default files.
3. Default language customized files.
4. Default language default files.
5. No message files.

**Help files.** All settings can be found in the default help file. The file must be named in the following manner: HELP\_[OS]\_[LANG]. HTML where **[OS]** is the operating system for the device and **[lang]** is the two letter code for the language. For an English Android file, the file would be named Help\_Android\_en.html.

**Special files.** All settings can be found in the default special file. The file must be named in the following manner: STARTUP\_[LANG]. HTML where **[lang]** is the two letter code for the language. For an English file, the file would be named Startup\_en.html.

**Disclaimer files.** All settings can be found in the default disclaimer file. The file must be named in the following manner: AGREEMENT\_[LANG]. HTML where **[lang]** is the two letter code for the language. For an English file, the file would be named Agreement\_en.html.

## Importing New Message Files

1. Select the language for the type of file you want to import.
2. Under the proper heading - *help, special, disclaimer* - select the **Import** button.
3. Browse to the folder where your customized files are stored. Select the folder.
4. Click the **OK** button to import your files.



### Note

Once you have imported custom files at least one time, you can use the **Revert** button to revert to the previously-saved files. This is useful if incorrect files are imported, or there is a corrupt file imported.

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## ***TROUBLESHOOTING MPP ISSUES***

### **PROBLEMS RUNNING THE MPP SOFTWARE**

**Cannot see the Mobile Party Print server:** There are multiple reasons why devices cannot connect to the Mobile Party Print server.

- ❖ Check to make the server is configured correctly.
  1. Check to make sure the router is plugged in and receiving power.
  2. Check that the router is plugged in correctly and the computer is not plugged into the port for your internet connection. The router must be plugged into your server using a network cable.
  3. Login to your router to check your settings.
- ❖ Check that the computer has networking enabled.
  - ◆ Make sure firewall allows port 8080 to receive inbound traffic.
  - ◆ Make sure the Dongle is plugged in.
- ❖ **Cannot send pictures** (date out of range): The date range is set so that the image cannot be sent.
  1. Open the Administrative Settings menu to the **Server** tab.
  2. Check to see if Printing Period is **ON**.
  3. If you do not want to have date restrictions, toggle to **OFF**.
  4. Check that the date range is set so that the current date and time is in range.
- ❖ **Cannot send pictures** (no info): Party Print must have the dongle in place in order to work.
  1. Check that the dongle is plugged in.
  2. Try moving it to a different USB port.
  3. Verify the dongle is operating by opening the **UploadImageSettings** shortcut on the desktop.
  4. If the dongle is not working or seated properly, the web page that opens will show a message on the screen saying "Invalid Dongle"

## USING THE HOT FOLDER PRINT SOFTWARE



### Note

Before starting Hot Folder Print Utility, make sure your DS or RX series printer is connected to your printer via USB, and powered ON.

You may need to install the printer driver before your printer shows in your printer and devices application.

### STARTING THE HFP SOFTWARE

Double click the **Hot Folder Print** icon on your desktop to start the Hot Folder Print Utility.



### PRINTING PHOTOS USING THE HFP SOFTWARE

The folder browser allows you to select the HFP output folder. Copy images into a folder, and the image is automatically sent to the printer. The name of the folder indicates the print size.

You can select from the following sizes:

- |           |          |          |
|-----------|----------|----------|
| ❖ 3.5 x 5 | ❖ 4 x 6  | ❖ 5 x 7  |
| ❖ 6 x 8   | ❖ 6 x 9  | ❖ 8 x 10 |
|           | ❖ 8 x 12 |          |

1. To print images, simply click the folder icon to open the print size folder location.
2. Using a different Windows Explorer window, browse to the location where your images are stored.
3. Copy the images you want to print. Use the CTRL or SHIFT keys to select multiple images.
4. Paste the images you want to print into the corresponding print size folder.



### Note

If you have a border in that print size folder, then the default border will automatically print on the image.

## TOURING THE HFP OPERATOR INTERFACE

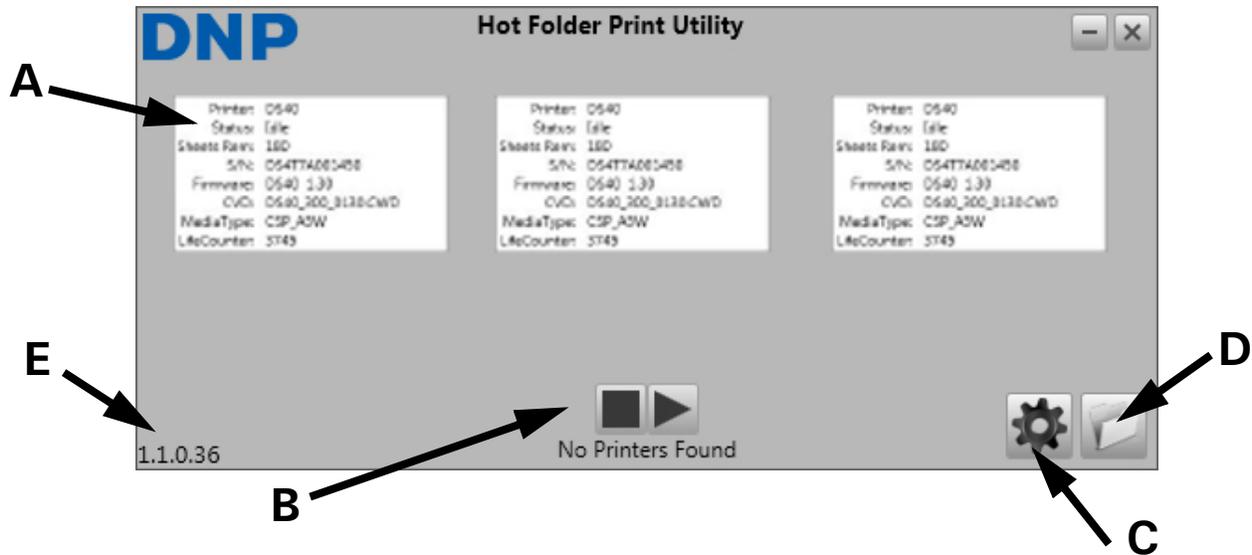


Figure 4. Hot Folder Print Utility Interface

### A - Printer Info Box

Shows information about your printer at a glance.

- ❖ **Printer:** Printer type (DS40, DS80, RX-1)
- ❖ **Status:** Current status of the printer Idle, Printing, Error, etc.
- ❖ **Sheets Rem:** # of prints left on the media.
- ❖ **S/N:** Serial number of the printer
- ❖ **Firmware:** Firmware installed
- ❖ **CVD:** Firmware color configuration file
- ❖ **Media Type:** Size of media installed
- ❖ **Life Counter:** Total # prints run through the lifetime of the printer.

### B - Application Controls

Stops and resumes print folder monitoring.

- : Stops, or pauses, the monitoring of the print size folders so that no further prints are made.
- ▶: Resumes monitoring of the print size folders.



#### Note

Stopping may not immediately stop printing. The printer first empties the prints in the print buffer.

## C - Admin Controls

Touching the gear  opens the Admin Control Menu. For more information on the Admin controls, see the HFP Admin section.

## D - Folder Explorer

Touching the folder  icon opens the monitored folder in Windows Explorer.

## E - Version Number

The software version number is listed for technical support purposes.

## STOPPING THE HFP SOFTWARE

You can stop, or pause, the monitoring of the print size folders by pressing the Stop button at the bottom of the main screen. When you are ready to resume printing, press the **Continue**, or resume, button.

## EXITING THE HFP SOFTWARE

To exit the program, touch the **X** in the top right corner.

## *USING THE HFP ADMIN INTERFACE*

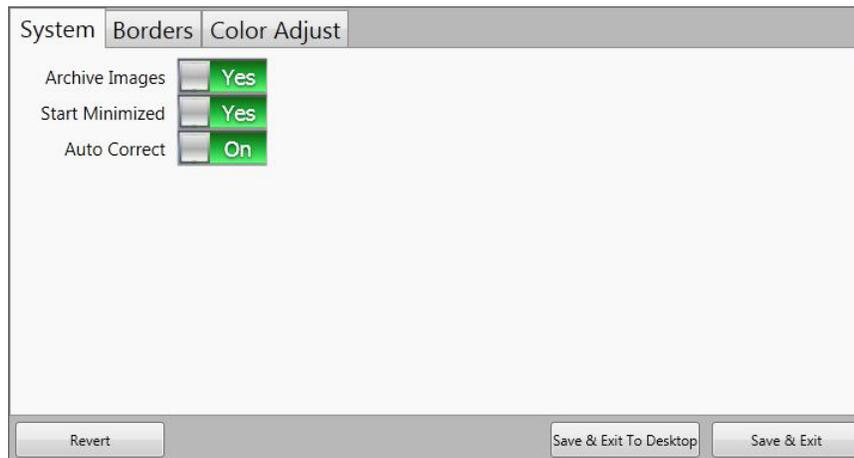
The admin interface allows you to customize the HFP utility to better suit y our needs.

### TOURING THE HFP ADMIN INTERFACE

Throughout the Admin interface, the following button definitions remain the same:

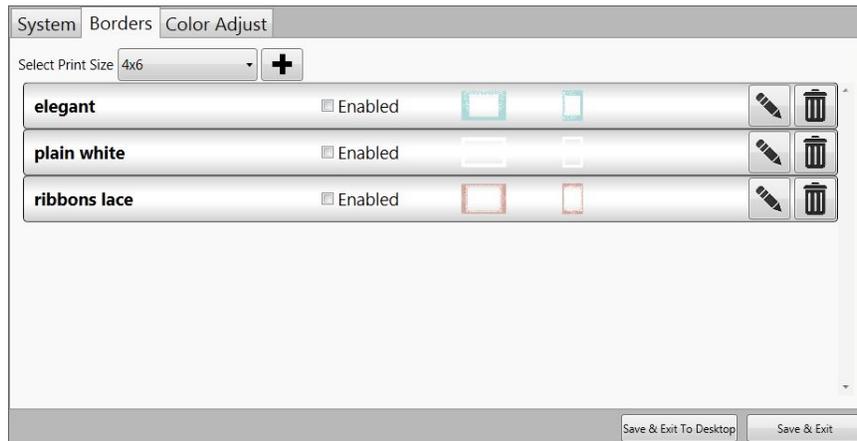
- ❖ **Save & Exit to Desktop:** Saves and exits to desktop.
- ❖ **Save & Exit:** Saves & exits to HFP interface.
- ❖ **Revert:** Reverts any changes made. The Revert button does not revert once the changes are saved.

### System Tab



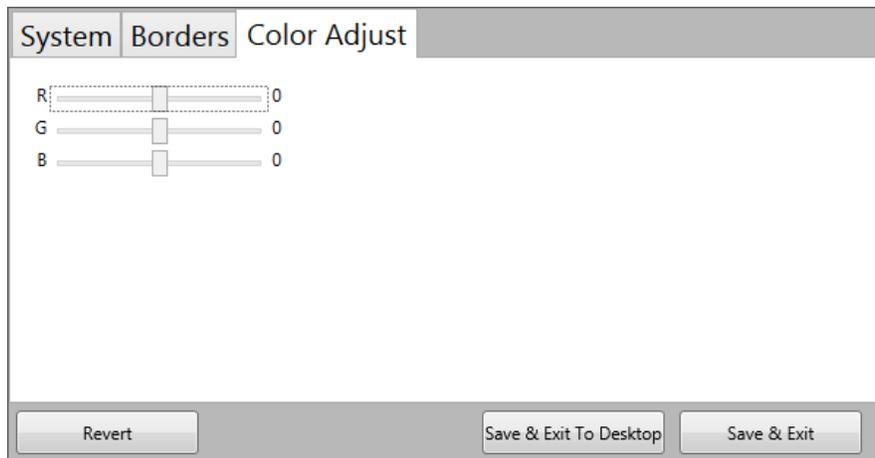
- ❖ **Archive Images Slider**
  - ◆ **YES:** Copy images sent to folder to archive
  - ◆ **NO:** Do not copy images sent to archive
- ❖ **Start Minimized Slider**
  - ◆ **YES:** Program starts minimized
  - ◆ **NO:** Program starts normally
- ❖ **Auto Correct slider**
  - ◆ **YES:** Applies auto-color correction
  - ◆ **NO:** No auto-color correction applied

## Border Tab



- ❖ **Select Print Size** – Drop down box with printable sizes, select a size to view those borders.
- ❖ **Add Border** – Touch the button to open a dialogue box to add new horizontal and vertical borders in the selected Print Size.
- ❖ **Border Information**
  - ◆ **Name:** Enter a border name.
  - ◆ **Enabled:** Check to print border on all prints of the selected print size.
  - ◆ **Border Preview:** Horizontal and vertical previews of the border.
  - ◆ **Edit:** Touch the button to open the border editing tool.
  - ◆ **Delete:** Press to remove the border from the system.

## Color Adjust Tab



The color adjust tab adjusts the overall output color. Adjustments made here will show on all prints made.

- ❖ **Red Slider**
  - ◆ Move the slider to the right to lessen red

- ◆ move the slider to the left to intensify red

- ◆ **Green Slider**

- ◆ Move the slider to the right to lessen green

- ◆ move the slider to the left to intensify green

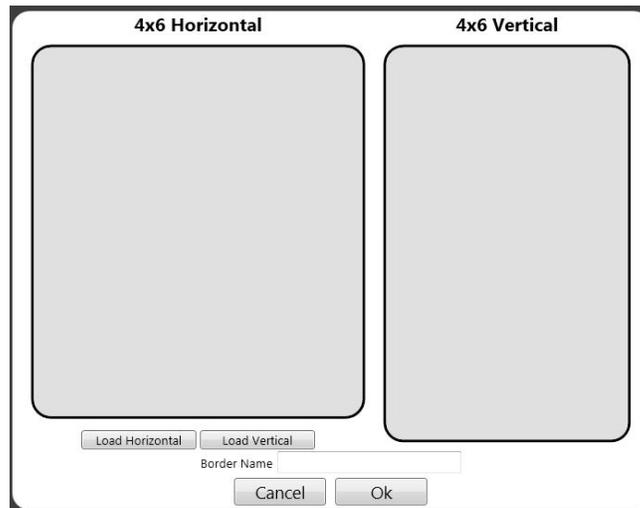
- ◆ **Blue Slider**

- ◆ Move the slider to the right to lessen blue

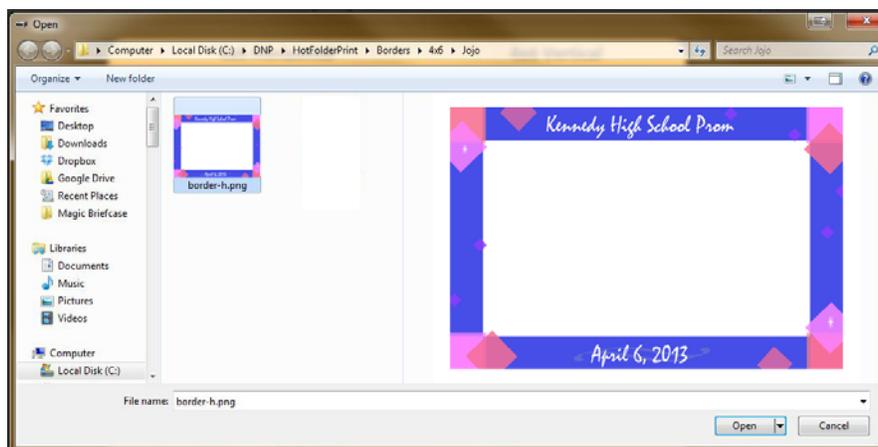
- ◆ Move the slider to the left to intensify blue

## ADDING BORDERS

1. To add a border, first select a print size.
2. Touch the + button on the **Border** tab. The Add Border dialogue opens.



3. Each border requires both a horizontal (landscape) and vertical (portrait) version of the border in order to print.
4. Press **Load Horizontal** to select the horizontal version of the border. Press **Load Vertical** to select the vertical version of the border. The software will auto detect the picture area—to adjust see “Editing Borders” on page 21.
5. You must enter a name in the **Border Name** field before saving the file.
6. Click **OK** to save the borders using the text entered under the Border Name field as the name. Click **Cancel** to return to the Border tab.
7. The borders will save in following folder:  
C: \DNP\HOTFOLDERPRINT\BORDERS\[SIZE]\[NAME]  
where [size] is the print size for the border, and [name] is the text entered in the Border Name field.



8. HFP automatically inserts your pictures into the correct border based on metadata from the image.

## EDITING BORDERS

1. To edit a border, first select a border on the **Border** tab. The Edit Border dialogue opens.
2. Each border requires both a horizontal (landscape) and vertical (portrait) version of the border in order to print.
3. You can adjust the size of the area in which the image will appear by grabbing and dragging the circles on the border. The darkened area indicates the area in which the image will appear.



4. To move the area overall, grab the box and move it where you want the image to appear.
5. Click **OK** to save the borders. Click **Cancel** to return to the Border tab.
6. Any part of the border within the darkened area will overlap your image once applied.

## CREATING BORDERS

Borders must meet the following criteria:

- ❖ Each border requires a full size, 300 dpi resolution file for horizontal & vertical orientations.
- ❖ The full resolution file must be expected print size (e.g.: 4x6, 5x7) at 300 dpi. Both vertical & horizontal files must be saved in PNG format, RGB mode, with a transparent background & with a defined opening for the image.
- ❖ In general, the opening in the border should have the same aspect ratio as the overall image (e.g.: 4:6), although the opening does not have to be strictly rectangular and may have various edge treatments. This can be edited with the Border Tool in the HFP Admin after the border is uploaded to the system.
- ❖ All files should be UNCOMPRESSED (no LZW compression).

An example of a 4x6 border follows:

Border Orientation	Version	Naming	Size	Resolution	File Format	Color Mode
Horizontal (Landscape)	full size	[name]_h.png	4"x6"	300 dpi	PNG	RGB
Vertical (Portrait)	full size	[name]_v.png	6"x4"	300 dpi	PNG	RGB

## ***TROUBLESHOOTING HFP ISSUES***

### **TROUBLESHOOTING THE SYSTEM**

#### **Software Installation Issues**

Your system must meet the following requirements before installing the Mobile Party Print system.

- ❖ Windows 7 Pro or Windows 8 operating system - 32 or 64 bit
- ❖ .NET version 4
- ❖ LAN (Ethernet) input on the computer
- ❖ No previous versions of Apache Tomcat installed
- ❖ No 3rd Party firewall applications installed
- ❖ Windows firewall supported

**Dongle:** The included Dongle is necessary for operation of Mobile Party Print. If the driver software for the dongle is not installed (or installed incorrectly), or the dongle is not plugged in, the mobile applications cannot connect to the server.

#### **Problems Running Hot Folder Print Utility**

**Prompted to Install .NET:** HFP requires a minimum of Microsoft .NET version 4 in order to work properly. If you do not have this version on your computer, you will be prompted to install .NET v 4 when you try to run Hot Folder Print Utility.

**Border will not print:** There are multiple reasons the border may not be printing.

- ❖ Check to make sure that the border is installed in the correct folder.
  - ◆ Open **Admin Controls > Borders**, and select the **Print Size** from the drop down menu if the border does not show in the list, install the border using the Add Border instructions.
- ❖ Check to make sure that the border is enabled in the Admin controls/Border tab.
  1. In **Admin Controls > Borders**, select the **Print Size** from the drop down menu.
  2. Find the border in the list, and check to see if there is a check mark next to the Enabled indicator. If there is no check mark, select the box next to **Enabled**.

**Border is not printing properly** (image is too large/small in the border): The border's alpha channel is not set properly.

- ❖ Check to make sure that the border has well defined alpha channels in **Admin Controls > Borders**, select the **Print Size** from the drop down menu find the border in the list, and click on the pencil icon to edit.
  - ◆ Use the circles to define the image print area on the border. Border areas overlapping the box will cover the image. Click **OK** to save changes.

**Border will not upload in the program:** Borders must be saved in the correct format and have both horizontal and vertical borders provided to work.

1. Check to make sure that the border has a horizontal and vertical version, and is saved in the correct format.
2. Borders must have a horizontal (landscape) and vertical (portrait) version of the border in the correct ratio to work correctly.

3. Borders should be in PNG format with a transparent background and a “hole” cut out where the image should appear.
4. When the border uploads, use the circles to define the image print area on the border (page 6). Border areas overlapping the box will cover the image.
5. Click **OK** to save changes.





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