

ONYX® White Paper

Printing From a Mac

November 2010

Introduction

This White Paper describes the steps to be able to print to your ONYX Workflow software from any software application within your Mac OSX. For example, send jobs to ONYX PosterShop directly from the Adobe Illustrator that resides on your Mac. You'll be able to create and print faster and easier with a few initial steps. By performing the processes as outlined in this White Paper, you'll be able to print from your Mac OSX to an ONYX Virtual Printer using Printservices for UNIX.

There are four major steps when printing from OSX to an ONYX Virtual printer with Printservices for UNIX. These steps include the following workflow:

Configure the Network

Install Printservices for UNIX

Establish Virtual Printer Share Name

Add Printer on Mac OSX

Print

Configuring the Network

It is vital that the OSX machine and the PC in which your ONYX Graphics software resides can communicate. The first step in the OSX / Printservices for UNIX process involves ensuring communication across the network can occur. To do this:

1. Look up the IP addresses of both the OSX and PC machines (see Finding IP Addresses for further information).
2. Open a command prompt: Click **Start** then select *Programs, Accessories, and Command Prompt*.
*Note: You can also open a command prompt by clicking **Start** then select Run... Within the Run dialog, type: cmd and click **OK**.*
3. Ping from the PC to see if there is communication between the OSX machine and the PC. To do this, within the Command Prompt window, type: ping < IP address of OSX machine >, e.g. ping 192.138.174.359, then click **Enter**.

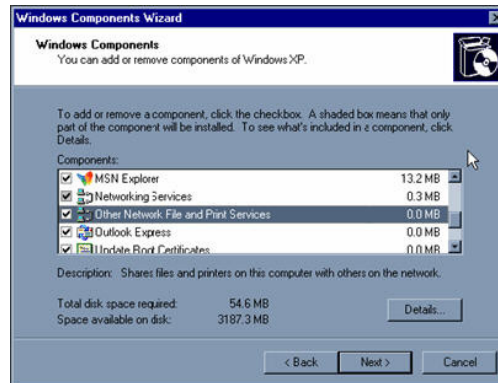
Note: The Ping utility is essentially a system administrator's tool that is used to see if a computer is operating and if the network connections are intact. Basically, a small "packet" is sent through the network to a particular IP address. The computer that sent the packet then waits (or "listens") for a return packet. If the connections are good and the target computer is up, a good return packet is sent.

If there is no communication between the PC and Mac OSX, (the ping from your PC does not receive a response) consult your network administrator for assistance.

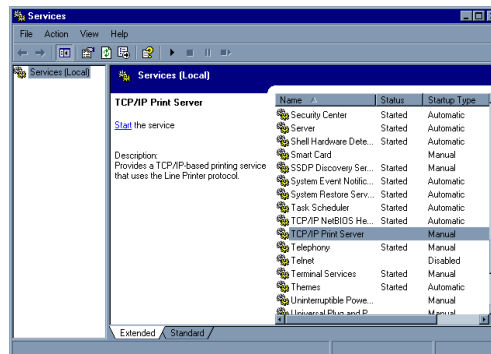
Installing Printservices for UNIX

The next step in the OSX / Printservices for UNIX process involves installing Printservices for UNIX. To do this:

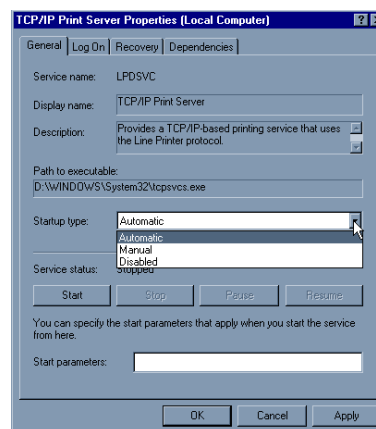
1. From the Start menu, select *Settings, Control Panel*, and *Add or Remove Programs*. The Add or Remove Programs dialog appears.
2. Click **Add/Remove Windows Components** (found on the far left of the dialog). The Windows Components dialog appears.



3. Scroll to find Other Network File and Print Services, click the checkbox to enable this setting and click **Details**. The Other Network File and Print Services dialog appears.
4. Activate Print Services for 4. UNIX and click **OK**.
5. Within the Windows Components dialog, click **Next** to configure the change.
6. From the Start menu, select *Settings, Control Panel, Administrative Tools*, then *Services*. The Services dialog appears.



7. Scroll to find TCP/IP Print Server, and then double-click it. The TCP/IP Print Server Properties dialog appears.

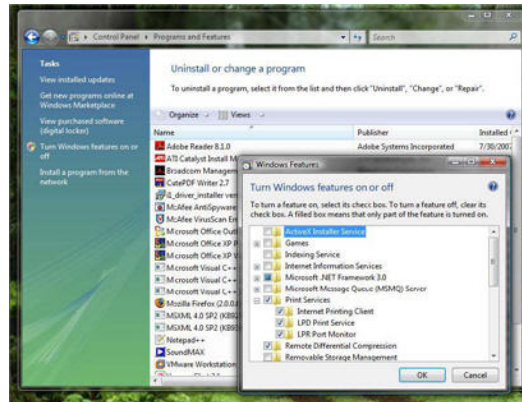


8. From the Startup Type drop-down, select *Automatic*.
9. Click **Start** to begin Printservices for UNIX.
10. During the RIP station set-up, remember to turn off the network firewall or make an exception on port 515 to use this workflow.

A Windows dialog appears starting the Printservices and then returns you to the Services dialog. Note that the Status and Startup Type for TCP/IP Print Server has changed to “Started” and “Automatic”.

Windows Vista Users

To setup a Windows Vista system to print to a Mac you must go to the Control Panel and enable LPD Print Service. To do this:



1. From the Start menu, select *Control Panel*, then select *Programs and Features*.
2. Select *Turn Windows features on or off* from the icon on the left-hand side menu.
3. In the Windows Features window, expand *Print and Document Services* and enable/check *LPD Print Service*.

You must turn on LPD Print Service for the Mac to recognize the virtual printer correctly. Enabling the LPR Port Monitor is not used with the ONYX virtual printer, but you can enable this option if it is used with other applications.

Establishing the Virtual Printer Share Name

A Virtual Printer is a RIP-Queue printer that is used as a Windows printer. When you install a RIP-Queue printer, RIP-Queue automatically creates a Windows printer in the Windows Operating System. When you print a job to that Windows printer, it sends the job to RIP-Queue for processing and printing. You may use any application to print to a virtual printer: graphic design programs, word processors, Internet browsers, etc. When RIP-Queue creates a virtual printer, it automatically shares the printer on the network. This means that any computer on the network, Windows or Macintosh, can print from any application to the virtual printer.

The next step in the OSX / Printservices for UNIX process involves creating a share name for the ONYX Graphics virtual printer.

This allows you to easily recognize the virtual printer when working from your Mac. To establish the share name for the virtual printer:

1. From the Start menu, select *Settings*, then *Printers and Faxes*.
2. Right-click on the ONYX Virtual printer and select *Sharing...*
3. Within the Virtual Printer Properties dialog, write down the name located in the Share Name field.

Note: You can change the Share Name if the current Share Name is too complicated or too long.

Adding the Printer on the Mac OSX

The final step in the OSX / Printservices for UNIX process involves adding the printer to the Mac OSX. To do this:

Mac OSX v10-10.4

1. On your PC, copy the PPD located in the root directory where ONYX is installed. For example: C:\Onyx\Server\PPD\Mac.
2. Paste the PPD on your Mac in a known location or on the hard drive. Some graphic applications such as Quark Xpress require the PPD to be in a specific folder. To place the PPD in the correct location, go to your Mac hard drive and select *Library > Printers > PPDs > Contents > Resources*, then select appropriate language for folder. (For example, choose En.LPROJ for English.)
3. On your Mac, open the Printer Utility. To do this, use the Finder to select the Go menu. Then select *Utilities > Printer > Setup Utility*.
4. Add a new printer and select IP Printing. Set the following options:
 - Printer Type: LDP/LPR, select this option for the printer port.
 - Printer Address: Make sure to enter the actual IP address of the RIP station, not the IP address of the physical printer.
 - Queue Name: choose the Shared Name of your virtual printer.
 - Printer Model: from the drop-down list select *Other*. Then go to the folder where you placed the PPD (this is the PPD you copied and pasted in steps 1 and 2).

Note: Any other selections on the Printer Utility dialog are optional.

Mac OSX v10.5

1. On your PC, copy the PPD located in the root directory where ONYX is installed. For example: C:\Onyx\Server\PPD\Mac.
2. Paste the PPD on your Mac in a known location or on the hard drive. Some graphic applications such as Quark Xpress require the PPD to be in a specific folder. To place the PPD in the correct location, go to your Mac hard drive and select *Library > Printers > PPDs > Contents > Resources*, then select appropriate language for folder. (For example, choose En.LPROJ for English.)
3. Open the Printer Utility. Go to System Preferences (the button that looks like a gear) and click *Print and Fax*.
4. Add a new printer by clicking the plus mark and set the following:
 - Select IP Printing if it is not already set. IP Printing is set as the default.
 - Printer Protocol: LDP/LPR, select this option for the printer port.
 - Printer Address: Here you want to enter the actual IP address of the RIP station and not the IP address of the physical printer.
 - Queue Name: choose the Shared Name of your virtual printer.
 - Print Using: from the drop-down list choose *Other*. Then go to the folder where you placed the PPD (this is the PPD you copied and pasted in steps 1 and 2).
5. Click *Add* after you have set all your options.

Printing

Now that you have established communication between your PC and Mac OSX, installed Printservices for UNIX, established a share name for the virtual printer, and added the printer onto your Mac OSX, you can finally print to your ONYX Workflow software via your OSX machine.

Finding IP Addresses

An IP (Internet Protocol) address consists of four decimal numbers in the range of 0-255 separated by dots, such as 62.253.135.65. When you connect to a network, your PC/Mac may automatically issue a unique IP address.

To locate your computer's IP address:

PC

1. Open a command prompt window (Select Start, Programs, Accessories, then Command Prompt).
2. Type: ipconfig
3. Press Enter, then look for the output section that specifically says "IP Address".

Mac OSX

1. Pull down the Apple menu and select System Preferences.
2. Select Network.
3. Locate the IP Address line.