



RICOH Printing Systems DDP Server

DDP Server

User's Guide

Read and keep this manual.

- Read safety instructions carefully and understand them before starting your operation.
- Keep this manual at hand for reference.

SOFHA GmbH
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Revision History

Manual Rev.	SSW Rev.	Pages: Text	Date
1.1	1.1	First version	2003 Apr 16
1.2	1.2	<p>P v: Updated the battery list.</p> <p>P 8: Described default fixed network configuration.</p> <p>P 15: Adjusted description of Printer Installer.</p> <p>P 17: Added note about digital signature. Adjusted description of printer installation.</p> <p>P 23: Described installation under Mac OS X.</p> <p>P 24: Described installation of printer fonts.</p> <p>P 33: Described hot folders.</p> <p>P 35: Added hint about SMAP / Carbonlib.</p> <p>P 54: Added Spanish and Italian to CE declaration.</p> <p>P 55: Added various glossary entries.</p>	2004 Aug 10
2.0	2.0	P i: Added OEM version.	2004 Nov 30
2.1	2.1	P 12: Deleted hint about launching the .msi file.	2004 Dec 10
2.2	2.2	<p>P 6: Added hint about power cycle.</p> <p>P 8: Described engine IP addresses.</p> <p>P 17: Described setting of installable options in the printer driver.</p> <p>P 23: Adjusted descr. of installation under Mac OS X.</p> <p>P 58: Added CE declaration for ProfiRIP CM.</p>	2005 Jun 09
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3.0	3.0	<p>P iii: Added revision history.</p> <p>P vii: Deleted the ProfiRIP CM battery warnings and list.</p> <p>P 1 ff: Updated the photos to FB12M.</p> <p>P 2: Described the dongle.</p> <p>P 2, 9: Mentioned the documentation CD</p> <p>P 2 ff: Updated the hardware description to FB12M.</p> <p>P 4 ff: Added 1000BaseT support.</p> <p>P 5: Updated the list of supported accessories.</p> <p>P 7: Simplified the description of printing the Settings page.</p> <p>P 8: Deleted Factory Defaults as separate function.</p>	2006 Mar

Manual Rev.	SSW Rev.	Pages: Text	Date
		Mentioned the console application for Init Disk. P 9: Updated the CD folder screenshot. P 9 ff: Added Windows 2003 Server as supported OS. P 42: Added system events for the dongle and for feature upgrades. P 58 ff: Deleted CE declarations.	
3.1	3.0	P vi: Added safety warning about front bezel	2006 May 16
3.1.1	3.0	P vi: Power supply switch cover installation P 4: Power supply switch cover installation P 5: Power supply switch cover installation	2007 Oct 23
3.1.2	3.1	P8: Added description of Initialize Disk P9: Added Windows Vista P36: Added description of PDF file P50: Added Precautions	2008 Feb 1
3.1.3	3.1	P5: Finisher name changed P9: Remove Win98, ME and WinNT4 P14: Remove description note of Win NT Server P15: Remove description Windows P17: Change the drawing P19: Change and remove the drawing P20: Remove the drawing P22: Change the drawing P29: Remove the drawing and description	2008 Apr 1
3.1.4	3.1	P9: changed Image for CD tree P11: changed image for start application	2008 Apr 21
3.1.5	3.1	P9: changed Image for CD tree P10: deleted mentioning of the start application P11: deleted image for start application P11: inserted list of software to install	2008 May 22
3.1.6	3.1	P v: Added user information on electrical & electronic equipment P vii: Added note for the battery and/or accumulator symbol	2008 June 06
3.1.7	3.1	P9: Changed Image for CD tree P15: Updated Windows Printer Driver Installation incl.. Installable Options P18: Updated Mac OS X Printer Driver Installation incl.. Installable Options P26: Updated Windows printing P28: Updated Mac OS X printing	2008 Aug 28
3.1.8	3.1	P19: added note about using AppleTalk	2008 Nov 07
3.1.9	3.1	P:33 Direct printing on Mac OS X	2008 Dec 01

User Information on Electrical & Electronic Equipment

Users in the EU, Switzerland and Norway

Our Products contain high quality components and are designed to facilitate recycling. Our products or product packaging are marked with the symbol below.



The symbol indicates that the product must not be treated as municipal waste. It must be disposed of separately via the appropriate return and collection systems available. By following these instructions you ensure that this product is treated correctly and help to reduce potential impacts on the environment and human health, which could otherwise result from inappropriate handling. Recycling of products helps to conserve natural resources and protect the environment.

For more detailed information on collection and recycling systems for this product, please contact the shop where you purchased it, your local dealer or sales/service representatives.

All Other Users

If you wish to discard this product, please contact your local authorities, the shop where you bought this product, your local dealer or sales/service representatives.

Note for the Battery and/or Accumulator Symbol

Users in the EU



In accordance with the Battery Directive 2006/66/EC Article 20 Information for end-users Annex II, the above symbol is printed on batteries and accumulators. This symbol means that in the European Union, used batteries and accumulators should be disposed of separately from your household waste. In the EU, there are separate collection systems for not only used electrical and electronic products but also batteries and accumulators. Please dispose of them correctly at your local community waste collection/recycling center.

Safety Summary

The hazard warnings which appear on the warning labels on the machine or in the manual have one of the following alert headings consisting of an alert symbol and a signal word, DANGER, WARNING, or CAUTION.



This is the safety alert symbol. It is used to alert you to potential personal Injury hazards. Obey all safety messages that follow this symbol to avoid possible Injury or death.



DANGER:

indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



WARNING:

indicated a potentially hazardous situation which, if not avoided, can result in death or serious injury.



CAUTION:

indicates a hazardous situation which, if not avoided, will or can result in minor or moderate injury, or serious damage of product.

CAUTION:

Indicates a potentially hazardous situation which, If not avoided, may result in property damage.

General Safety Guidelines

Before operating the machine, read the following instructions carefully:

- Follow all the operating procedures provided in this manual.
- Pay special attention to and follow all the hazard warnings on the machine and in the manual. Failure to do so can cause injury to yourself or damage to the machine.
- Do not perform any operation or action in any way other than as provided in this manual. When in doubt, call the designated field engineer.
- Keep in mind that the hazard warnings in this manual or on the machine cannot cover every possible case, as it is impossible to predict and evaluate all circumstances beforehand.

Be alert and use your common sense.

Safety Precautions

To avoid an electric shock, personal injury and/or damage of the DDP Server carefully observe the following safety precautions:

 *WARNING: Check the Supply Voltage*

Check the local supply voltage *before* plugging the DDP Server power cord into the electrical outlet. If the supply voltage does not match the range which is indicated on the rating label, do not connect the DDP Server to the mains supply and contact your local dealer for support.

 *WARNING: Do Not Open the Enclosure*

The DDP Server enclosure may not be opened except by a qualified service technician. The service technician must unplug the mains supply before opening the enclosure.

 *WARNING: Connect the Network Ports Properly*

The network ports are intended for connecting the DDP Server to an Ethernet network and to the front and rear engines only. Do not attempt to connect any of the network ports to a telecommunication network, i.e. to a telephone line.

 *CAUTION: Keep Mobile Phones Away*

Do not operate a mobile phone close to the DDP Server. It may disturb proper operation of the DDP Server.

 *WARNING: Use DDP Server with closed front bezel*

Use DDP Server with closed front bezel by all means. Do not connect the power chord without closed front bezel.

Preface

Welcome to DDP Server!

DDP Server is a hardware / software system for efficient printing in the network office environment. It consists of:

- ProfiRIP – a controller which turns a DDP184 into a network ready printer
- SOFHA DocuFLOW – Print on Demand features like custom queues, archive jobs, job merging, and load balancing.
- ProfiNET – the networking features that enable the network communication between the user's computer and DDP Server
- ProfiWEB – the Internet features such as Internet printing and web management
- Printer Driver – a printer driver providing advanced printing capabilities including imposition and forms overlay in an intuitive graphical user interface
- Printer Installer – a Windows utility for easy installation of multiple printers
- SMAP – an application for direct printing of PostScript, PDF, PCL, TIFF, and ASCII files
- DocXPLOERER – a monitoring and control application for managing multiple DDP Servers in a network
- Database Print Manager – a variable data printing application for efficiently printing a template document with records from a database

About this manual

The following manuals are provided for DDP Server:

- DDP Server User's Guide (this manual). It contains information about:
 - Hardware setup
 - Software installation and setup
 - Basic description of printing
 - Basic description of controller and job management
 - Overview of DDP Server applications
- Printer Driver Plug-in Reference Guide – describes how to use the DDP Server printing and finishing features
- ProfiWeb Reference Guide – describes controller and job management using the web browser
- DocXPLOERER Reference Guide – describes controller and job management using DocXPLOERER
- Database Print Manager Reference Guide – describes variable data printing using Database Print Manager

The reference guides are stored in machine readable form (PDF format) on the DDP Server Documentation CD-ROM. You may print them for use with your DDP Server.

The following additional information is available:

- Adobe PS printer driver help – this can be called from the printer driver

The following conventions are used in this manual:

- User interface elements, like window captions, menu elements, buttons are denoted in this style.
- Some user interface elements are denoted by a path like RIP details » General » Others may see job details. In expressions like this, the single elements describe the menu (optional), the menu element, the tab sheet in the dialog, and the button or field label.

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Hardware Installation

Package Contents

The DDP Server ships in a box which contains the DDP Server and some accessories.

Do not unpack the DDP Server before it has the same temperature as its environment. If the DDP Server was exposed to extreme temperature conditions, wait a few hours before opening the plastic bag. Otherwise water may condense and damage electronic components inside the DDP Server.

Keep all packaging materials. Always use the original packaging for storage or transportation of the DDP Server.



Package contents

When unpacking the DDP Server, use the packing list below to check if all parts listed are contained in the package:

- DDP Server – the controller, ready to use
- Power cord – to connect the DDP Server to a power outlet
- 2 Ethernet cables with color markings – to connect the DDP Server to the front (red) and rear (blue) engines of the DDP184
- CD-ROM – containing driver and management software for DDP Server
- Dongle – software protection key configuring and enabling the function of DDP Server
- User's Guide – this manual

Hardware Overview

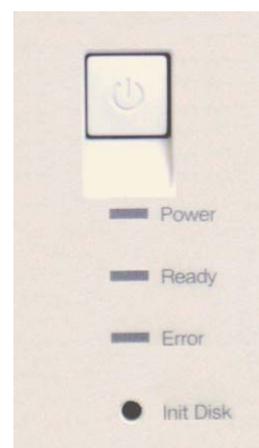
The DDP Server is essentially controlled from the network. Nonetheless, three control lights are provided on an operator panel at the front. They are useful to control the basic operation of the DDP Server. The operator panel also contains the Power button for switching the DDP Server on or off.

Furthermore, a small button is provided at the front for special functions. This is only needed for setup and maintenance purposes.

For saving energy while the DDP Server is not used, DDP Server provides an additional power switch at the rear.



DDP Server front side



Front side elements

The elements on the front side have the following functions:

- Standby button: This button allows you to power on or shut down the DDP Server.

To power on or shut down the DDP Server, press this button shortly. A regular shut down includes closing the job and queue database.

When the DDP Server is running, you may force power down by holding the standby button for more than 4 seconds. However, you should force power-down only if the DDP Server does not react otherwise, as in this way the database is not closed and loss of the stored data may result. For the same reason, do not switch off the DDP Server by means of the power switch at the rear before performing a regular shutdown using the standby button.

- READY control light (green) with the following meanings:

Constant – DDP Server is idle

Blinking – DDP Server is busy

- ERROR control light (yellow) with the following meanings:

Constant – data transfer to printer

The following special states are also shown by the control lights:

DDP Server Initialisation – both blinking

DDP Server Shutdown – both constant

-  CAUTION: INIT DISK button () – this button allows you to re-initialize the DDP Server database. This function should be used only by the DDP Server administrator and only with special care, as it deletes all job and queue data on the DDP Server.

To re-initialize the database hold the Init Disk button while the DDP Server is booting until the **Ready** and **Error** LEDs start fast blinking. Then release the Init Disk button.

Initializing the DDP Server database using the Init Disk button is equivalent to executing the **Initialize Disk** function described below.

If the Init Disk button is pressed during normal operation of the DDP Server, it prints the self test page.



DDP Server rear side



DDP Server connectors

The elements on the rear side have the following functions:

- Power switch – this switch disconnects the power supply’s standby circuitry from mains and therefore saves energy while the DDP Server is not used.
 - ⚠ **CAUTION:** Never switch off the DDP Server by means of the power switch before performing a regular shutdown using the Power button. Otherwise the database is not closed and loss of the stored data may result.
- Ethernet interfaces – to connect the DDP Server to an Ethernet network and to the DDP184 engines. The data rate will automatically be adjusted to 10 Mbit/s, or 100 Mbit/s, depending on the network capabilities. Control lights are provided for activity/link status and 10/100 data rate.

The DDP Server has three Ethernet interfaces:

-  (at the DDP Server’s main board) to connect the DDP Server to the client network
-  (red) to connect the DDP Server to the front engine
-  (blue) to connect the DDP Server to the rear engine

Please refer to „Cable Connections“ in this manual for further details.

- USB interface – to connect the DDP Server dongle. The dongle must be connected while the DDP Server is running. If the dongle is not connected, the DDP Server will not print user jobs.

Supported Devices

The following hardware is supported by the DDP Server:

- DDP184

The following optional accessory is supported:

- High capacity feeder: HCF
- Finisher: Standard Finisher, Standard Finisher 2, Booklet Finisher, Publishing Finisher
- Container stackers: CS-1, CS-2

Power cycle is required after changing the printer configuration.

Cable Connections

To setup the DDP Server for operation, connect the cables as described below:

- Power – Check the local supply voltage before plugging the DDP Server power cord into the electrical outlet.
 **WARNING:** If the supply voltage does not match the range which is indicated on the rating label on the rear, do not connect the DDP Server to the mains supply and contact your local dealer for support.

If your local supply voltage matches the rating of the DDP Server, connect one end of the power cord to the DDP Server and the other end to the electrical outlet.

Note that the DDP Server will always be in standby mode, consuming a small amount of electrical power, as long as it is connected to the electrical outlet and the power switch at the rear is set to the “On” (“I”) position. If this switch is covered by metal plate to prevent misuse, it is always the “On” (“I”) position.

- Engines – Connect the DDP Server to the DDP184 engine by means of the enclosed Ethernet crosslink cables.
 **WARNING:** Do not attempt to connect any of the engine ports to a communication network (telephone line).
CAUTION: Do not use other crosslink cables than those which are supplied with the DDP Server. Failure to do so may result in increased EMI emission which may interfere with other electronic equipment.

Connect the Ethernet outlet with red marking to the front engine.

Connect the Ethernet outlet with blue marking to the rear engine.

- Network – Use a Cat. 5e/6 Ethernet patch (or drop) cable to connect the DDP Server to a 1000BaseT (1000 MBit/s), 100BaseTX (100 Mbit/s) or 10BaseT (10 Mbit/s) Ethernet network. Such cables have a „Cat. 5e“ or “Cat.6” marking and RJ-45 connectors at each end.

Connect the Ethernet outlet labeled with a network symbol (☐☐) to the network.

⚠ WARNING: Do not attempt to connect the Ethernet port to a communication network (telephone line).

Pay attention to the fundamental rules of Ethernet cabling, such as star topology, maximum cable length and limited number of hubs/switches/routers.

The smallest possible Ethernet network consists of only two stations: the DDP Server and a computer. In this case, the hub may be replaced by a special „crosslink“ cable which directly links the DDP Server with the computer. In case of a direct connection, the receive and transmit wire pairs must be crossed inside the cable. Therefore, a standard patch or drop cable cannot be used.

A network cable is not included in the DDP Server package. Ethernet patch cables and crosslink cables are available from computer vendors.

DDP Server Setup and Management

Network setup

For the initial setup of the DDP Server, you must configure its **Communication settings**.

In the initial setting of DDP Server at the factory shipment, it is not configured for DHCP but the following IP Address is assigned.

Initial IP Address : **192.0.0.192**

When DHCP needs to be configured at the time of installation, perform “Initialize Disk” described in the next section. By initializing disk, the DDP Server is configured for DHCP, a protocol which allows to assign network settings to network devices from a DHCP server.

If you want the DDP Server to use DHCP, your network must contain an appropriately configured DHCP server.

If you do not have a DHCP server in your network, you can assign network settings to the DDP Server using the built-in “quick” DHCP Server of DocXPLOER. See DocXPLOER Reference Guide.

To check the network settings, you can print the settings page. While the DDP Server is running (after booting is completed), press the Init Disk button of the DDP Server.

After setting up communications settings, you can manage the DDP Server using DocXPLOER or the ProfiWEB interface.

By default, the front engine has the IP address 10.0.1.1 and is directly connected to the network card at the DDP Server with the IP address 10.0.1.2. The rear engine has the IP address 10.0.2.1 and is directly connected to the network card at the DDP Server with the IP address 10.0.2.2. Both of these subnets have the subnet mask 255.255.255.0.

Problem handling: Initialize Disk

If the DDP Server shows severe problems (does not boot), you can re-initialize the DDP Server's hard disk. This function clears the job and queue database.

 **CAUTION:** This function should be used only to recover from severe problems and only by the administrator of the DDP Server. Jobs and queues or lost during this function.

To re-initialize the database, press and hold the Init Disk button while the DDP Server is booting until the **Ready** and **Error** LEDs start fast blinking. Then release the Init Disk button.

This performs the Initialize Disk function consisting of following details:

- Reset communication settings

The DHCP setting is reset to ON. Therefore, an IP address and other settings of the network will be initialized. Please refer to the "DHCP Server" section of the "DocXPLOER reference" for details of the method of setting the IP address.

All jobs including registered jobs in the Form queue and the Archive queue will be deleted.

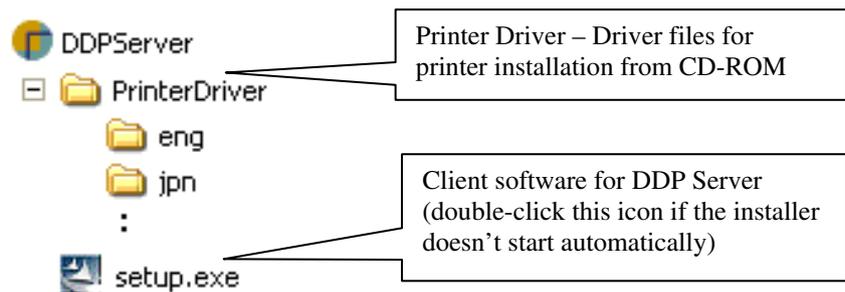
 **CAUTION:** The **Initialize Disk** function performs several reboots. Do not power off the DDP Server during this period, as it may render the DDP Server unusable.

Software Installation

CD Contents

The DDP Server client software is delivered on a hybrid Windows and Macintosh CD-ROM.

The contents and folder structure of the CD-ROM is shown in the graphics below.



The DDP Server User's Guide is stored as a PDF file in the DDP Server Documentation CD. You may print it for use with the DDP Server. For printing a PDF file you need Adobe Acrobat Reader which is available from <http://www.adobe.com>.

Windows printer drivers are contained in the corresponding folders for each language. If you want to install only Windows printers, you can choose the printer files directly from the CD-ROM. In this way you will not need to reboot your PC.

Installing the DDP Server Software

The software on the CD-ROM is localized in several languages.

Launch the corresponding installer from the CD root (Windows) or from the language folders (Macintosh) to get the software installed in your language. Follow the installation instructions.

The installer installs the following software on your computer:

- Printer Installer (Windows only) – supports easy installation of several Windows printers at a time
- SMAP – direct printing of PostScript, PDF, PCL, and TIFF files.
- DocXPLOERER – a monitoring and control application for managing multiple DDP Servers in a network
- Database Print Manager – a variable data printing application for efficiently printing a template document with records from a database

The printer driver software consists of the Adobe PostScript printer driver, the PCL printer driver (Windows only), and a plug-in which provides specific functions for DDP Server with a graphical user interface.

For Windows, the printer driver software is contained in folders ordered by language. Depending on available space, you may copy the printer driver files to your computer, or leave them on the CD-ROM. They are needed when installing a printer.

DDP Server provides a web interface (ProfiWEB) for viewing and managing the RIP status and the job and queue database. The web interface can be accessed using standard web browsers.

To uninstall the software under Windows, launch the Installer from the CD-ROM, or select **Control panel » Software » DDP Server**, and click **Remove**. The software should be uninstalled before you install a new version.

Windows

The setup is automatically launched when you insert the CD-ROM. You can also double click **setup.exe** in the root folder of the CD-ROM.

When Setup is executed, the following software is installed:

- Printer Installer
- SMAP
- DocXPLOERER
- Database Print Manager



In the Installer, select the language for the software to be installed. Then follow the instructions given by the Installer.

If you want to install Database Print Manager, please observe the following installation order:

1. Adobe Acrobat
2. DDP Server

It is important to stick to this order, because DDP Server needs to install a plugin for Adobe Acrobat. If you are warned during the installation that the corresponding folder has not been found, cancel the installation and install Adobe Acrobat. If you have installed DDP Server before Adobe Acrobat, uninstall DDP Server and install it again after installing Adobe Acrobat.

When you install Adobe Acrobat, please respect the corresponding licence conditions.

The following MS Word template is installed with DDP Server:

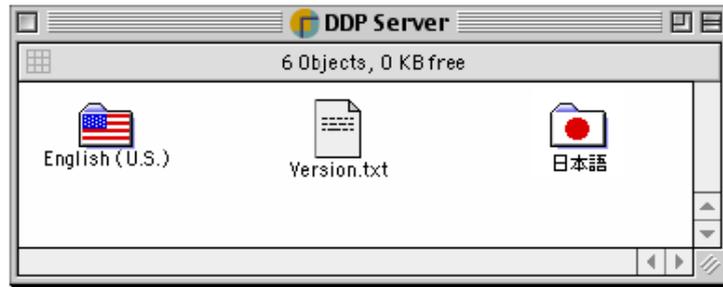
- DFL_Forms.dot – this extends the Tools menu by a function to preview forms within an MS Word document.

If this fails because you have not installed MS Word, you need not care.

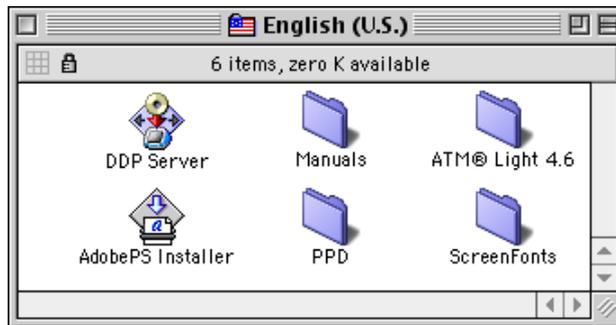
To uninstall the software, launch the Installer from the CD-ROM, or launch **Control panel » Software » DDP Server**, then select **Remove**. The software should also be uninstalled before installing a new version of the software.

Mac OS 9 (Version 2.2 only)

The CD-ROM contains one folder for each supported language.



Open the folder of your choice.



Double click the DDP Server icon to install the DDP Server software. Follow the instructions given by the Installer.

Double click the AdobePS icon to install the generic part of the Adobe PostScript driver, and follow the installation instructions.

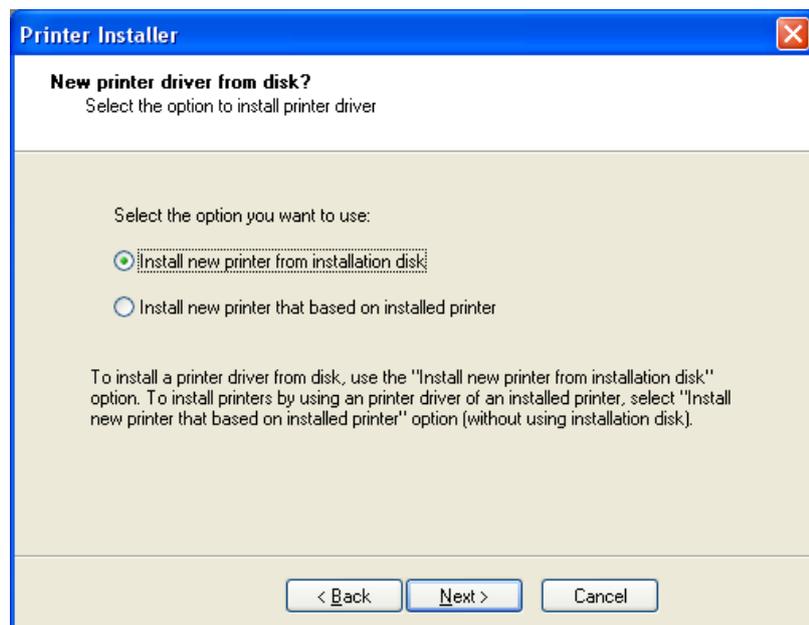
Installing the Printer Driver

Windows

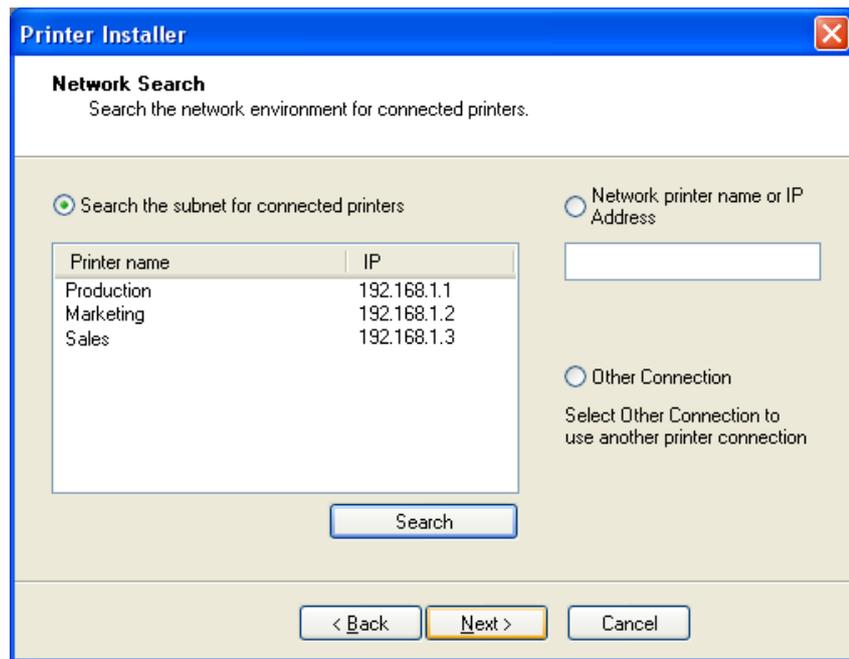
The DDP Server Printer Installer is an easy-to-use application to install Windows printers. It allows you to install several printers at a time, one for each queue defined on your DDP Server.

From the factory, the DDP Server has a Normal and a Hold queue. The administrator can add more custom queues.

Launch **Printer Installer** from the Start menu and click **Next**.



For the first installation of a DDP Server as a printer select the first option and click **Next**.



Printer Installer shows you a list of DDP Servers found in the current network segment.

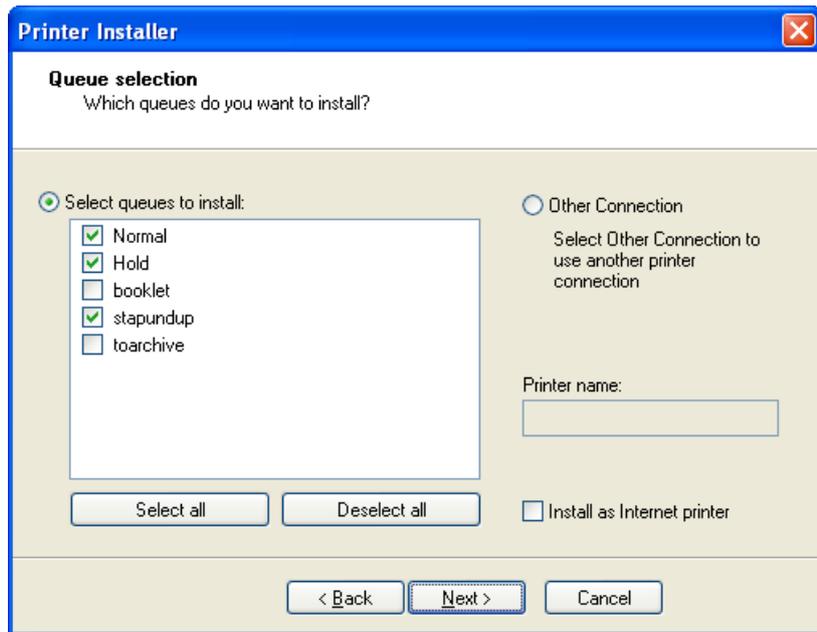
Choose one DDP Server for installation and click **Next**.

If the DDP Server is behind a gateway, you have to take one of the other options.

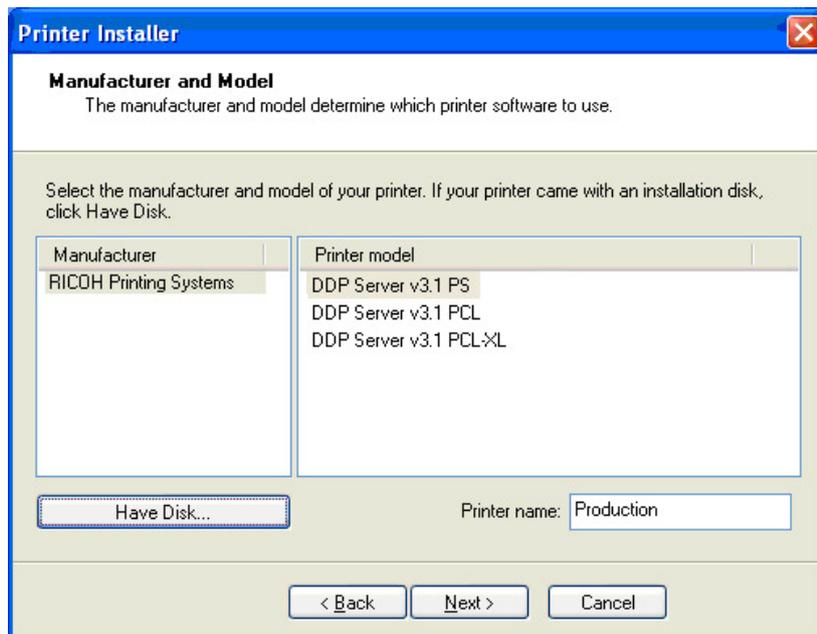
- Find a specific DDP Server by network name
- Find a specific DDP Server by IP address.
- Find a specific DDP Server queue by UNC, e.g. \\DDPServer\Normal.

Note: If your network uses DNS, the administrator should make sure that the network name assigned to the DDP Server matches the network name stored in the DNS.

If you have chosen one of the found DDP Servers for installation, Printer Installer shows you a list of queues defined on the DDP Server.



Check the boxes to select at least one queue for installation and click **Next**.



Printer Installer shows you a list of printer models to be installed. If no model is shown, click **Browse** to select an .inf file in the printer driver folder for your operating system. Select the folder corresponding to your operating system.

Select a printer model and click **Next**.

Note: During printer installation, Windows may show a warning about a missing digital signature. You should continue the installation anyway.

Note: The Printer Installation may overwrite an existing older version of the AdobePS printer driver. In general this is recommended, as AdobePS printer drivers are designed for downward compatibility. You may want to check the driver versions in the versions file on the CD-ROM.

After the printer installation, the printer can be selected from the print dialog of your application.

Alternatively to the Printer Installer, you can install a printer using the **Add Printer** function which is available in the **Start menu » Settings » Printers** dialog. When prompted for a printer model description, select the printer driver folder installed with the DDP Server software, or the printer driver folder from the CD-ROM. The Add Printer function allows you to install a printer without rebooting your PC.

Installable Options Windows

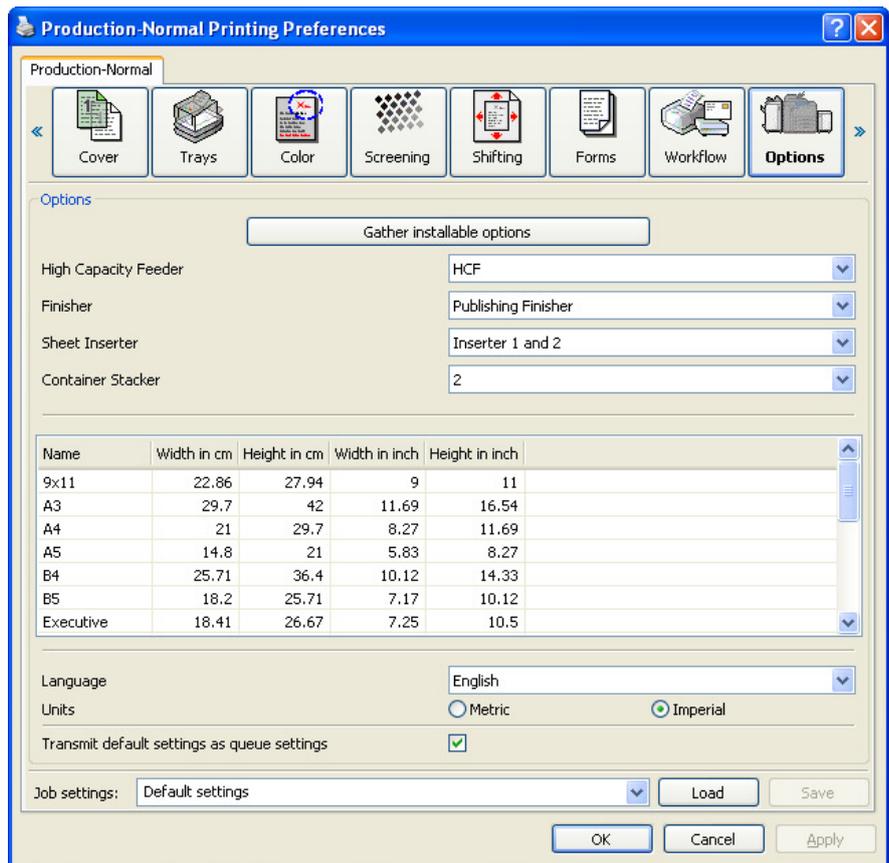
The installable options determine which optional accessories are available on your printer (e.g. Paper Source Unit). The installable options tailor the user interface of the printer driver on your PC and prevent the accidental selection of features which are not supported by the printer. To make the accessories available in the printer driver you must enable the corresponding installable options.

The installable options configuration dialog can be called from the printer driver Plug-in. In the panel **Option** you can add every available optional device by choosing from a list or activating a checkbox.

To configure the installable options,

- open the Start menu
- select **Settings**
- then select **Printers and Faxes**,
- then select **DDP Server**
- then select **Properties**.

The printer driver Plug-in will open. Click on the arrows at the right of the panel header bar to proceed to the **Options** panel:



Click **Gather installable options** to let the printer driver Plug-in auto-detect the installable options.

You may also change an option value manually. This can be used, e.g. to create jobs as PostScript files for a printer which is not currently connected to your PC and may have different options installed.

Click **OK** twice to confirm your changes.

After you have enabled the available installable options, the features corresponding to those options will be available in the printer driver.

Mac OS X 10.4 and 10.5

The DDP Server client software is delivered on a hybrid Windows and Macintosh CD-ROM. Double-click the CD-ROM icon that was automatically created after insertion of the CD.

The Mac OS X printer driver comes as an installer package containing the software for all languages.

The printer driver software consists of a PPD which defines printer properties, a printer driver Plug-in which provides advanced printing functions under a graphical user interface, and a CUPS filter which injects PostScript code generated by the Plug-in.

- Double click the **DDP Server** package icon to install the DDP Server software.
The Welcome screen is shown.
- Click on **Continue** to go to the next screen.
- After confirming another info screen, the installation process will be completed.
The installer installs the software for Mac OS X version 10.4 or 10.5.

Installing a Printer under Mac OS X 10.4

After you have installed the DDP Server specific printer driver software, you can install a printer.

To install a printer under Mac OS X 10.4, select (from the Finder)

- Go » Utilities.
- In the Utilities folder, select the **Printer Setup Utility**
- After starting, the Printer Setup Utility shows the Printer List.
- Click **Add** to find and install a new printer.
- The resulting dialog shows the list of printers found in the network.

Installing a Printer under Mac OS X 10.5

To install a printer under Mac OS X 10.5, select (from the Finder)

- Go » Applications » System Preferences
- In System Preferences select **Print & Fax**
- In Print & Fax, the Printer List is shown.
- Click the **+** button to find and install a new printer.
- The resulting dialog shows the list of printers found in the network.

For Mac OS X 10.4 and 10.5 please note: Your printer must be available in the network for installation.

When you use AppleTalk, it is necessary to match the IP address segment specified with the Subnet Mask to the personal computer by the DDP server.

Mac OS X 10.4 and 10.5: Select a **protocol**, e.g. AppleTalk, from the first popup. If zones are enabled in your network, select an AppleTalk zone from the second popup.

Select the printer for your desired queue. (Do not install the printer for the direct queue for normal printing as the direct queue is intended mainly for font downloading.)

Select **Printer Model** = DDP Server, then select DDP Server as the PPD.

If the PPD is not found, select Printer Model = Other ..., then browse to
`/Library/Printers/PPDs/Contents/Resources/en.lproj/`

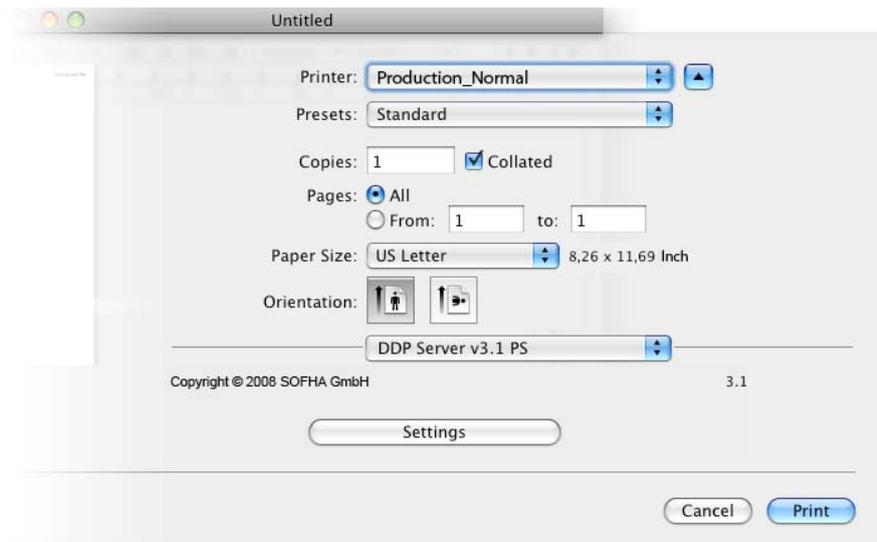
and select SHPS_*1B.PPD

Click **Add** to make the printer available in your list of printers.

Installable Options Mac OS X 10.4 and 10.5

The installable options tailor the user interface of the printer driver on your Mac and prevent the accidental selection of features which are not supported by the printer. The installable options determine which optional accessories are available at your engine (e.g. High Capacity Feeder or Finisher). To make the accessories available in the printer driver you must enable the corresponding installable options.

To configure the installable options, open the print dialog of your document's application and select your Printer. Then select in the last (unlabeled) dropdown-menu DDP Server.



By clicking the **Settings** button, you access the printer driver Plug-in.

To access the installable options, click on the arrows right of the panel header bar to proceed to the panel **Options**.

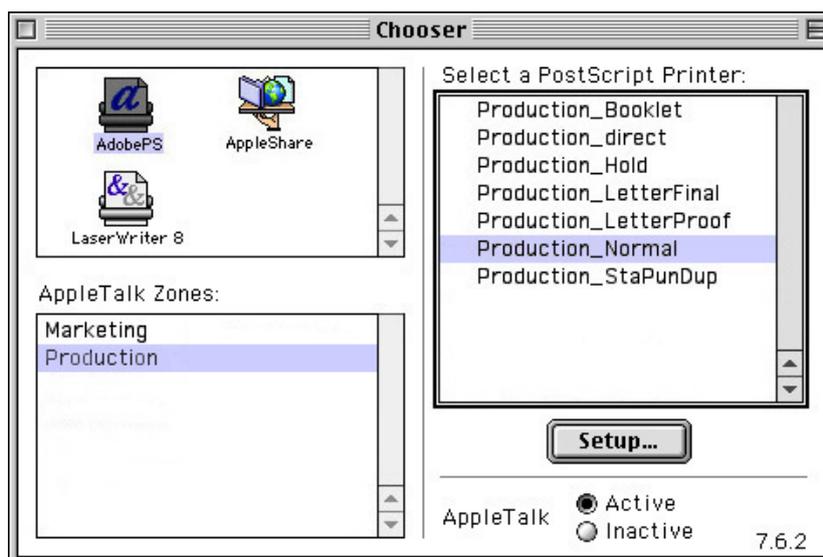
To configure installable options, please see the Windows section for installable options.

Installation Mac OS 9 (Version 2.2 only)

Before you can install a printer, you must install the Adobe printer driver software. To install the Adobe printer driver software, launch the **AdobePS Installer**. Then follow the installation instructions.

The AdobePS Installer installs only the generic Adobe printer driver. The DDP Server specific printer driver software (PPD and plug-in) is installed by the **DDP Server Installer**. Before you can install a printer you must have installed both AdobePS and DDP Server.

To install a printer, open the **Chooser** and select **AdobePS**. If zones are enabled in your network, select the zone entered for your DDP Server. The list of found PostScript printers shows one printer for each queue defined on your DDP Server – at least Normal and Hold. The printer names are made up from the network name of the DDP Server and the queue name.



Select a printer from the list of PostScript printers and click **Create**. This will create a desktop printer for the selected DDP Server queue.

The printer installation automatically selects a PPD matching the DDP Server. If you are prompted for a PPD, you may not have installed the DDP Server specific printer driver software before. In this case, install the DDP Server software, then install the desktop printer.

Note: Do not create a desktop printer for the Direct queue of the DDP Server. It should be used only for font downloading.

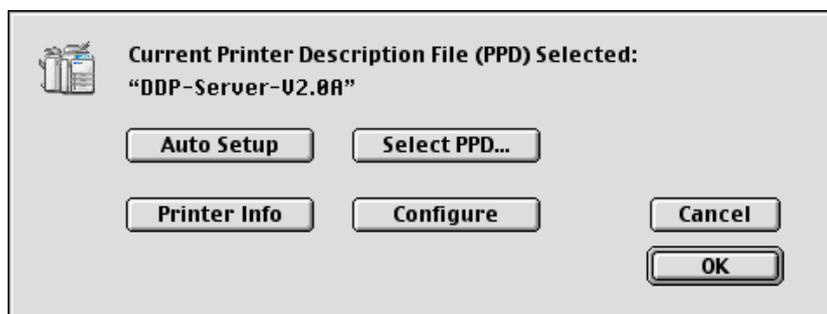
Installable Options Mac OS 9 (Version 2.2 only)

You may want to edit the printer's installable options. The installable options tailor the user interface of the printer driver on your Macintosh and prevent the selection of attributes which are not supported by the DDP Server. The installable options determine which optional accessories are available (high capacity feder, sheet feeder, finisher). To make the optional accessories available in the printer driver plugin you must enable the corresponding installable options.

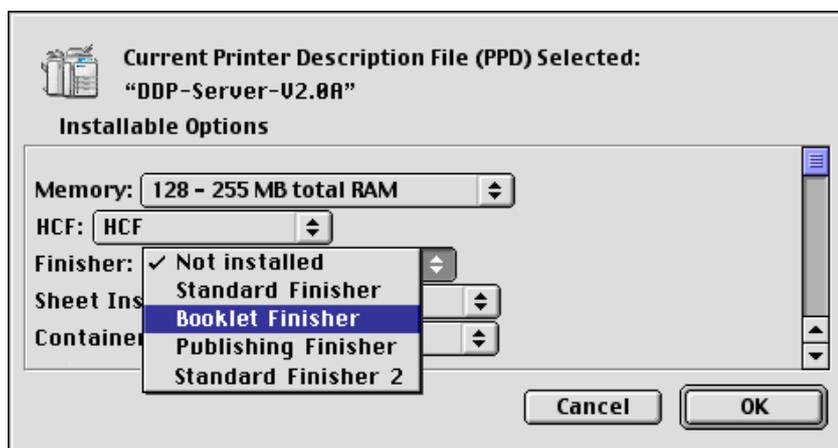
The installable options are determined automatically during printer installation.

To create jobs for a DDP Server with other options installed, e.g., in a master-client configuration, you may also configure the installable options in the printer driver manually.

To edit the installable options, select the printer in the **Chooser**, and click **Setup**.



In the Setup dialog, click **Configure**. This allows you to change the installable options.



To auto-detect the installable options, click **Auto Setup** in the Setup dialog.

Installation under Mac OS X 10.2 and 10.3 (Version 2.2 only)

The printer driver plug-in can be used for printing in Mac OS 9 or in the Classic Environment of Mac OS X. To print from native Mac OS X applications, however, only the DDP Server PPD can be used.

To start the Classic Environment, select **System Preferences » Classic » Start**. In the **Classic** control panel, activate **Show Classic status in menu bar**. This shows an icon shaped like a “9” on the right side of the menu bar. To open the chooser, select **9 » Apple Menu Items » Chooser**.

If the Classic Environment is running, you can install and configure a printer using the AdobePS driver and the DDP Server

specific printer driver software as described above for Mac OS 9. This will allow you to print from applications running in the Classic Environment of Mac OS X and to use the printer driver plug-in.

You can recognize an application running in the Classic Environment by the Apple menu being shown by the rainbow colored Apple icon.

Mac OS X 10.2 has a system utility called **Print Center**, located in the Utilities folder of the Applications folder. With Mac OS X 10.3, its name changed to **Printer Setup Utility**. The following text uses the term **Printer Setup Utility** for both.

To install a printer in Mac OS X (10.2 or 10.3) native mode, open **Printer Setup Utility**, select **Add printer**.

In the Add Printer dialog, select **Connection by AppleTalk**, select the AppleTalk zone and the printer.

Select **Printer model » Other ...**.

In the Choose file dialog, choose the DDP Server PPD.

Click **OK** to confirm the PPD.

Click **Add** to install the printer.

This will allow you to print.

Printers installed using Printer Setup Utility do not work with the printer driver plug-in, you must select options from the PPD driven part of the driver.

To configure the installable options of a printer, open **Printer Setup Utility**.

This shows you the list of installed printers.

Select **Printer » Show info**.

In the info dialog, select **Installable options**.

This allows you to change the installable options.

Installing Printer Fonts

PostScript Fonts can be installed on the DDP Server using DocXPLOER. See the DocXPLOER Reference Guide.

Note: If you use a vendor supplied font downloader on the Macintosh, download fonts only to the Direct Queue of the DDP Server. Do not use the print queues of the DDP Server (Normal, Hold etc.) for downloading fonts.

Using DDP Server

Printing

After a document has been created in an application, it can be printed on a DDP Server. For transmission to the DDP Server, the document is converted to PostScript, a page description language with powerful features to represent text, graphics and image elements in print ready format, or to PCL, a simpler page description language (Windows only).

Most layout applications contain a document setup or page setup dialog where the size, orientation, and margins of the document pages can be determined.

Printing the document is initiated in the Print dialog, which calls the Printer Driver to generate a PostScript or PCL data stream, the job. The PostScript or PCL data stream represents the elements on the document pages. It is amended by detailed instructions for processing, the job ticket.

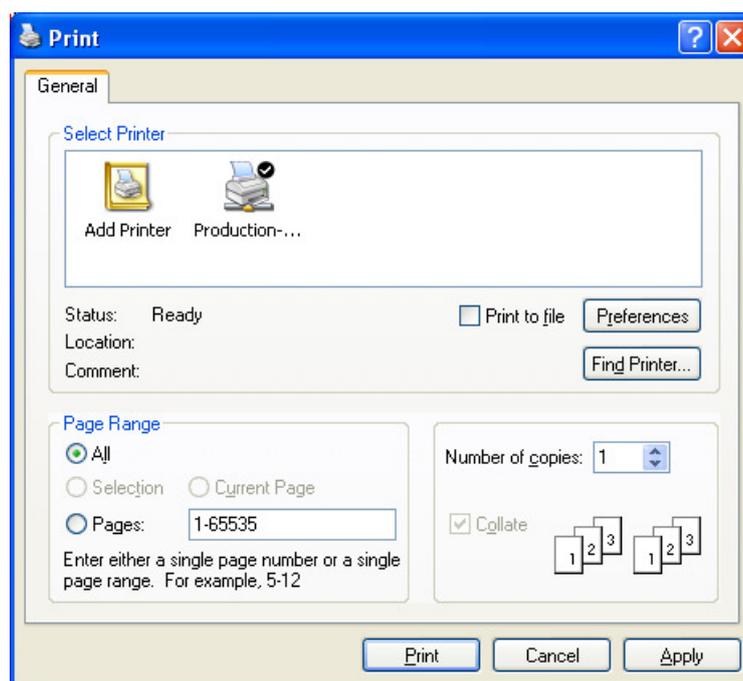
The job ticket is set up partly in the printer driver, partly in the DDP Server plug-in for the driver. The job ticket contains information like page size and orientation, number of copies, tray selection, imposition and finishing modes, overlay and email notification.

Once created, the job is sent to a queue on the DDP Server. A DDP Server contains at least two queues, the Normal queue for spooling and printing jobs, and the Hold queue where jobs can be stored for later retrieval. Additional queues with custom settings can be defined by the administrator. A queue on the DDP Server is represented by a printer on Windows or a desktop printer on Macintosh.

Windows

Before you can print a document, you must determine its size and orientation. Usually, the size and orientation of a newly created document are determined as A4 or Letter and portrait. You can change size and orientation, e.g. in MS Word, in the **Page Setup** dialog, in the **Paper Format** panel.

To print a document, select the Print dialog, usually by **File » Print**.

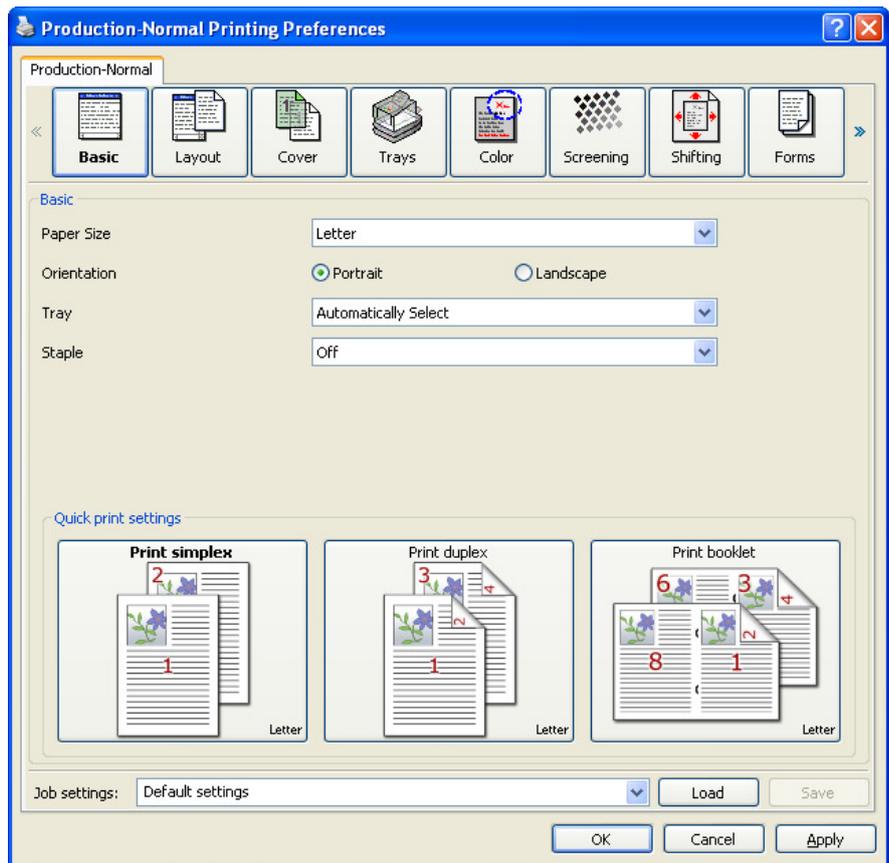


The **Print** dialog may look differently in different applications. Usually you can select at least the following options:

- The Windows printer which corresponds to the target queue on the DDP Server
- The range of pages to be printed
- The number of copies to be printed

Some applications like MS Word offer a Collate option. Do not check this option to get sorted sets of documents, as it will produce them in a more inefficient way.

To call the printer driver plug-in from the **Print** dialog, click on the **Properties** button.



The **DDP Server** printer driver plug-in allows you to determine the following options:

- Basic – provides the most frequently used functions.
- Layout – this comprises imposition (e.g. booklet) and finishing options.
- Cover sheet – select front and back cover sheets.
- Trays – select trays for individual job pages.
- Color – select color separation parameters.
- Screening – this comprises raster frequency and angle.
- Image shifting – this allows you to position a document on paper which is bigger than the document.
- Forms – select forms for overlay printing.
- Workflow – this comprises creation of forms and archive jobs, job delegation and splitting settings, and email notification.
- Options – this allows you to configure installable options.

For more details about the printer driver plug-in, refer to the Printer Driver Plug-in Reference Guide.

Mac OS X 10.4 and 10.5

After a document has been created in an application, it can be printed on a printer.

Printing the document is initiated in the Print dialog, which calls the printer driver to generate a PostScript data stream, the job. The data stream represents the elements on the document pages. It is amended by detailed instructions for processing, the job ticket. The job ticket contains information like page size and orientation, number of copies, tray selection, imposition and finishing modes.

- To print a document, select **Print** from the menu of your application.
- In the print dialog please select your Printer and in the last (unlabeled) dropdown-menu DDP Server.

Note: Please do not use any other options (e.g. Layout, Paper Handling, Paper Feed, etc.) provided in this dialog, but **only** the one in the printer driver plug-in.

To call the printer driver plug-in from the **Print** dialog, click on the **Settings** button.

The **DDP Server** printer driver plug-in allows you to determine the following options:

- Basic – provides the most frequently used functions.
- Layout – this comprises imposition (e.g. booklet) and finishing options.
- Cover sheet – select front and back cover sheets.
- Trays – select trays for individual job pages.
- Color – select color separation parameters.
- Screening – this comprises raster frequency and angle.
- Image shifting – this allows you to position a document on paper which is bigger than the document.
- Forms – select forms for overlay printing.
- Workflow – this comprises creation of forms and archive jobs, job delegation and splitting settings, and email notification.
- Options – this allows you to configure installable options.

For more details about the printer driver plug-in, refer to the Printer Driver Plug-in Reference Guide.

From **PDF** scroll-down menu you can select the following options:

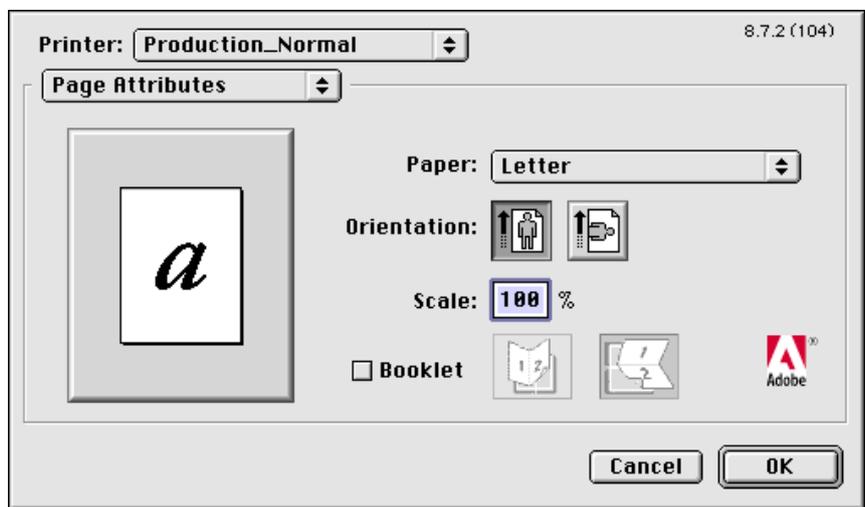
- **Save as File** – allows you to print your job to a file (as PDF or as PostScript) and let it be printed on a copier to which you are not connected now.

Note: When you print to a PostScript file, code for some features of the Plug-in will not be included in the job because the CUPS filter will not run.

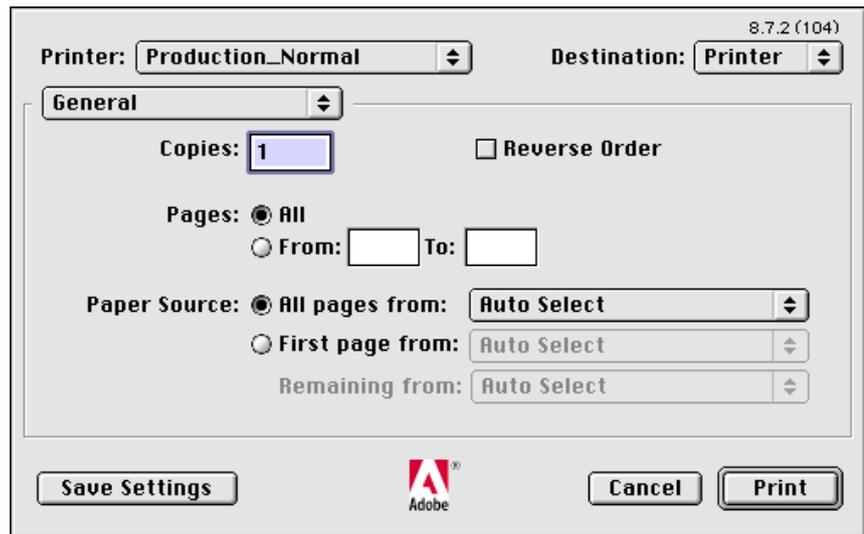
Mac OS 9 (Version 2.2 only)

Before you can print a document, you must determine its size and orientation. Usually, the size and orientation of a newly created document are determined as A4 or Letter and portrait.

You can change size and orientation in the **Page Setup** dialog.



To print a document, select the Print dialog, usually by **File » Print**.



In each panel of the Print dialog you can select the printer which corresponds to the target DDP Server.

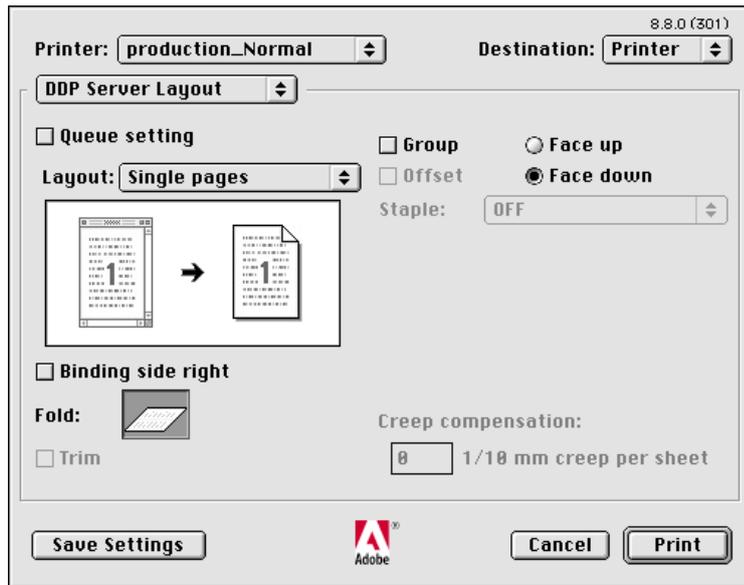
On opening, the **Print** dialog shows the **General** panel. Within this panel, you can select the following options:

- The range of pages to be printed
- The number of copies to be printed
- The tray to be used for printing.

The two options for Autoselect have the following meaning:

- Autoselect tray: No information about tray selection is included in the job ticket. Tray selection is determined by the queue executing the job.
- Autoselect: Auto tray selection is included in the job ticket. This may override the settings of the queue executing the job.
- Collate – do not check this option as it will be ignored. By default, sorting is on. Check the Group option in the **Layout** panel if you want non-sorted prints.

To select more print options and change printer driver options specific to the DDP Server, click on **General** and select a different printer driver panel, e.g. the **Layout** panel.



The **DDP Server** panels available from the DDP Server printer driver plug-in are listed below.

- DDP Server Layout – this comprises imposition (e.g. booklet) and finishing options.
- DDP Server Cover sheets – select front and back cover sheets.
- DDP Server Trays – select trays for individual job pages.
- DDP Server Color – select color separation parameters
- DDP Server Screening – this comprises raster frequency and angle.
- DDP Server Image shifting – this allows you to position a document on paper which is bigger than the document.
- DDP Server Forms – select forms for overlay printing.
- DDP Server Workflow – this comprises creation of forms and archive jobs, auto print settings, job delegation and splitting settings, and email notification.

For more details about the printer driver plug-in, refer to the Printer Driver Plug-in Reference Guide.

Supported network protocols

DDP Server supports the following network protocols:

Printing:

- NetBIOS (over TCP/IP)
- lpr
Queue names must be entered in lower case when addressing DDP Server as an lpr printer.
- Port 9100 (including limited back channel function)
Direct ports for port numbers > 9100 can be associated with custom queues. See the DocXPLOER Reference Guide about how to associate a direct port with a queue.
- IPP
- EtherTalk

Other protocols:

- HTTP (ProfiWEB)
- SNMP (status monitoring via host resources MIB and printer MIB)
- DHCP

Hot folders

Hot folders are provided for NetBIOS and ftp.

NetBIOS: The DDP Server publishes a share named “hotfolder”. In this share there is a writable subfolder for each queue.

If you have a file whose type is supported with direct printing (PS, PDF, PCL, TIFF, or ASCII), you can copy it there, e.g. by drag and drop or by the Windows command line:

```
copy myfile.pdf \\myrip\hotfolder\myqueue
```

This submits myfile.pdf to the queue myqueue on the RIP myrip.

ftp: The DDP Server provides an ftp site with a login for user “ftp” or “anonymous” and any password (e.g. empty). The folder “queue” contains a writable subfolder for each queue.

You can put files of a supported file type into a queue as follows:

```
ftp -A myrip      (-A = anonymous login)
cd queue/myqueue
bin              (only necessary if your file contains nonprintable chars)
put myfile.pdf
bye
```

This submits myfile.pdf to the queue myqueue on the RIP myrip.

Drag and Drop Printing using SMAP

The following file types are accepted as direct input by the DDP Server:

- PostScript
- PDF
- PCL 5e/5c
- TIFF
- ASCII (must be enabled by the administrator)

Direct printing on Windows:

Drag the file on the SMAP link installed on the desktop.

SMAP shows a list of Windows printers. Select one which is associated with a print queue of the DDP Server. The file is sent (without modification) to the selected printer.

Alternatively: Launch SMAP from the Start menu. Select a Windows printer from the list of printers. Drag one or more files into the list of files. Click **Download** to send the files to the printer.

Direct printing on Mac OS X:

Drag the file on the SMAP application.

SMAP shows a list of installed printers. Select one which is associated with a print queue of the DDP Server. The file is sent (without modification) to the selected printer.

Note: If SMAP is already running, it does not show the list of printers, but adds the file to its list of files to be downloaded.

Alternatively: Launch SMAP. Select a printer from the list of printers. Drag one or more files into the list of files. Click **Download** to send the files to the printer.

Direct printing on Mac OS 9 (Version 2.2 only):

Drag the file on the SMAP alias. The file is sent (without modification) to SMAP's default printer. (On the first invocation of SMAP you will have to select a default printer.)

Alternatively: Launch SMAP. Select a printer from the printers popup. Drag one or more files into the list of files. Click **Download** to send the files to the printer.

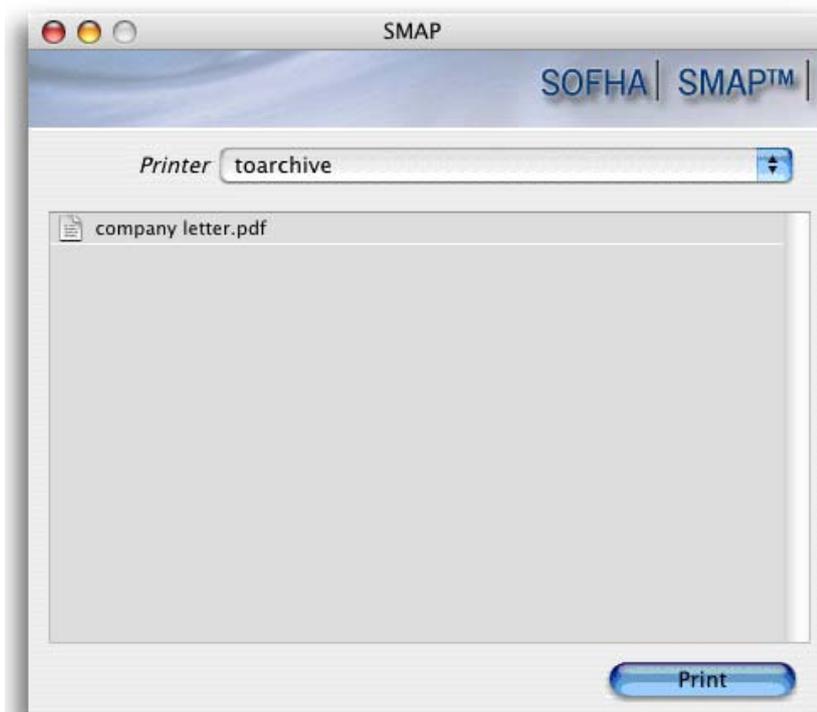
The following preferences can be set for SMAP on the Macintosh:

- Automatically start printing – files will be downloaded immediately when dragged on the SMAP alias or into the list of files.
- Quit when done – SMAP will quit after the download.

These settings are recommended when SMAP is used for drag and drop printing to the default printer.

You can also configure SMAP for drag and drop printing to different printers:

- Make sure SMAP is configured for **Automatically start printing** and **Quit when done**.
- Copy the SMAP program (not the alias), one copy for each target printer.
- Name the program copies according to the target printers.
- Launch each program copy and select the target printer. Drag and drop to this program copy will then print to the selected printer.



No job settings can be selected during direct printing. The job will be executed on the DDP Server with the settings entered for the queue.

Note: SMAP for Macintosh requires CarbonLib version 1.5 or higher. You can obtain CarbonLib from the support pages on <http://www.apple.com>.

Note the following points when PDF file is printed.

- Only genuine Adobe PDF files are supported. Version 1.6 PDF files are supported compatible.
- PDF files that uses a peculiar function of PDF version 1.4 might not be able to be printed.

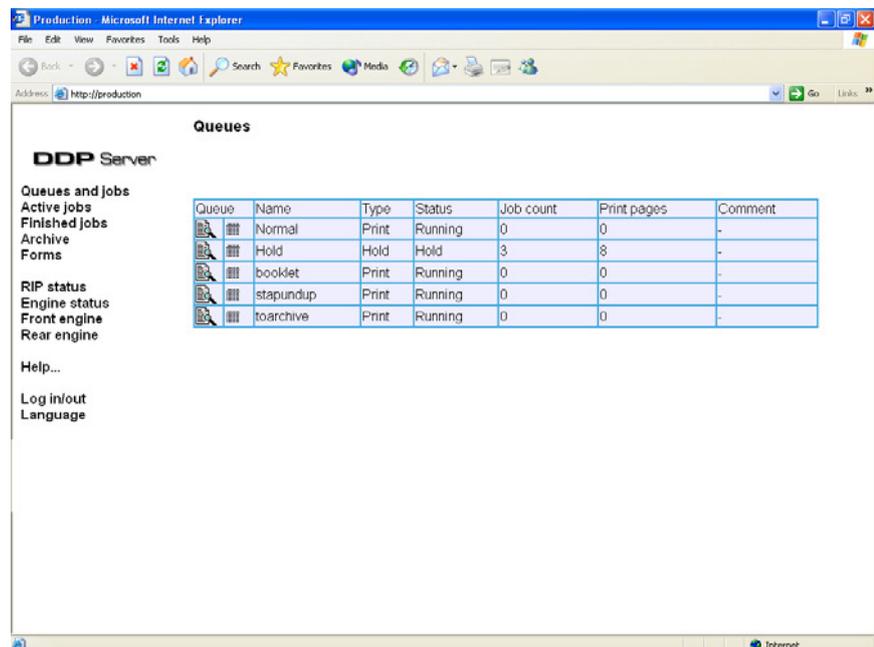
- PDF files with activated security settings “printing not permitted” and “password set” cannot be printed.
- Embed fonts in the PDF file, when characters are misaligned or the shape of characters has changed.
- In PDF direct printing, the paper size is stored in the PDF file. Please insert the displayed paper size in the tray when a respective message is displayed on the OCP.

Managing the DDP Server using the web browser

The DDP Server can be managed through the web browser interface.

The web browser interface is the light version of the stand alone application DocXPLOER which is described in the next section.

To view the web browser interface, enter the name or IP address of the DDP Server into the location field of your web browser and click the Enter key.



The web browser interface shows a window consisting of two frames, of which the left frame allows you to select different dialogs in the right frame.

The web browser interface provides the following dialogs:

- Queues and jobs – this shows the list of queues.

Select:

- to view the details of the selected queue.
- to edit the details of the selected queue.
- to view the list of jobs of the selected queue.

Within the job list, select:

-  to view the details of the selected job.
 -  to edit the details of the selected job.
 -  to preview the job (if applicable).
 -  to print the job (if applicable).
- Active jobs – this shows the list of active (interpreting or printing) jobs.
 - Finished jobs – this shows the list of finished jobs. The job details allow to inspect execution results and error messages if applicable.
 - Archive – the list of pre-rasterized jobs.
 - Forms – the list of installed forms.
 - Accounting – this shows accounting data about finished jobs (only if activated by the administrator).
 - RIP status – this shows general information, communication settings, and other settings of the selected DDP Server.
 - Engine status – this shows information about the connected printer.
 - Help – this shows the online help for the web browser.
 - Login / logout – this allows you to login as administrator or as a normal user. Administrator status is required to change DDP Server settings. Normal user login is required, e.g. to edit job settings.
For login/logout to work, your browser must accept cookies.
 - Language – this allows to select the language for the web browser user interface.

For language selection to work, your browser must accept cookies.

For further information, consult the ProfiWEB Reference Guide.

DocXPLOER Overview

DocXPLOER allows users to monitor and control a cluster of DDP Servers in a network.

DocXPLOER provides the following functions for a DDP Server:

- Monitoring and control for multiple DDP Servers in a network
- Load balancing between several DDP Servers by delegation and job splitting
- Custom queues – user defined queues providing different print profiles
- Support for extended printer driver functions like forms overlay and archive jobs
- Job merging – creating new jobs by merging bitmaps of pre-rasterized jobs

As a normal user, you can use DocXPLOER to submit and monitor jobs, edit the job ticket, and perform special functions like job merging and feedback.

As an administrator, you can configure DDP Servers, especially for load balancing, setup queues to provide different printing profiles and collect accounting data to charge back users.

The DocXPLOER interface includes a cluster topology overview, showing jobs and queues lists and detailed views of jobs, queues and DDP Servers. The left panel of the main window shows a navigable tree overview of the network with DDP Servers and queues. The right panels shows lists of DDP Servers, queues and jobs, depending on what is selected on the left panel. Detail dialogs allow users to view and edit details of selected DDP Servers, queues, or jobs, depending on their access rights.

DocXPLOER performs continuous monitoring of all viewed objects. The status of the DDP Servers, queues, and jobs in the main window is regularly updated to reflect their changes. This is performed without placing an extra burden on network traffic.

For further information, consult the DocXPLOER Reference Guide.

Database Print Manager Overview

Database Print Manager (DPM) is a variable data printing solution, and a product within the DocuFLOW® family of print applications. It is designed to be simple to install and operate, compatible with widely used word processing and database applications, and a constructive document tool for digital office, production, print for pay and graphic design users.

Using DPM enables you to personalize documents by performing text and image substitution. It automatically inserts variable data such as customer names, addresses, sentences and pictures within documents based on the DPM template.

A **template** consists of static elements (text, graphics and images), and tags («tag») that represent placeholders for variable data.

A **personalized document** is the result of merging the template and the variable data. These documents have varying content and static content. This provides for a variable look and message for each document.

Real world applications that use personalized documents include direct mailings, brochures, transactional documents such as invoices, tickets and coupons, handbooks, manuals and any document that requires custom content. Personalized documents are important to relationship marketing and other business communication activities. DPM is a workflow tool designed to enhance output productivity and be easy to use for any document application.

DPM works together with other DocuFLOW applications such as e-Forms and imposition management. You can take personalized documents and add a job ticket, overlay a company logo or a business address using the e-Forms capability, or submit a personalized document to a special finishing queue. In this way, you have the option to leverage other DocuFLOW features to further enhance your printing results.

To design templates DPM works with any software application such as Microsoft Word and Quark QuarkXPress.

For further information, consult the Database Print Manager Reference Guide.

Appendix

System Event Messages

DDP server maintains a log of system events. System events include, for example, RIP startup, email notification configuration problems, paper empty, and paper jam.

Events are divided into severity classes whose handling can be configured separately:

- Info – e.g., RIP startup
- Consumables warning – e.g., paper nearly empty
- Warning – e.g., hard disk nearly full
- Consumables error – e.g., paper empty
- Error – e.g., hard disk full
- Fatal error – severe system failures

The system event log can be inspected via DocXPLOER or ProfiWEB. DDP Server can be configured to notify the administrator by e-mail on occurrence of a system event.

Code	Severity	Text	Explanation
ADMIN_LOGIN	Info	Admin Login	The administrator has logged in.
ADMIN_- LOGOUT	Info	Admin Logout	The administrator has logged out.
ADMIN_PW_- CHANGED	Info	Admin password changed	The administrator password has been changed.
BAD_DONGLE	Fatal	Invalid dongle	The license in the dongle is not valid for the current hardware or software configuration. User jobs will not be printed. Action: Check with your service technician if the dongle needs to be upgraded. Connect a valid dongle and reboot.

Code	Severity	Text	Explanation
BOOT_UP	Info	Boot up	The DDP Server has booted.
BOOT_UP_DB_- CHECK_ERROR	Error	Database check: inconsistency repaired	The database check on bootup has found and repaired an inconsistency. This message indicates that the DDP Server has not been shut down properly. Action: Always shut down the DDP Server by shortly pressing the Power button on the front panel or by the DocXPLORER shutdown function.
BOOT_UP_- FILE_CHECK_- ERROR	Error	File system check: inconsistency repaired	The file system check on bootup has found and repaired an inconsistency. During this event, booting may take longer time.
CALL_SERVICE	Fatal	Call Service	The printer has reported a Service Call
DB_INCON- SISTENCY_- JOB_LOST	Warning	Database check: job record lost	The database check on bootup has detected loss of a job record. This message indicates that the DDP Server has not been shut down properly. Action: Always shut down the DDP Server by shortly pressing the Power button on the front panel or by the DocXPLORER shutdown function.
DB_INCON- SISTENCY_- REPAIRED	Warning	Database check: inconsistency repaired	The database check on bootup has detected an inconsistency which has been repaired. This message indicates that the DDP Server has not been shut down properly. Action: Always shut down the DDP Server by shortly pressing the Power button on the front panel or by the DocXPLORER shutdown function.
DB_INCON- SISTENCY_- SOURCEFILE_- LOST	Warning	Database check: source file lost	The database check on bootup has detected loss of a job source file. This message indicates that the DDP Server has not been shut down properly. Action: Always shut down the DDP Server by shortly pressing the Power button on the front panel or by the DocXPLORER shutdown function.

Code	Severity	Text	Explanation
DNS_DOES_- NOT_KNOW_- RIP	Warning	DNS does not know RIP name / address	The specified DNS (domain name server) does not know the combination of name and address entered for the DDP Server. As a result, e-mail notification and access to the DDP Server by a web browser may fail. Action: Check the name / address entered in the DDP Server and in the domain name server.
DNS_NOT_- FOUND	Error	DNS not found	The DDP Server could not find the specified DNS (domain name server). Action: Check the cable connections. Check the DNS address entered under RIP details – communication settings.
DONGLE_- MISMATCH	Fatal	Configurations in the dongle and on the hard disk do not match	The configuration in the dongle and the configuration stored last on the hard disk do not match. User jobs will not be printed. Action: Connect a dongle with the same configuration as stored on the hard disk and reboot. Check with your service technician if the dongle needs to be upgraded. Or perform Initialize Disk to adjust the configuration on the hard disk.
DUP_APPLE- TALK_NAME	Warning	Duplicate AppleTalk name	The AppleTalk name of the DDP Server has a duplicate in the network. Due to the AppleTalk protocol, the DDP Server will rename itself automatically until the next reboot. Action: To avoid identification problems, assign a distinct name to each DDP Server.
EMAIL_- PROBLEM	Error	Email notification failed	Notification of the administrator or job owner by email failed. Action: Check the mail server address, the DNS address entered for the DDP Server, and the email address to be used for notification.
ENGINE_- POWER_OFF	Fatal	Printer power off	The connected engine was disconnected or powered off.
FEAT_UPG	Info	Feature upgrade successful.	A feature upgrade (changing the configuration in the dongle) has been performed successfully.
FEAT_UPG_- ERR_- NO_DONGLE	Error	Feature upgrade failed: No dongle found.	A feature upgrade failed because no dongle was connected. Action: Connect the dongle to be upgraded.

Code	Severity	Text	Explanation
FEAT_UPG_- ERR_SERIAL_- MISMATCH	Error	Feature upgrade failed: Serial number mismatch.	A feature upgrade failed because the upgrade does not match the serial number of the connected dongle. Action: Connect the right dongle, or obtain an upgrade for the serial number of the connected dongle.
FEAT_UPG_- ERR_UPG_NOT _ALLOWED	Error	Feature upgrade failed: This upgrade is not allowed with this dongle.	A feature upgrade failed because the current configuration of the dongle does not allow the upgrade to be performed. Action: Obtain a valid upgrade for the connected dongle.
FEAT_UPG_- ERR_- READFAIL	Fatal	Feature upgrade failed: Data on the dongle cannot be read.	A feature upgrade failed because data on the connected dongle cannot be read. Action: Contact technical support.
FEAT_UPG_- ERR_- WRITEFAIL	Fatal	Feature upgrade failed: Data on the dongle cannot be written.	A feature upgrade failed because data cannot be written on the connected dongle. Action: Contact technical support.
INTERNAL_- ERROR	Fatal	System error	An internal system error has occurred. The details provided as info may explain e.g. a following reboot.
LOST_- CONNECTION_- TO_SLAVE	Error	Lost connection to client	The connection to a DDP Server entered as client was lost while a job was processed by a client.
NO_DONGLE	Fatal	No dongle found	No dongle found. User jobs will not be printed. Action: Connect a valid dongle and reboot.
PAPER_EMPTY	Consum. Error	Paper empty	A paper tray has run empty. Action: Refill paper.
PAPER_JAM	Error	Paper jam	A paper jam has occurred. Action: Clear the paper jam.
PAPER_- NEARLY_- EMPTY	Consum. Warning	Paper nearly empty	A paper tray is nearly empty. Action: Refill paper.
PRINTER_- NOT_READY	Error	Printer not ready	The printer is not ready for a temporary reason (e.g. door open).

Code	Severity	Text	Explanation
RIP_HDD_FULL	Fatal	Hard disk full	<p>The hard disk is full. In general, printing will be no more possible.</p> <p>The hard disk partition monitored by this message comprises job sources and archive jobs. In general, archive jobs take up the most space.</p> <p>Action: Clear some archive jobs to recover disk space.</p>
RIP_HDD_NEARLY_FULL	Warning	Hard disk nearly full	<p>The hard disk is nearly full.</p> <p>The hard disk partition monitored by this message comprises job sources, archive jobs, and fonts. In general, archive jobs take up the most space.</p> <p>Action: Clear some archive jobs to recover disk space.</p>
SERIAL_NUMBER_MISMATCH	Fatal	Serial number mismatch	<p>The check of the DDP Server's serial number has failed.</p> <p>Action: Call your service technician.</p>
SHUTDOWN	Info	Shutdown	The DDP Server was shut down.
SOFTWARE_UPGRADE	Info	Software upgrade	<p>A software upgrade has been performed successfully.</p> <p>Action: You may check the new version number on the Settings Page or in the RIP Details dialog.</p>
SOFTWARE_UPGRADE_ERROR	Error	Software upgrade failed	<p>A software upgrade has failed. The DDP Server is still working with the previous system software version.</p> <p>Action: Check if the upgrade file is complete and intact. Check the MD5 sum which comes with the upgrade.</p> <p>Retry the software upgrade. The file may not have been downloaded completely.</p> <p>Check if the DDP Server executes jobs correctly. If not, perform the Init Disk function, then retry the upgrade.</p>
STAPLES_EMPTY	Consum. Error	Staples empty	<p>The staple box is empty.</p> <p>Action: Replenish staples.</p>
STAPLES_NEARLY_EMPTY	Consum. Warning	Staples nearly empty	<p>The staple box is nearly empty.</p> <p>Action: Replenish staples.</p>

Code	Severity	Text	Explanation
SYSTEM_- CRASH_- DETECTED	Fatal	RIP was shutdown by power off	<p>The DDP Server was not correctly shut down, but power was disconnected.</p> <p>In general, the DDP Server survives disconnecting power. However, disconnecting power may lead to a corrupted file system or database.</p> <p>Action: Always shut down the DDP Server by the button at the front panel, form the DocXPLOER, or the web server.</p> <p>If the power off has lead to a DDP Server malfunction, perform the Init Disk function.</p>
TONER_EMPTY	Consum. Error	Toner empty	<p>Toner is empty.</p> <p>Action: Replenish toner.</p>
TONER_- NEARLY_- EMPTY	Consum. Warning	Toner nearly empty	<p>Toner is nearly empty.</p> <p>Action: Replenish toner.</p>
WASTEPAPERB OX_FULL	Consum. Error	Waste basket of Trimmer is full	<p>The waste basket of the trimmer is full.</p> <p>Action: Empty the waste basket.</p>
WASTEPAPER- BOX_- NEARLY_FULL	Consum. Warning	Waste basket of Trimmer is nearly full	<p>The waste basket of the trimmer is nearly full.</p> <p>Action: Empty the waste basket.</p>

Job Check Messages

Job check messages are created during processing of each job. They can be inspected via DocXPLOER or ProfiWEB in the Job Details » Logging dialog. Each job can be configured to notify the user by e-mail on occurrence of a job error.

Code	Text	Explanation
FoldingToo-ManyPages	Too many pages for folding.	The job has too many pages for folding. Action: Check the DDP184 documentation for limits on folding. Select stapling with folding. Folding without stapling is allowed only for a few pages.
NoColorMatch-NoSep	Print color does not match engine colors.	The print color selected for “no separation” does not match the current engine colors. Action: Configure the engine with the color required by the job. Run the job with “Don’t enforce color matching”. Note that MICR is always enforced.
NoColorMatch-Sep	Print colors do not match engine colors.	The print colors selected by the job do not match the current engine colors. Action: Configure the engine with the colors required by the job. Run the job with “Don’t enforce color matching”. Note that MICR is always enforced.
NoMatchFace-UpFolding	Face up printing is not allowed with folding.	The selected job settings, face up and folding, do no match. Action: Reset settings to default and enter matching settings.
NoMatchFace-UpStapling	Face up printing is not allowed with stapling.	The selected job settings, face up and stapling, do no match. Action: Reset settings to default and enter matching settings.
NoMatchFoldingMixedPageSize	Folding setting does not allow mixed paper sizes.	The selected job settings, half fold and mixed paper size, do no match. Action: Reset settings to default and enter matching settings.

Code	Text	Explanation
NoMatchFoldingStapling	Folding and stapling settings do not match	The selected job settings do no match, e.g. half fold and side staple. Action: Reset settings to default and enter matching settings.
NoMatchLayoutMixedPageSize	Layout setting does not allow mixed paper sizes.	The selected job settings do no match, e.g. booklet and mixed paper size. Action: Reset settings to default and enter matching settings.
NoMatchLayoutStapling	Layout and stapling settings do not match	The selected job settings do no match, e.g. booklet and corner stapling. Action: Reset settings to default and enter matching settings.
NoMatchOutputTrayMixedPageSize	Output tray setting does not allow mixed paper sizes.	The selected output tray does not allow mixed paper sizes. Mixed paper sizes are supported only with output to the elevator tray and the sample tray.
NoMatchStapleMixedPageSize	Staple setting does not allow mixed paper sizes.	Stapling does not allow mixed paper sizes. Action: Select either stapling or mixed paper sizes.
NoMatch-Trimming-Folding	Trimming and folding settings do not match	Trimming is allowed only with half folding.
NoTrayMatch	No tray matches given paper size and orientation.	No tray matches the page size of the document. For auto select tray, the page size of the document must be available (exactly) in at least one tray. Rotation to LEF or SEF is performed automatically. Action: Load a tray with paper of the document page size. If you want to print on paper which does not match the document page size, select the corresponding tray explicitly.
NoTrayMatch-Bkcov	No tray matches paper size and orientation for back cover.	The paper in the tray selected for the back cover does not match the paper size and orientation of the document. Action: Select a tray for the back cover with paper of the same size and orientation as it is used for the document.
NoTrayMatch-Folding	No tray matches folding setting.	The restrictions given by the selected folding left no tray for the given paper size. Half folding requires SEF paper. Action: Load a tray with SEF paper and the page size of the document.

Code	Text	Explanation
NoTrayMatch-Frcov	No tray matches paper size and orientation for front cover.	The paper in the tray selected for the front cover does not match the paper size and orientation of the document. Action: Select a tray for the front cover with paper of the same size and orientation as it is used for the document.
NoTrayMatch-Hinse	No tray matches given insert page size and orientation.	The paper in the tray selected for an insert page does not match the paper size and orientation of the document. Action: Select a tray for the insert page with paper of the same size and orientation as it is used for the document.
NoTrayMatch-Htray	No tray matches page size and orientation for specific page.	The paper in the tray selected for a specific document page does not match the paper size and orientation of the whole document. Action: Select a tray for the specific document page with paper of the same size and orientation as it is used for the whole document.
NoTrayMatch-Layout	No tray matches layout setting.	The restrictions given by the selected layout left no tray for the given paper size. E.g. booklet always requires SEF paper. Action: Load a tray with paper of a size and orientation matching the page size of the document and the selected layout.
NoTrayMatch-Stapling	No tray matches stapling setting.	The restrictions given by the selected stapling left no tray for the given paper size. E.g. long edge stapling requires LEF paper. Action: Load a tray with paper of a size and orientation matching the page size of the document and the selected stapling.
PageSizeTooBig	Maximum page size exceeded.	The document's page size exceeds the maximum page size. Action: Make sure the document has a supported page size.
StaplingToo-ManyPages	Too many pages for stapling.	The document's number of pages exceeds the allowed number of pages for stapling. Action: Check the DDP184 documentation for limits on stapling. Select subsets in the DocXPLOER or Web browser Job details » Layout dialog to get the document stapled in subsets.
WrongParams-ColorSep	Invalid color separation parameters.	The selected settings for color separation do not match. Action: Reset settings to default and enter matching settings.

Precautions

Precautions when using a Macintosh computer (Version 2.2 only)

Following restrictions are imposed on the use of this server in a Macintosh environment.

1. The Native Mac OS X 10.2 and 10.3 do not support the client utility software and the printer driver Plug-in. Use the DDP Server in the Mac 9.X mode (Classic Mode) on Mac OS X 10.2 and 10.3.
2. Apply the carbonlib library version 1.5 or later to Mac OS when using SMAP.
3. SMAP supports downloading to the Normal queue and the Hold queue only. An error message will be shown if you try to download to another queue.
4. SMAP does not support drag and drop printing with PDF, TIFF and ASCII files. Choose the file to be printed with "Add File".
5. Only PostScript and PDF files can be printed using the function "queue >> direct printing" in the DocXPLOERER.

Precautions when making new queues

You can use not only the Normal and Hold queues defined at the factory but also user-defined queues created with DocXPLOERER or ProfiWEB. To use the newly made queues with lpr and NetBIOS, please reboot the DDP Server. These queues will be enabled after rebooting.

Precautions when using lpr protocols

Enter queue names in lowercase characters for lpr commands even though uppercase characters are used for the queue names.

Precautions when using the DocXPLOERER

DocXPLOERER does not have an exclusive control function for setting each queue. Take extra care when setting.

Precautions when changing the paper tray

1. Do not choose "MBT" for duplex printing jobs when changing the paper tray by selecting "Data Printing Cover Sheet" and

“Define Mixed Tray” during a job. “MBT” supports only simplex printing jobs. If mistakenly chosen, simplex printing is done and the page sequence is not guaranteed in the job.

2. Do not choose the paper tray whose paper size setting is “Tabstock” for duplex printing jobs when changing the paper tray by selecting “Data Printing Cover Sheet” and “Define Mixed Tray” during a job. “Tabstock” supports only simplex printing jobs. If mistakenly chosen, simplex printing is done and the page sequence is not guaranteed in the job.
3. The limitation of tray switch in one job is 10,000 times. Note that the value can be less, depending on the settings of the job. If the number of tray switches in one job exceeds the limitation, further tray switches will be ignored.

Precautions when using the Booklet (small) printing function

The “Booklet (small) printing” function is not available for letter and tabloid size paper.

Precautions when using the Windows XP SP2

1. Enable the TCP port 139 according to the following procedure in order to use the “Windows Message” function of the printer driver Plug-in/DocXPLOER/ProfiWEB under Windows XP with SP 2.
 - A) Start up “Windows Firewall.” (Start >> Control Panel >> Windows Firewall)
 - B) Select “Exceptions” tab.
 - C) Select “File and Printer Sharing” in the “Programs and Service” column and click the “Edit” button.
 - D) Check “TCP139” and click the “OK” button.
 - E) Click the “OK” button to close “Windows Firewall”.
2. Register and enable the “javaw” program according to the following procedure in order to use the “DHCP Server” function of the DocXPLOER under Windows XP with SP 2.
 - A) Start up “Windows Firewall.” (Start >> Control Panel >> Windows Firewall)
 - B) Select “Exceptions” tab.
 - C) Click the “Add Program” button.
 - D) Click the “Browse” button on the “Add Program” dialog box.
 - E) Select the “javaw.exe” program and click the “OK” button. “javaw.exe” is in the following folder.
 - “Client Software Install Drive”:\
 - “Client Software Install Folder”
 - \\DDP Server\JRE142\bin
 - F) Click the “OK” button to close the “Add Program” dialog box.

G) Click the “OK” button to close “Windows Firewall.”

Precautions when using the form or archive preview function

The preview image may not be displayed properly if form or archive data of following sizes are created using Spot color or Mixed color as color separation method.

Page Size	Orientation	Page Size	Orientation
A3	Portrait / Landscape	Ledger	Portrait / Landscape
A4	Landscape	B4	Landscape
Folio	Landscape	Letter	Landscape
Tabstock A4	Portrait / Landscape	Tabstock Letter	Portrait / Landscape
Statement	Portrait		

Precautions when using the container stacker auto cascade function

Paper may not be stacked in the CS1 lower stacker in the proper page sequence if the container stacker is used with the auto cascade function and all of the following conditions are satisfied.

Conditions:

- The printout of a job has already been stacked in the container stacker 1 lower.
- All the container stackers except the container stacker 1 are full or unavailable during job printing.
- The paper size of the job during printing is the same as that of the printout of another job already stacked in the container stacker 1.

Limitation:

The printout of a job printed by using the auto cascade function is stacked on the printout of another job already stacked in the container stacker 1 lower in any of the above conditions.

Workaround:

To avoid this limitation, perform the following operation.

- To eject paper into the container stacker using the auto cascade function, take out all paper from the container stacker 1 lower before starting the job printing.
- If you take out paper from the container stacker 1 in the middle of the job during auto cascade printing, make sure that you remove all paper from the stacker.

Transferable file size

The maximum size of a file that can be transferred to the DDP Server by using LPR, EtherTalk, IPP and NetBIOS is 2 GB at a time.

Precautions when using the job offset function

Following restrictions are valid for job offset function.

Jobs are offset as follows during printing when defining a header page together with job offset:

- (a) Offset is performed between the header page and the job when printing one copy of the job.
- (b) Offset is NOT performed between the header page and the job when printing multiple copies of the job.

Jobs are offset as follows during printing when defining a trailer page together with job offset:

- (a) Offset is performed between the header page and the job when printing one copy of the job.
- (b) Offset is NOT performed between the header page and the job when printing multiple copies of the job.

Precautions when using the printer engine web page access function

The menu screen may not be displayed properly in some part (related to JAVA applets) when accessing the printer engine web site from a PC with clean installed Windows Server 2003 or Windows XP SP1a (or later). In such case, directly jump to the desired screen from the site map on the web screen.

Precautions in spot color printing

The overprint function is not supported if the CIE color space is selected. Choose the RGB or CMYK color space when using overprint.

Precautions of Mixplex Mode

The output form may be different according to the setting of the Mixplex mode, and the output result may be unexpected. Keep that in mind when you print mixed simplex – duplex (Mixplex) PostScript jobs.

Precautions of Direct PDF print

Note the following points when PDF file is printed.

- Only genuine Adobe PDF file is supported. Version 1.6 PDF files are supported compatible.
- PDF files that uses a peculiar function of PDF version 1.4 might not be able to be printed.
- PDF files with activated security settings “printing not permitted” and “password set” cannot be printed.
- Embed fonts in the PDF file, when characters are misaligned or the shape of characters has changed.
- In PDF direct printing, the paper size is stored in the PDF file. Please insert the displayed paper size in the tray when a respective message is displayed on the OCP.

Precautions of PCL command

The supported PCL commands are compatible with HP-8150.

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Glossary

Term/Abbreviation	Explanation
Accounting	Providing the administrator with execution and consumables usage data for executed jobs, e.g. number and type of printed pages, print time, errors.
Active jobs	A virtual queue showing the jobs which are currently interpreted or output.
Administrator	User with special rights to configure a DDP Server. See user.
Archive queue	A virtual queue of jobs rasterized for later feedback, merging, overlay, and printing.
ASCII	An encoding for text.
Auto select tray	A method to select a paper tray matching the job's requirements, e.g. by page size and finishing options.
Bitmap	Image data produced by the RIP for output on the printer, or for preview of forms or archive jobs.
Booklet	Layout of the pages of a document on the printed sheets such that the result can be center folded and then read as a booklet.
Client	A DDP Server configured for load balancing. The client takes over jobs from a master for execution.
Cluster Printing	s. load balancing.
Copy splitting	Dividing a print job into subsets by reducing its copy count, e.g. duplicating a 500 copies job into 2 jobs with 250 copies each.
DDP Server	Printer controller. DDP Server turns a digital printer into a network printer which supports custom queues, archive printing, forms overlay, job merging, and cluster printing.
Delegation	Sending a job to another DDP Server for execution. Delegation aims at reaching a balanced load between all DDP Servers involved. Delegated jobs are tracked such that their history can be displayed at the master.
DHCP	Dynamic Host Configuration Protocol. A network protocol used for assigning IP numbers to network devices (server, workstation, printer).

Term/Abbreviation	Explanation
DNS	See domain name server.
DocuFLOW	s. SOFHA DocuFLOW
DocXPLOERER	Monitoring and control application of SOFHA DocuFLOW. DocXPLOERER allows to manage a network of DDP Servers together with the queues and jobs on them.
Domain name server	A network device mapping network names on IP addresses. A domain name server can also refer to a mail server by providing its MX record.
Download	Sending a job or font to the DDP Server. Download can be performed via drag and drop using SMAP or the DocXPLOERER.
Electronic stationery	s. form
EtherTalk	A network protocol used in Macintosh environments for printing and file sharing.
Failed job	A job whose execution raised an error, e.g. paper jam or paper tray mismatch. Failed jobs may be recovered from the Finished queue.
Feedback	Obtaining a bitmap from the DDP Server. Bitmaps are available for jobs rasterized for later printing and for forms. Bitmaps are available as thumbnails, full screen resolution, or full page resolution.
Finished jobs	A virtual queue showing jobs which have finished execution. Job details are still available for all jobs in this queue.
Finishing	Post printing operations, e.g. stapling, folding.
Form	A job which can be used to simulate preprinted paper (electronic stationery). Printing a document with a form results in printing the document pages over the form pages. Final prints may select a tray with offset printed paper instead of the form.
Forms queue	A virtual queue containing jobs which can be applied as PS overlay to other jobs.
Font	Set of typographically designed characters. Typical font types are TrueType and Type 1 (PostScript) fonts. Fonts may be available as screen fonts (for display) and as printer fonts (for high resolution output).
Gateway	s. router
Hold queue	A queue with jobs stored for later submission to a print queue.
HTTP	Hypertext transfer protocol. A network protocol used for communicating linked pages in local networks and the internet. HTTP is provided by the web server on the DDP Server.
Imposition	Instructions on how the pages of a job are laid out on the printed sheets, e.g. duplex or booklet.

Term/Abbreviation	Explanation
IP	Internet protocol. The lower layer of the TCP/IP protocol.
IP number	A unique number used to identify a network device (e.g. server, workstation, printer) in a network. An IP number consists of 4 integers between 0 and 255 (eight bits), e.g. 128.3.3.21. IP numbers may be valid world wide or only in the local network.
IPP	Internet Printing protocol. A network protocol used for printing in local networks and over the internet. IPP can use HTTP for job transport.
Job	Document in print ready format plus job ticket.
Job setting	Job ticket attribute defined in a job. Job settings may be set in the printer driver and edited in the job details dialog of the DocXPLOER. Job settings may be overridden by queue settings.
Job splitting	s. page splitting, copy splitting
Job ticket	Instructions for printer specific handling of a job, e.g. for imposition, forms inclusion, or owner notification.
Load Balancing	Using two or more DDP Servers to share print load among several printers. Sharing is achieved by delegation, page splitting and copy splitting.
Master	A DDP Server configured for load balancing. The master accepts jobs from clients and sends (delegates) them to the clients (including itself) for execution. Typically, in a load balancing configuration, users send jobs only to the master. A DDP Server can be master and client at the same time.
MX record	Mail exchange record provided by a domain name server. The MX record refers to a mail server accepting email for a specific domain.
Name server	See domain name server.
NetBIOS	A network protocol used in Windows environments for printing and file sharing.
Netmask	A 4 number tuple (like an IP number) specifying a subnet for searches and broadcasts. E.g. the netmask 255.255.0.0 specifies the first 16 bit of an IP number as subnet address.
Owner	The person or user account who submitted the job.
Page	1. document page (in the application) 2. printed page (on paper)
Page description language	Language for expressing document content on a printer instruction level. E.g. PostScript, PDF, PCL.
Page splitting	Dividing a print job into packets by pages, e.g. page 1-10 and 11-20 of a 20 page job. Finishing options like booklet layout or staple mode apply to each packet individually.

Term/Abbreviation	Explanation
PCL	Printer command language. A page description language used for HP printers. PCL5e supports black and white printing, PCL5c supports color printing.
PDF	Portable document format. PDF differs from PostScript by being less device dependent, page independent and easily to view on many platforms.
PostScript	Page description language (PDL) with a rich feature set for mapping text, graphics and images on raster devices like printers and film recorders.
PPD	PostScript Printer Description. A file on the workstation which specifies printer capabilities and how the printer driver can map them on printer commands.
Print pages (number of)	Number of document pages times number of copies.
Print queue	A queue with jobs waiting for execution.
ProfiRIP	Printer controller of DDP Server.
Purge	Deleting old jobs to recover database and job space. Purging may be applied to job sources if they are still available, to accounting records, and to job tickets.
Queue	A container for jobs. DDP Server provides print queues and hold queues. The administrator may define any number of print and hold queues. On the user's workstation, queues may be visible as MS Windows printers, or as Macintosh desktop printers.
Queue setting	Job ticket attributes defined in a queue. They may be defined to take priority over job settings.
Reboot	Restarting and initialising a DDP Server
RIP	Raster image processor. A device for turning instructions in a page description language (PDL) into bitmaps suitable for output on a printer. E.g. ProfiRIP
Router	A network device connecting a subnet to other networks.
Sample page	Predefined job in the hold queue showing configuration data on the DDP Server. There are sample pages for settings (Settings page) and for fonts (Fonts page).
Sheet	Sheet of printed paper. In duplex printing, two pages are printed on one sheet. In booklet printing, 2 document pages are mapped on one printed page and 4 document pages are printed on one sheet.
SMTP	Simple mail transfer protocol. SMTP is used by the DDP Server to send email notifications about job execution to the owner.

Term/Abbreviation	Explanation
SNMP	Simple network management protocol. A network protocol used for monitoring and configuring network devices, e.g. printers. The DDP Server configuration can be monitored by SNMP.
SOFHA DocuFLOW®	Software extending the SOFHA ProfiRIP office printing system. Comprises custom queues, archive printing, forms overlay, job merging, and cluster printing.
Subnet	<ol style="list-style-type: none"> 1. A set of IP numbers sharing a number of leading bits 2. A segment of a network separated from the rest of the network by a gateway
TCP/IP	A network protocol used for communication in local area networks and the internet.
UNC	Universal Naming Convention – a method to name network devices in a Windows environment
User	User with simple printing rights on a DDP Server. See administrator.