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Xerox[®] FreeFlow[®] Print Server

Getting Ready for Installation



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Installation worksheets

The *Getting Ready for the Xerox® FreeFlow® Print Server 7.0 Installation* guide has been developed for you to use in the gathering of the technical data required by the Xerox personnel during installation of your customer's print server hardware and software. It is used in conjunction with the appropriate printer installation planning guide.

Using the installation worksheets

The Xerox printer with FreeFlow Print Server software provides a wide range of network printing services on industry-standard networks, and consists of the following:

- A UNIX-based computer workstation with a Xerox interface PWB and FreeFlow Print Server software installed.
- A supported Xerox printer.

Getting Ready for the Xerox FreeFlow Print Server 7.0 Installation contains the worksheets that must be completed to support the installation of the Xerox FreeFlow Print Server software on the server.

When these worksheets are completed they will contain a record of the state of the system at the time of install. Most likely, this setup and configuration state will change, so encourage your customer to keep these worksheets with the service record of the printer for future reference.

Your customer should not complete the worksheets if they are not sure of the required information. Always encourage them to contact the next level of technical support within their organization for assistance.

NOTE: Worksheet W-5, the Novell NetWare gateway installation worksheet, refers to on-site setup requirements that your customer's network administrator should already have implemented prior to the FreeFlow Print Server install. The values for the data elements entered during that setup activity should be recorded on this worksheet.

Available worksheets

The following is a list of the worksheets that support the installation of the FreeFlow Print Server software:

- **Worksheet W-1: Solaris Operating System software**
Complete this worksheet for each print server. This information is used by the Xerox service representative to install the Solaris operating system and is a required worksheet.
- **Worksheet W-2: Xerox Security**
This information is used by the Xerox service representative to set the appropriate level of security on the print server. This worksheet requires an understanding of the level of access required by the customer's workflow and applications, such as the Xerox FreeFlow Prepress Suite.
- **Worksheet W-3: Xerox FreeFlow Print Server software**
Complete this worksheet for each print server. This information is used by the Xerox service representative to install the FreeFlow Print Server software.
- **Worksheet W-4: System configuration**
This information is used by the Xerox service representative to connect the print server to the Xerox printer and is a required worksheet.
- **Worksheet W-5: Xerox FreeFlow Print Server software and gateways**
This information is used by the Xerox service representative to ensure the proper licenses are loaded for the FreeFlow Print Server software.
- **Worksheet W-6: Network Configuration**
This information is used by the Xerox service representative to set up and configure the network configuration of the FreeFlow Print Server to match the customer's site.

The customer can also use this information to configure additional network information or to change the network configuration at some future date.
- **Worksheet W-7: Novell NetWare Gateway installation**
This information is used by the Xerox service representative to set up the Novell NetWare gateway.

The customer can also use this information to set up the gateways on the print server after the gateways have been installed and licensed.

- **Worksheet W-8: AppleTalk Gateway installation**

This information is used by the Xerox service representative to set up the AppleTalk Gateway.

This information can also be used by the customer to set up the AppleTalk Gateway after the gateway has been installed and licensed.
- **Worksheet W-9: SNMP Gateway installation**

This information can be used by either the Xerox service representative or the customer to set up the SNMP Gateway after the gateway has been installed and licensed.
- **Worksheet W-10: Client workstations**

This worksheet is used only when your customer has contracted Xerox to install additional document submission software or print drivers on their client workstations.
- **Worksheet W-11: PrlInteract Remote Services**

Remote Services is an option that allows the customer to interact with Xerox through a web-based browser to resolve printing issues, download and install software patches, and send machine and job data to Xerox.

The information collected on this worksheet is used by the Xerox service representative to set up the Remote Services software.
- **Worksheet W-12: Data Overwrite and Backup Configuration**

Data Overwrite software removes all data from the spool, swap, and outQ partitions of the FreeFlow Print Server hard disk. The data cannot be retrieved.

The Backup Configuration utility allows customers to back up and restore system configuration files as well as Remote Services configuration files.

The information collected on this worksheet is used by the Xerox service representative to set up the Data Overwrite and Backup Configuration features.

About the worksheets

The worksheets contain a combination of the following elements:

- The **Data Element** column contains a list of the specific items of information needed to perform the procedure identified in the worksheet title. Definitions for the required data elements immediately follow each worksheet.
- Use the **Customer Value** column to enter the necessary data element value. If the value is pre-determined, the value required is indicated in the column.

Although necessary for install, it is up to your customer to decide whether these values should be entered in the tables. If the values are not available in the tables, make sure your customer will be able to provide the information during install.

W-1: Solaris operating system worksheet

The Xerox service representative uses the following information during the installation of the Solaris operating system on the print server.

In the Customer Value column, fill in or circle the appropriate value where applicable. **Bold text** indicates a standard installation value.

Item #	Data Element	Customer Value
1	Primary Network Interface	bge0 bge1 e1000g0 e1000g2 nge0 Determined Automatically
2	DHCP	Yes No
3	Hostname	
4	IP Address (If DHCP is yes, then skip) Note: The following IP address ranges are prohibited from use: <ul style="list-style-type: none"> ▪ 192.168.255.0 to 192.168.255.255 ▪ 10.40.101.0 to 10.40.101.255 ▪ 10.10.10.0 to 10.10.10.255 	
5	Subnets?	Yes No
	If Yes, then enter Subnet Mask	
6	Enable IPv6?	Yes No
7	Set the Default Route	Detect One Specify One None
	Default Router IP Address (Default gateway) (If Specify One, enter the Router IP Address)	
8	Enable Kerberos Security?	Yes No
9	Name Service	NIS+ NIS DNS LDAP None
NIS+, NIS	Domain Name	
	Locate server automatically	Find one Specify
	If Specify, then NIS Server Hostname	
	If Specify, then NIS Server IP Address Note: The following IP address ranges are prohibited from use: <ul style="list-style-type: none"> ▪ 192.168.255.0 to 192.168.255.255 ▪ 10.40.101.0 to 10.40.101.255 ▪ 10.10.10.0 to 10.10.10.255 	

Item #	Data Element	Customer Value
Item # 9 Name Service continued		
DNS	Domain Name	
	DNS Server IP Address(es) (Enter up to 3 addresses) Note: The following IP address ranges are prohibited from use: <ul style="list-style-type: none"> ▪ 192.168.255.0 to 192.168.255.255 ▪ 10.40.101.0 to 10.40.101.255 ▪ 10.10.10.0 to 10.10.10.255 	
	DNS Search List (Enter from 1 to 6)	
LDAP	Domain Name	
	Profile Name	
	Profile Server IP Address Note: The following IP address ranges are prohibited from use: <ul style="list-style-type: none"> ▪ 192.168.255.0 to 192.168.255.255 ▪ 10.40.101.0 to 10.40.101.255 ▪ 10.10.10.0 to 10.10.10.255 	
10	Geographic Region	
11	Time Zone	
12	Create System Backup Partition	Yes No
13	Create Data Overwrite Partition (Required for Data Overwrite)	Yes No
14	Space for System Backups	
15	NFSv4 Domain Configuration	System Derived Specify different NFSv4 domain
	NFSv4 Domain (If Specify One, enter the NFSv4 Domain)	
16	Security Profile	High Medium Low Default Operating System Only

W-1 data element definitions

Primary Network Interface:

Product	Server	Value
iGen4	ES5200	e1000g0 (Without optional private network PWB) e1000g2 (With optional private network PWB)
DocuColor (242/252/260, 5000, 7000/8000) Xerox 700	PDSi Config 2b, 2c, 2d	bge0
DocuColor (242/252/260, 5000) Xerox 700	Sun Ultra 24	Determined automatically
Xerox 4590/4595, 4112/4127	Sun Ultra 20 M2	nge0
DocuColor 7000/8000	ES5100	e1000g0
Xerox 4112/4127	Sun Ultra 24	Determined automatically
Xerox Continuous Feed	PDSi Config 4	bge1
Nuvera	X86	Determined automatically

DHCP: Dynamic Host Configuration Protocol. This is a TCP/IP addressing method. If selected, the system should automatically contact the DHCP server to obtain the IP address, subnet mask, and default gateway address. This information can also be manually entered into the FreeFlow Print Server Network Configuration screens.

DHCP is the default for DocuColor 2XX. iGen3 and iGen4 may not use DHCP.

Hostname: This is the name the print server will be known as by users from other host machines on the TCP/IP network. This name is an alias mapped to the IP address that is assigned to the print server/host machine. The Hostname must start with an alphabetic character, and cannot start with a number, space, or any other non-alphabetic character.

IP Address: The IP or Internet Address is a unique 4 byte, 32 bit numeric value that is assigned to each local host and workstation on a TCP/IP network. An IP address consists of four fields, each separated by a decimal point. For example: 13.254.166.111.

NOTE: The TCP/IP Internet spans the entire world. The Internet central committee assigns a set of unique network addresses to your customer's company. The customer network administrator assigns IP address numbers within this set to each host and workstation on the network.

Subnets: A “YES” answer to this query indicates that your customer’s network is divided into segments or “subnets.” In this instance the following data element, subnet mask, must also be provided.

Subnet Mask: The subnet mask is a decimal or hexadecimal group of four fields, each separated by a decimal point that indicates how much of the IP Address is used with the Network number to create subnets. The following is an example of a subnet mask in its decimal and hexadecimal form.

255.255.0.0 = 0xff.0xff.0x0.0x0

The subnet mask is derived by the network administrator according to how many subnets are needed. The subnet mask is the same for all hosts that exist on a given network. Your customer’s network administrator can provide this information.

Ipv6: Ipv6: Internet protocol version 6. FreeFlow Print Server is now using this version of the Internet protocol. IPv6 are addresses 128 bits long versus 32 bits in IPv4. The preferred IPv6 address representation is:

xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx where each x is a hexadecimal digit representing 4 bits. IPv6 addresses range from 0000:0000:0000:0000:0000:0000:0000:0000 to ffff:ffff:ffff:ffff:ffff:ffff:ffff:ffff. IPv6 addresses may omit leading zeros. For example, IPv6 address

1050:0db8:1319:003a:0005:0600:300c:362b may be written as 1050:db8:1319:3a:5:600:300c:362b.

Default Router IP address: The default router IP address is a unique 4 byte, 32 bit numeric value, for example, 13.252.12.198 that identifies the machine that is acting as the main router. The router maintains tables of addresses of many networks in order to forward data packets between these networks. During install, the service representative creates a default router file on the print server, if one does not already exist, and this number is added to a line in the new file. Your customer’s network administrator should provide this number.

NOTE: If another machine is not identified as the default router, the print server will automatically take over the main router function. This may noticeably slow down processing on the network.

Kerberos Security: Kerberos security is a network authentication protocol that is provided with the Solaris environment. FreeFlow Print Server does not currently support this protocol.

Name Service: DNS, NIS, NIS+, and LDAP are network information services that hold user information. None indicates that the user information is held locally. Additional information for each of these services should be entered in the appropriate table in W-6. The network services are enabled and configured using the FreeFlow Print Server Network Configuration screens.

NOTE: In order to load and enable Remote Services, DNS must be the Name Service type.

Geographic Region: Enter your customer's geographical country or region. The selections available are Africa, Western Asia, Eastern Asia, Australia/New Zealand, Canada, Europe, Central America, South America, United States, Other (offset from GMT), and Other (specify rules file).

Time Zone: Enter your customer's time zone. The selections available are: Eastern, Central, Mountain, Pacific, Yukon, East—Indiana, Arizona, Michigan, Samoa, Aleutian, Hawaii, none of these (return to regional menu).

Create System Backup Partition: Backup and Restore utilities provide a means to back up and restore either a complete system image or configuration files containing user settings. These utilities are only available if a system backup partition (XRXbackup) is created. The option to create the partition is selected by default. If the option is deselected, the backup partition is not created and additional disk space is available.

NOTE: Xerox strongly recommends leaving this option checked.

Create Data Overwrite Partition: Select this option to allocate space for the Data Overwrite Software feature. It is not selected by default.

Space for System Backups: If the default value is not large enough, use this control to increase the value of the space allocated for backups. Increasing backup space reduces the amount of space allocated for root.

Security Profile: Refer to the W-2 worksheet for the security profile definitions.

W-2: Xerox Security worksheet

Security is automatically installed and set to the default secure mode of Low. Security can be modified from High (fully secure) to None (not secure) through the FreeFlow Print Server interface.

The System Administrator can modify the security levels through the FreeFlow Print Server user interface.

For additional information on security, refer to the following table and the *Xerox FreeFlow Print Server Security Guide*.

Profile	Characteristics	Value	Legacy Compatibility	Comments
None	<ul style="list-style-type: none"> Default operating system only 	For customers that have a physically closed environment	Close to DocuSP 2.1 / 3.1 with no adjustments Similar to DocuSP 3.x Medium	Anonymous FTP is read-only and restricted
Low (Default profile)	<ul style="list-style-type: none"> FTP enabled telnet, rsh disabled NFS client is enabled AUTOFS is enabled The User login can reprint from Saved Jobs and CD-ROM Terminal window is password protected Auto login is enabled 	First choice setting for nearly all marketplaces	Similar to DocuSP 3.x High Supports FreeFlow™ Prepress Suite workflow	Anonymous FTP is read-only and restricted To enable telnet, go to Setup -> FTP/Remote Diagnostics menu
Medium	<ul style="list-style-type: none"> FTP is enabled telnet, rsh disabled NFS client is disabled AUTOFS is disabled, e.g., /net/<hostname> and /home/<username> are not automatically mounted NFS server is filtered via RPC tab The User login can reprint from CD-ROM Terminal window is password protected Auto login is enabled 	For customers who need high security but also need to integrate with FreeFlow™ Prepress Suite	Supports FreeFlow™ Prepress Suite workflow	Anonymous FTP is read-only and restricted To enable telnet, go to Setup -> FTP/Remote Diagnostics menu
High	<ul style="list-style-type: none"> FTP disabled telnet, rsh disabled NFS client is disabled AUTOFS is disabled, e.g., /net/<hostname> and /home/<username> are not automatically mounted NFS server is disabled on customer network The User login cannot reprint anything Terminal window is password protected Auto login is disabled (login is always required from GUI) 	Targeted for secure sites	Does not support FreeFlow™ Prepress Suite workflow	FTP is disabled File transfer can be done via Secure FTP

W-3: Xerox FreeFlow Print Server software worksheet

The Xerox service representative uses the following information during the installation of the FreeFlow Print Server software. During this process the gateway, which allows the print server to receive documents and requests from UNIX clients, or PC clients using TCP/IP protocol, is installed.

Data Element	Customer Value
UNIX User Information	
User Name	
Password	
User Group	
Account Status	
Account Comments	
Other Input Devices (i.e. FreeFlow™ Prepress Suite)	
User Name	
User ID	
User Password	
Client IP Address	
User Comment	
Client Hostname	

W-3 data element definitions

NOTE: A new user will be created on the print server to accept print jobs from command line clients at either a UNIX or PC workstation, or both. The first five data elements, User Name, User ID, User Password, Client IP Address, and User Comment, are required for these clients.

User Name: A distinctive name that each user needs in order to gain access to the UNIX OS, which in turn associates the name to the correct User ID in a UNIX host password file that grants access.

User ID: The client user identification number that will be used to uniquely identify the new user. This is a decimal or binary number that represents a user login account. If the host machine is on an NIS network (see W-1), then the uids are managed from a central master server.

Example:

/etc/passwd entry:

```
>bob*:200:800:Bob Lin:/home/bob:/usr/bin
```

You can find the User ID by performing the following at the UNIX client workstation:

- Non-NIS network. On the command line enter the following:
cat /etc/passwd|grep [Client users name]
- NIS network. On the command line enter the following:
ypcat password|grep [Client users name]

User Password: The command line client should be prepared to provide this information during installation.

In this worksheet the term “client” refers to the actual workstation that will be used to submit jobs to the print server, and the term “user” refers to the individual submitting jobs from that workstation.

Client IP Address: The unique Internet address of the workstation that will be submitting jobs to the print server.

User Comment: Any additional information that may provide a more unique identification of the new user.

Client Hostname: The hostname of the workstation that will be used to submit jobs to the print server. This entry is used in the hosts.equiv file that is created during install.

W-4: System configuration worksheet

The Xerox service representative uses the following information during the set up and configuration of the dC105 diagnostics screen.

Data Element	Customer Value
Server Serial Number	
Printer Serial Number Supported Xerox Printer Only	
Customer Service Telephone Number	
Customer Telephone Number	
Customer Name & Address	
Market Region	
Printer Type	
Service Option	
Remote Connectivity Enabled Disabled	
Remote Phone Number	
Network Cable	Circle one: Twisted Pair Ethernet (TPE) RJ-45 Thick Net Ethernet (AUI) Coax/Thinnet
Host ID	
Ethernet Address	
IP Address of Default Router	
Virtual Printer Name	

W-4 data element definitions

Server Serial Number: The serial number for the print server platform.

Printer Serial Number: The serial number for the printer.

Customer Service Telephone Number: The 1-800 telephone number used by the customer when service assistance is needed.

Customer Telephone Number

Customer Name and Address

Market Region: Select the appropriate market region from the following list:

USCO

XL (UK)

XCI

FX

Printer Type: Enter the type of printer being installed, for example, DocuTech 6135.

Service Option: Select one of the following service options based on your customer's contract:

None

1x5 (1 Shift, M—F)

2x5 (2 Shifts, M—F)

3x5 (3 Shifts, M—F)

3x7 (3 Shifts, 7 days)

Time & Materials

Remote Connectivity: Select enabled or disabled.

Remote Phone Number: Enter the remote phone number.

Network Cable: During this process the network cable is connected to the print server. Make sure the correct network cable is available for this procedure. The only direct network cable type available on the print server platform is UTP. Any other media type requires a converter that must be supplied by the customer. A converter that provides an AUI type connection is available from Xerox.

Host ID and Ethernet Address: At the beginning of the Solaris OS software installation, this information displays on the first three lines of the Sun Microsystems banner screen. The service representative will enter both data elements on this worksheet for reference during the installation process.

IP Address of Default Router: The default router IP address is a unique 4 byte, 32-bit numeric value that identifies the machine that is acting as the main router. The router maintains tables of addresses of many networks in order to forward data packets between these networks. During install, the service representative adds this number to the system. Your customer's network administrator should provide this number.

W-5: Print Server software and gateways worksheet

Indicate which gateways and other software features have been selected by the customer to be licensed on the print server.

Data Element	Customer Value	
FreeFlow Prepress Suite Gateway	Yes	No
HTTP Gateway	Yes	No
Novell NetWare Gateway	Yes	No
AppleTalk Gateway	Yes	No
IPP Gateway	Yes	No
TCP/IP Socket Gateway	Yes	No
Online Gateway	Yes	No
Tape Client Gateway	Yes	No
SNMP Gateway	Yes	No
PostScript Decomposer/Interpreter	Yes	No
PCL Decomposer/Interpreter	Yes	No
TIFF Decomposer/Interpreter	Yes	No
LCDS Decomposer/Interpreter	Yes	No
PPML Decomposer/Interpreter	Yes	No
IPDS Decomposer/Interpreter	Yes	No
Imposition	Yes	No
Kanji Fonts (Double byte fonts used in Asian countries only)	Yes	No
Xerox Diagnostics with Productivity Tools	Yes	No
Third Party ISO Diagnostics	Yes	No
Customer Productivity Workshop Diagnostics (eXcellerate)	Yes	No
Job Preview	Yes	No
Page Parallel RIP (Color only)	Yes	No
VIPP	Yes	No
Data Overwrite	Yes	No
Preflight	Yes	No
Image Quality Package	Yes	No
Remote Services	Yes	No

W-6: Network configuration worksheet

Fill out the appropriate worksheet for the network configuration the customer is using. This information is used to configure the network through the FreeFlow Print Server Network Configuration screens.

For further information on each network configuration, refer to the FreeFlow Print Server on-line help.

IP Configuration

Two options are available for configuring TCP/IP on the FreeFlow Print Server.

Static IP configuration requires that the System Administrator enter the hostname, IP address, default router gateway, and subnet mask information into the Network configuration UI. This information is available on Worksheet W-1.

DHCP, or Dynamic Host Configuration Protocol, retrieves the values for the configuration from the DHCP server on the network. The System Administrator can rewrite the hostname.

NIS/NIS+

The Network Information Service (NIS and NIS+) provides simple network lookup services. The purpose of NIS and NIS+ is to provide information that needs to be known throughout the network to all machines on the network.

If the Domain Name, Server IP Address, and Server Name are not known, select Find One in the dialog. The appropriate information is obtained from the NIS/NIS+ server on the network. The server must be configured to accept broadcast requests.

Data Element	Customer Value
Find NIS+ Server	Find one Specify
NIS/NIS+ Domain Name	
NIS/NIS+ Server IP address	
NIS/NIS+ Server Name	

DNS (Domain Name System)

DNS provides the ability to map hostnames to IP addresses, as well as a mechanism for storing and retrieving information on the network. If the customer is using DNS for Hostname resolution on their network, fill out the appropriate information below.

Dynamic DNS extends the capability of DNS to allow for dynamic updates to the database. If the customer is using Dynamic DNS, select to enable **Dynamic DNS Registration**.

Domain Name specifies the local domain name.

DNS Server List specifies the IP address or addresses of the name servers that the system is to query.

Domain Search List specifies the look up list of host names. The local domain name should be listed as a default.

Data Element	Customer Value
Dynamic DNS Registration	Yes No
Domain Name	
DNS Server List (IP Address or Addresses of the DNS Servers)	
Domain Search List	

WINS (Windows Internet Name Service)

WINS provides the ability to easily locate devices on a network. WINS maintains a database of NetBIOS names to IP address mappings so users or applications can specify a name instead of an IP address for a particular resource on the network.

The Primary WINS Server IP address can be entered and used for all WINS and SMB operations.

If the Primary WINS Server field is left empty, the WINS client broadcasts the request to the first available WINS server on the network.

Data Element	Customer Value
Primary WINS Server	

Active Directory Services (ADS)

Active Directory Services is a Windows-based name service typically used with Windows NT or 2000.

Data Element	Customer Value
ADS Domain	

SMB/FTP Filing capability

This feature enables the ability to transfer files or save jobs to locations on the network.

SMB Filing is the underlying protocol for WINS. In order to use SMB, WINS has to be enabled and a NetBIOS name entered into the field.

FTP and SFTP are protocols used to transfer files between two computer systems. SFTP, Secure File Transport Protocol, encrypts the data for security.

Data Element	Customer Value
SMB Filing	Yes No
FTP Filing	Yes No
SFTP Filing	Yes No
NetBIOS Name (FreeFlow Print Server Hostname from W-1)	

Connections

The Connections feature is set to Automatic on install, allowing the FreeFlow Print Server software to automatically detect the highest speed available.

However, if the customer is using an older speed hub or has a configuration that requires manually setting the Ethernet speed, note the required speed below.

Data Element	Customer Value
Ethernet speed (Speeds available are dependent upon the installed Ethernet interface card)	Automatic 10 mbit/sec 100 mbit/sec 1000 mbit/sec
Ethernet MAC Address	Automatically filled in

W-7: Novell NetWare gateway installation worksheet

Fill out this worksheet only if the customer has purchased the Novell Connectivity — QServer gateway.

The Novell NetWare software is the gateway that allows clients to communicate through a Novell Server (PC) to the FreeFlow Print Server. Your customer's network administrator or the Xerox Systems Analyst at each Novell server who will be submitting documents to the print server gathers the information in this worksheet. At install, the service representative uses this information to set up and configure the QServer gateway software on the print server. The QServer software is included in the FreeFlow Print Server installation.

Item #	Data Element	Customer Value
1	Novell Internet Net Number	
2	Novell Net Number	
3	Framing Type (Circle one)	Ethernet 802.3 Ethernet II
4	Novell File Server Name	
5	Novell Print Queue Name	
6	Novell Print Server Name	
7	Novell Print Server Password	
8	Print Server Operator User Name	
9	Print Server Operator User Password	
10	Novell Printer Name	
11	Novell Account Login	

W-7 data element definitions

This section defines the data elements determined by the network administrator or the Xerox Systems Analyst during the setup of the NetWare Gateway on each Novell Server who will be transferring documents from Novell clients to the print server.

To support a smoother, faster install process, make sure these data elements are known and entered in this worksheet before the scheduled day of installation.

Novell Internet Net Number: This is the internal network number, assigned to the print server that identifies the FreeFlow Print Server on the Novell network. This data element must be a new, eight-digit hexadecimal number that is a unique number on the Novell network, and is available from the network administrator.

NOTE: If necessary, pad the number with zeros from the left to achieve the eight digits.

Novell Net Number: This is an eight-digit, hexadecimal, network number that identifies the Novell network. The external network number can be any number defined that falls within the range of 1 to FFFFFFFF.

NOTE: This number must be the same on both the Novell server and the print server.

You can find the Novell network number by entering the CONFIG command at the Novell File Server system console prompt, as in the following Frame type ETHERNET_802.3 example. The network number is in bold on the last line of this example, as the LAN protocol IPX network number. This number may also be referred to as the Ethernet Net Number.

File server name: **Cust 2**
IPX internal network number: 0123A.B09

```
Novell NE2000
Version 3.25 June 17, 1993
Hardware setting: I/O Port 300h to 31Fh,
Interrupt 3h
Node address 00009B99E999
Frame type: ETHERNET 802.3
Boardname: PUBLIC
LAN protocol: IPX network 000BB09
```

At this point, make a note of the name of the file server since it will be needed later. This information will appear after the entry **File server name**. The comparable ETHERNET_II entry would look like the following example where the name of the file server is **Cust_2** and the network number is in bold on the last line as the LAN protocol IPX network number. Remember, this is an example, and your setup will most likely be different.

File server name: **Cust 2**
IPX internal network number: 0123AB09

Novell NE2000
 Version 3.25 June 17, 1993
 Hardware setting: I/O Port 320h to 33Fh, Interrupt 2h
 Node address: 00009B99E9B9
 Frame type: ETHERNET II
 Boardname: DOCUTECH
 LAN protocol: ARP
 LAN protocol: IP address 13.254.166.111 mask
 FF.FF.FC.O
 Interrupt 2h
 LAN protocol: XNS
 LAN protocol: IPX network **0000BB09**

Printer and queue names must be unique and can be made up of a maximum of 14 alphanumeric characters and underscores.

Framing Type: Necessary for install and must be the same as the Novell File Server. The framing type is used to determine the following two data elements:

ETHERNET_802.3
 ETHERNET_II

NOTE: If the network will be running both Novell NetWare and AppleTalk, the framing type must be ETHERNET_II.

NOTE: Selecting multiple framing types may cause the network to slow down.

Novell File Server Name: Enter the name of the file server on which the print queue, print server, and printer will be created or already reside.

Novell Print Queue Name: This print queue will hold the print jobs until the Xerox server is ready. Enter the name for this queue in this column.

Novell Print Server Name: The Novell print server submits the job from the queue to the Xerox server. Enter the name for this server in this column.

Novell Print Server Password: The Novell Network administrator password.

Print Server Operator User Name: The name of the Novell print server user with the capability to operate the Novell print server. The print server uses this operator account to manage operations with the Novell Server. Enter the full <User Name> for this user as the data element.

Print Server Operator User Password: The print server operator should be prepared to provide this information at the time of the gateway setup.

Novell Printer Name: One printer, of a type Remote Other/Unknown, will be created at this time to represent the Xerox printer. Enter the name for the printer in this column, for example, DT6135, to represent a DocuTech 6135 printer.

Novell Account Login: The user's Novell account user name and password.

W-8: AppleTalk Gateway installation worksheet

If the customer has purchased the AppleTalk Connectivity — Apple PAP gateway, fill out this worksheet.

Item #	Data Element	Customer Value
1	AppleTalk Phase Type	
2	AppleTalk Zone Name	

W-8 data element definitions

AppleTalk Phase Type: There are three AppleTalk Phase Types:

- **Phase 1** (non-extended network) is a single physical network that can support up to 254 mode addresses (devices). There is only one network number and one zone assigned to the network.

Phase 1 is not configured as Phase 1, but should follow the Transition mode install procedure. This is done so that Macintosh Transparent Printing can be enabled.
- **Phase 2** (extended network) is a network in which there are two or more network numbers assigned to a single physical network. Each network number on an extended network is an addressing channel that can support 253 devices and only one zone name. Phase 2 routers can be configured to support non-extended networks.
- **Transition mode** (Phase 2 Transition) is a way of configuring a Phase 2 router so that it can function on an Internet that includes Phase 1 routers. Since Phase 1 routers cannot recognize multiple network numbers or multiple zones on a network, a Phase 2 router in the transition mode is deliberately limited to addressing only 253 devices.

You can determine which EtherTalk phase type is running by completing the following steps:

1. Select the Control panel from the Apple Menu Icon (upper left corner of the screen on a Macintosh).
2. Double-click the Network icon.
3. The icon describes the phase type:
 - a. An icon showing two single opposing arrows represents EtherTalk 1.0 (Phase 1).
 - b. An icon showing two double opposing arrows represents EtherTalk 2.0 (Phase 2).

If the EtherTalk 2.0 icon appears, double-click the icon and see if an Internet router is found. If one is found, a panel appears telling the user they belong to "SOMEZONE", which is the network default zone and the first one in the list, if a zone list exists. Be careful not to make assumptions and be sure to obtain detailed network specific information from the site network administrator. The network administrator may try the AppleShare icon first to see the network for which the Macintosh is currently configured. Remember, the network can be toggled between whatever network icons appear in the Control Panel and, since LocalTalk is built-in, LocalTalk may be selected as well.

AppleTalk NLM Zone Name: For a Novell Server running AppleTalk, this represents the name of the zone in which the Network Server will reside. The zone name is also assigned in the Load AppleTalk statement. This refers to the parameter "Apple-big-zone".

NOTE: If the network will be running both Novell NetWare and AppleTalk, the frame type must be Ethernet_II.

W-9: SNMP Gateway installation worksheet

If the customer is planning on using the SNMP Gateway, fill out this worksheet. When SNMP is installed and licensed, items such as the Printer ID are automatically configured.

Data Elements	Customer Value	
Enabled	Yes	No
Authentication Traps	Yes	No
Client IP Address		
Client Port Number		
Trap Persistence		
Trap SNMP Version	SNMP v.1	
Traps Type: Printer Alert Cold Start Warm Start Link Up Link Down Authentication Failure	On On On On On On	Off Off Off Off Off Off
SNMP Serial numbers: Tray 1 Tray 2 Tray 3 Tray 4 Tray 5 Tray 6		
Stacker		
Finishing Device(s)		

W-9 Data elements

Enabled: The System Administrator can enable or disable the SNMP gateway as needed.

W-10: Client workstations

The client submission software is now available in the following:

- ◆ CentreWare drivers designed and packaged for each supported printer. Follow the installation instructions packaged with the drivers.
- ◆ FreeFlow Print Manager. Follow the installation instructions provided with the software.

W-11: PrInteract Remote Services

If the customer has agreed to enable and use Remote Services, the following information is necessary to configure the FreeFlow Print Server and Remote Services interface.

Item #	Data Element	Customer Value
1	IP Address	
2	Port	
3	DNS Name With DNS – Use the Hostname Without DNS – Use the IP Address	
4	Level of Internet access allowed by the customer	Full Internet access No Internet access
5	Is a firewall used to restrict Internet access to the customer's network?	Yes No
6	If a firewall is used: HTTP Proxy Server IP Address User Name (If required) Password (If required)	
7	Does the firewall restrict data transmission in any way (For example, .zip files blocked)? List the restrictions below:	Yes No

W-12: Data Overwrite and Backup Configuration

If the customer has agreed to enable and use data overwrite and/or backup services, the following information is necessary to configure the FreeFlow Print Server. If the data overwrite box is not checked, the data overwrite software should not be installed or used. Data overwrite will not work. The customer will need to scrape the system and check the data overwrite box.

Item #	Data Element	Customer Value	
1	I plan to use data overwrite on this system	Yes	No
2	I plan to use backup configuration	Yes	No
3	How much space do you want to set-aside for backups? <i>NOTE: Selection is via on-screen slider bar.</i>		