



# **SOHO Network Attached Storage 500012 User's Guide**

The enclosed Hardware Installation Guide gives you a step-by-step explanation of how to install your Network Attached System (NAS). Further technical assistance and all updated drivers can be accessed at [www.intellinet-network.com](http://www.intellinet-network.com)

Here you have access to 24hour support and can contact our support team to answer any questions you may have.

In order to provide the requested support we need the following details from you:

- A clear description of the problem;
- Version number of the drivers you are using (always check the website to see whether you are using the latest version);
- Type of PC you are using;
- Operating system you are using

For more information about INTELLINET products, please visit the INTELLINET Web Site:

[www.intellinet-network.com](http://www.intellinet-network.com)

## ATTENTION!!

The Software installation as described below, may be slightly different from the installation on your computer. This depends on the Windows version you are using. Contents are subject to change without prior notice.

If you are shipping this product after installing a hard drive, please ensure that you take adequate measures to protect the system from shock levels that can be damaging to the installed hard drive.

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# 1. Introduction

The INTELLIENT 500012 NAS is an intelligent storage solution for small offices and home network environments. It provides high speed networked storage that is ideal for sharing music, pictures, and real-time motion video files.

With its support of industry-standard protocols, The INTELLIENT shared network storage can easily be added to your existing network. In addition, network management and security is simplified through the INTELLIENT web-based user interface.

## 1.1 Network Attached System Basic

Network Attached storage (NAS) is hard disk storage that is set up with its own network address rather than being attached to the department computer that is serving applications to a network's workstation users. By removing storage access and its management from the department server, both application programming and files can be served faster because they are not competing for the same processor resources. The NAS device is attached to a local Ethernet network and local server assigned an IP address.

NAS consists of HDD storage and software for configuring and mapping file locations to the network-attached device. NAS can be a step toward and included as part of a more sophisticated storage system known as a storage area network (SAN).

NAS software can usually handle a number of network protocols, including Microsoft's Internet work Packet Exchange and NetBEUI, Novell's Netware Internet work Packet Exchange, and Sun Microsystems' Network File System. Configuration, including the setting of user access priorities, is usually possible using a Web browser.

## 1.2 System Specification

|                               |                                                                                                                                                         |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Processor:</b>             | Intel® IXP420 Network Processor with 266MHz                                                                                                             |
| <b>System Memory:</b>         | 64MB SDRAM                                                                                                                                              |
| <b>Flash Memory:</b>          | 8MB                                                                                                                                                     |
| <b>Capacity:</b>              | One 3.5" IDE controller with Ultra DMA-133<br>Hard Disk Capacity support up to 250GB                                                                    |
| <b>USB:</b>                   | Support two USB 2.0 ports                                                                                                                               |
| <b>Network:</b>               | 10/100Mbps Fast Ethernet by RJ-45 connector.                                                                                                            |
| <b>Extended Function:</b>     | CIFS/SMB file formats.<br>Access Control<br>Disk management<br>Share management.<br>Multilingual code-pages.<br>USB Printer Server<br>USB Expansion HDD |
| <b>LED Indicator:</b>         | Total of four LED's for Power/Status/HDD1/HDD1 Full at faceplate.                                                                                       |
| <b>Form Factor:</b>           | Portable Desktop.                                                                                                                                       |
| <b>Dimension:</b>             | 204(D) x 96(W) x 186(H) mm.                                                                                                                             |
| <b>Weight:</b>                | Net Weight: 1.5kg and Gross Weight: 2.5kg.                                                                                                              |
| <b>Operation Temperature:</b> | 0~40 °C                                                                                                                                                 |
| <b>Humidity:</b>              | 0~95%RH.                                                                                                                                                |
| <b>Agency Certification:</b>  | CE/FCC.                                                                                                                                                 |
| <b>Power Specification:</b>   | External Power Adaptor (100~240V/60Hz/1.7A).                                                                                                            |

## 1.3 LEDs:

The INTELLIENT NAS has 4 LEDs as shown below:

| LED   | Color | Status   | LED Activity          |
|-------|-------|----------|-----------------------|
| Power | Blue  | On       | Power On              |
|       |       | Off      | Power Off             |
| LAN   | Green | Flashing | Transfer/Receive Data |
| HDD   | Green | Flashing | Read/Write Data       |
| HDD/F | Green | On       | HDD Full              |
|       |       | Off      | HDD have free space   |

## 1.4 Package Contents

- One Network attached system with the Main Board and FAN.
- One RJ45 Cable.
- One Parallel ATA IDE Cable for Hard Disk Only
- One Power Code for Hard Disk Only
- One Power Adapter 12VDC, output 1.7A.
- One Power Cord.
- One Installation CD (Manual on CD).
- One Quick Installed Guide (QIG).

*Note: Using a power supply with a different voltage rating than the one included with the Network Attached Storage will cause damage and void the warranty for this product. If any of the above items is missing, please contact your reseller.*

## 1.5 Feature and Benefits

Quick and Easy installation

Compatible with Windows 2000 SP2 or above.

Compatible with Linux system.

Additional drive capacity with USB2.0 ports

Built-in print server

Built-in FTP server

Silent Internal Fan

Web Based User Interface (Web UI)

Support Auto-MDI/MDIX

External Power Adapter

## 1.6 System Requirements for Configuration

- Computer with Windows2000 SP2 or above, Windows XP and Linux-based operating system with an installed Ethernet adapter
- Internet Explorer or Netscape Navigator version 6.0 or above, with JavaScript enabled

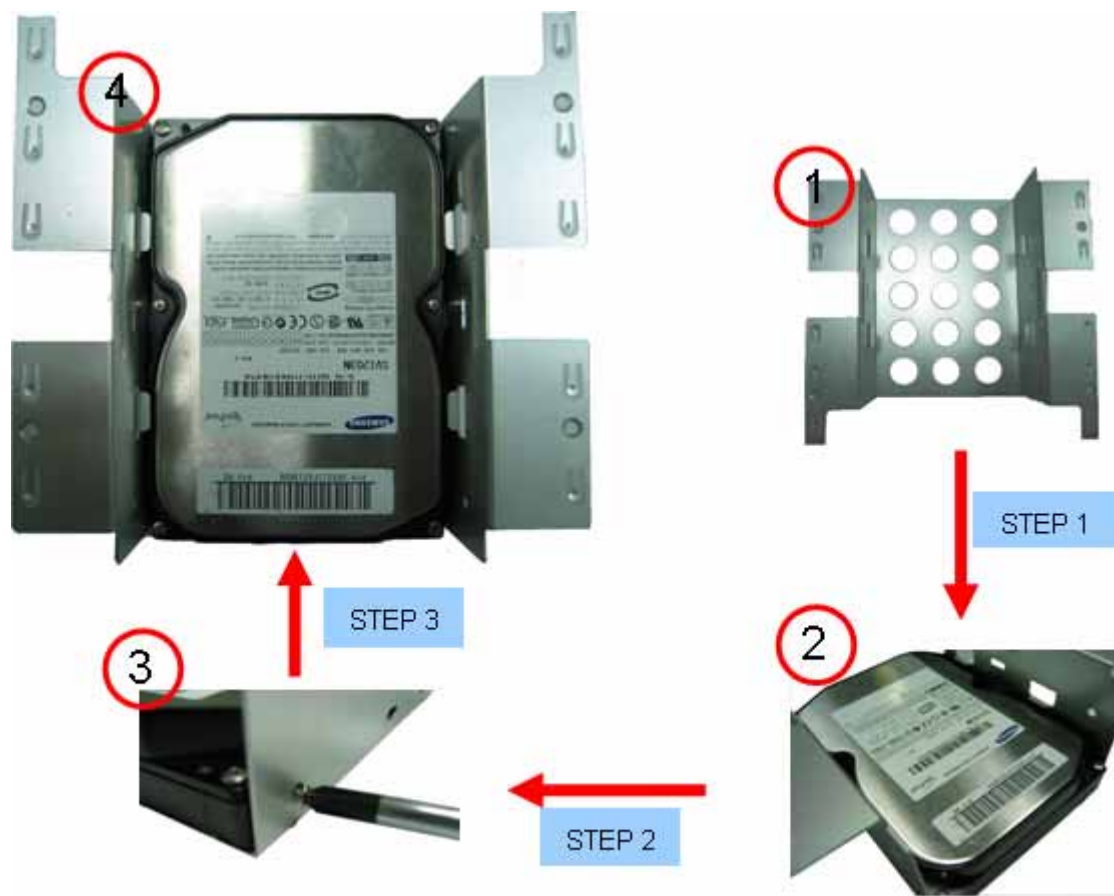
## 2. Quick Installation

### Before you start

Everything you need to boot this system is included in this Quick Installation Guide. For more information, a complete Online User's Manual can be found in the Bonus Pack CD Disc.

### System Installation.

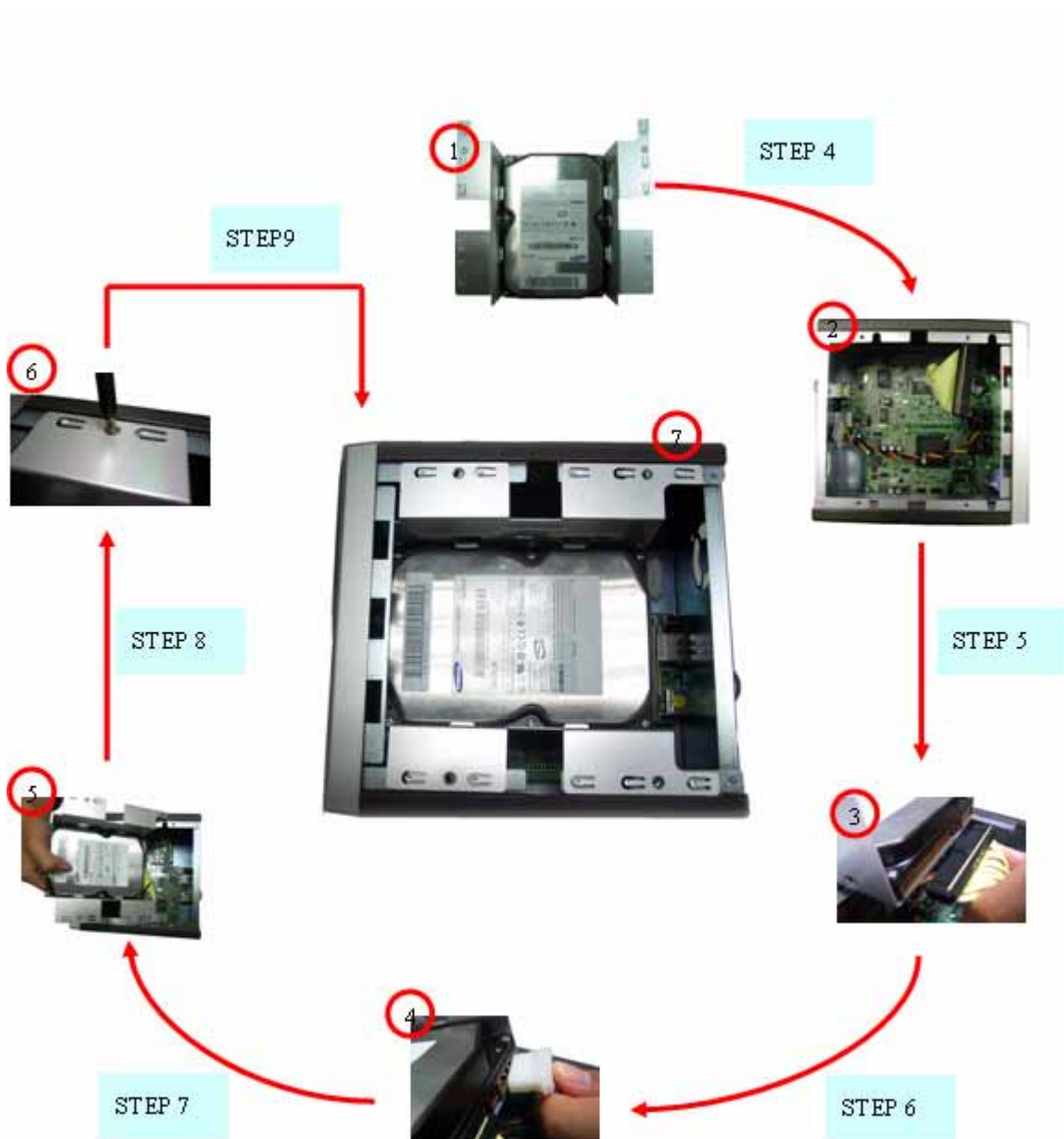
#### 2.1. HD tray installation guide



Step 1: Draw out the HDD tray from the system. Install HDD in the tray.

Step 2: Screw the HDD on the tray.

Step 3: HDD assembled in the tray.

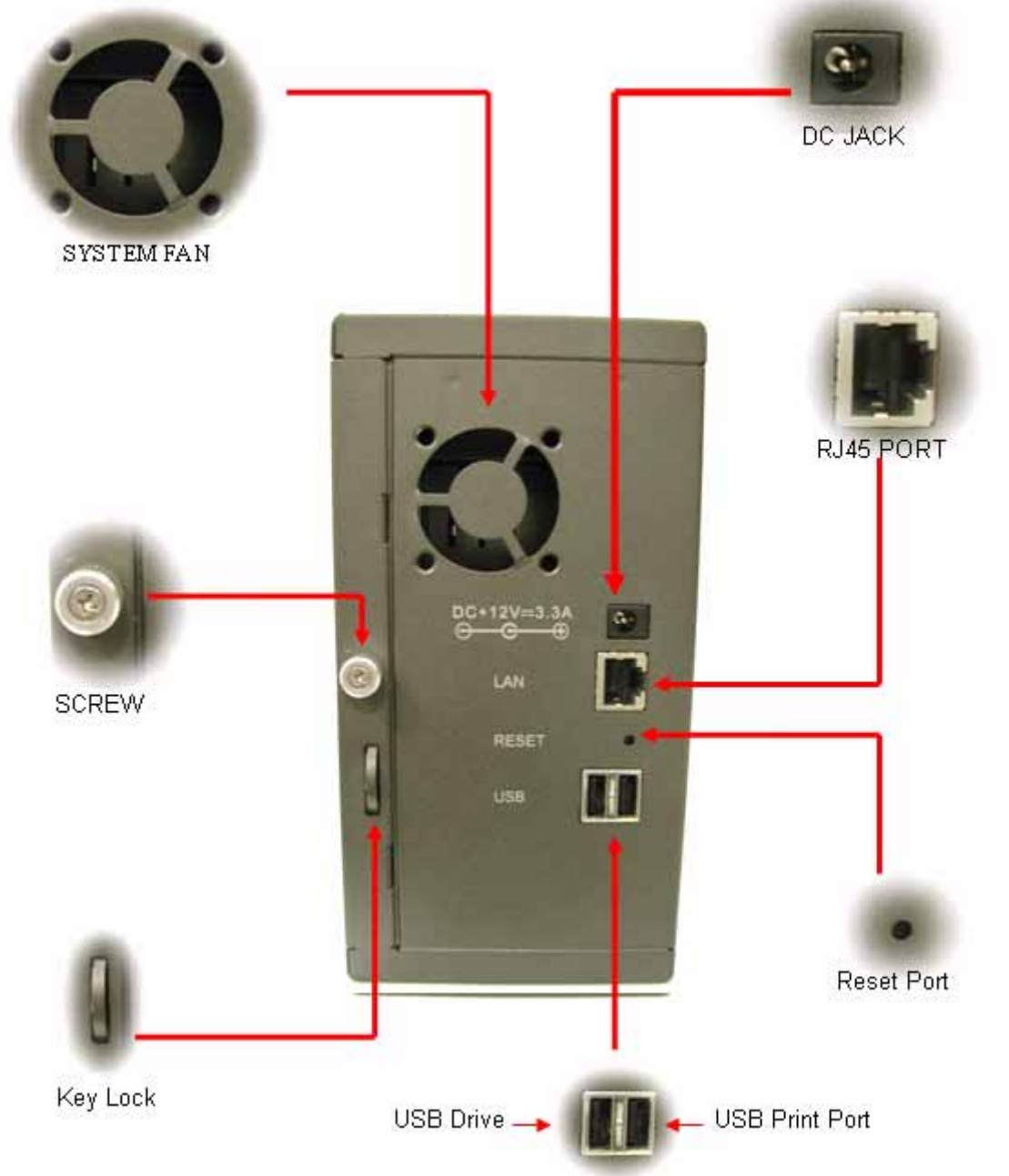


- Step 4: Assembled HDD tray  
Step 5: Insert IDE cable into HDD.  
Step 6: Insert power cable into HDD.  
Step 7: Install assembled HDD tray into system.  
Step 8: Screw HDD tray on the system.  
Step 9: Cover the system with top chassis.

## 2.2. System outlook and LED



## 2.3. I/O port on the back side



Notice: The left USB port only support HDD or flash drive, and the right USB port only support printer.

## 2.4. Software installation

Step 01: Power on the system.

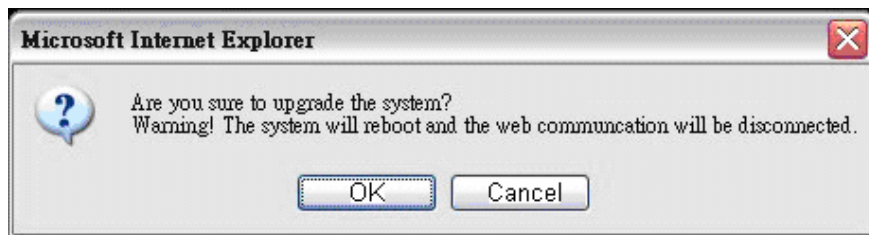
Step 02: Insert Utility CD into CD-ROM

Step 03: Open your Internet browser and key in the address **http://192.168.0.1**. You will see the below picture. **(Notice: Set the IP of client system as the same domain)**

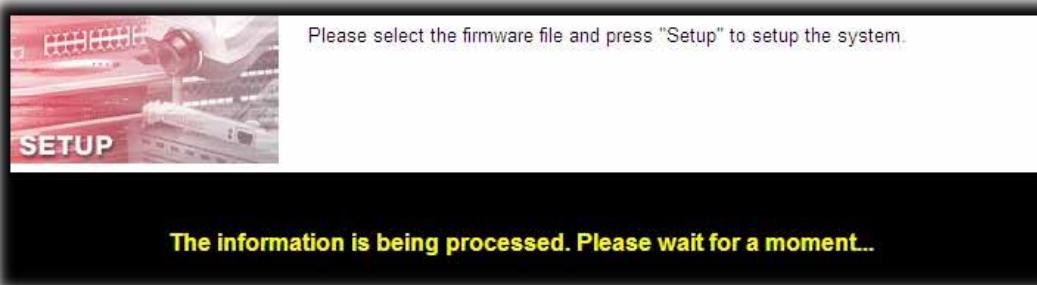


Step 04: Press button "Browse" and search "PKG" file in the CD. (Default path is "x:\Firmware") then push the "Setup" button.

Step 05: Before you push the "OK Button" for next step.



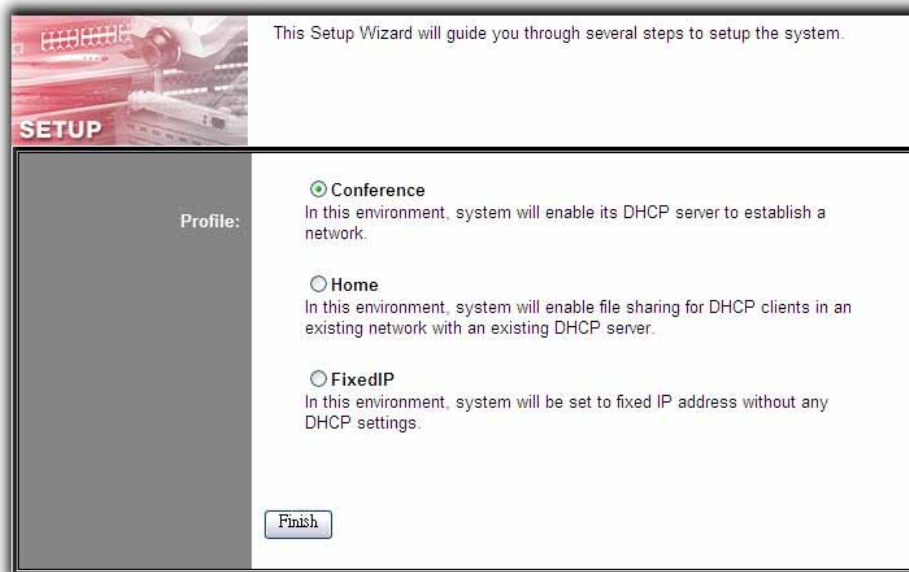
Step 06: **Please do not power off either your computer or the NAS during this process. This could take a few minutes depending on your hard drive capacity.**



Step 07: When the system upgrade process is completed, you will see the message below in your web browser.

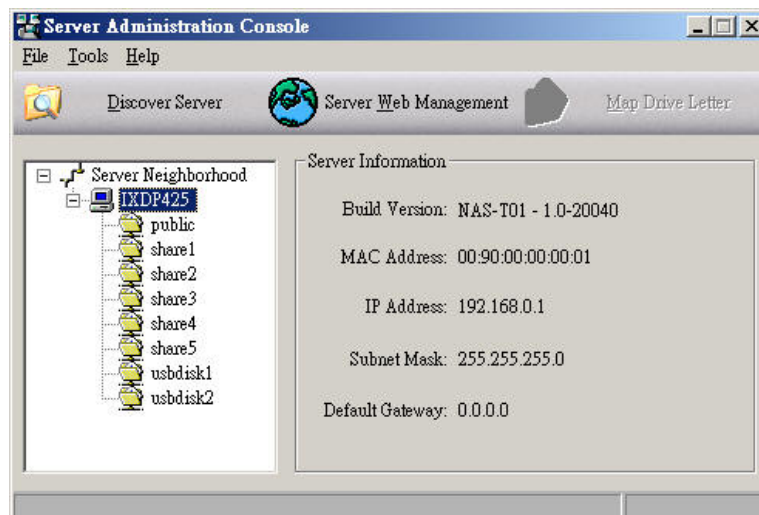


Step 08: Please choose the suitable profile. (Default is Conference Profile)



Step 09: Please install the client engine software from the CD. (Path is x:\application)

Step 10: Click “Administration Console” to operate



Step 11: Click the “Server Web Management” and key in the default username and password”, then you can access the system setup.

**(Notice: The System Default Username and Password is “admin”)**



### 3. Software Instruction

By default, the INTELLIENT NAS is shipped without a hard disk. A hard disk is needed to be installed before the product can provide services. For installing a hard disk, please refer to the INTELLIENT NAS *Installation Guide*.

#### INTELLIENT NAS Administration Console installation

##### Requirements and Restrictions

- INTELLIENT NAS Administration Console machines must run on Windows XP or Windows 2000 (Professional, Server, or Advanced Server) with Service Pack 2 or above.
- If you are going to use the Intellinet NAS to boot clients, the NIC in each protected client must support Preboot eXecution Environment (PXE) v.99j or above. To verify that your NIC supports this, check the system BIOS. The boot device will be listed as “Intel Boot Agent...” or “IBA...” or “PXE Agent...”

#### 3.1 Installation

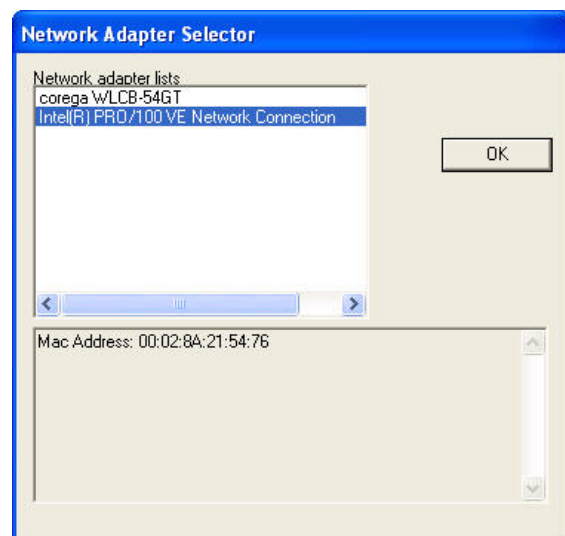
The INTELLIENT NAS Administration Console must be installed on each machine from a local drive. You must be an administrator or equivalent to install the package.

Note: During the installation, network services will be temporarily be disconnected.

1. Insert the INTELLIENT NAS Administration Console installation CD into your CD-ROM drive.
2. Navigate to the \Client\Windows directory and run setup.exe to launch the install program.

Note: During the installation, the Microsoft “Digital Signature Warning” window will appear to indicate that the software has not been certified by Microsoft. Click YES to continue the installation process.

3. When selecting the network adapter, remember to select the “wired” interface, because the “wireless” interface doesn’t support PXE. You cannot boot up from the network if you select the wireless interface in this step.
4. When done, click finish.  
You will need to reboot the machine when the installation is finished.



### 3.2 Web management

INTELLIENT NAS is shipped with a set of web management pages to help you manage your system. When the system boots for the first time, the default IP address is 192.168.0.1. You can connect to it via a web browser, such as Microsoft Internet Explorer (suggest to use version 6.0 or above), and you will see the dialog below:



**User name:** User name for web management. The default value is “**admin**” and cannot be changed.

**Password:** Password for web management. The default value is “**admin**” and can be changed.

*Note that only one login is allowed at any given time.*

*Note that it will take a while before you can connect to the web interface after power on. After the “SYS ALERT” LED stops blinking, the system is completely booted and ready for administration..*

### 3.2.1 System Tab

The System tab allows you to configure basic system settings, such as hostname, comment, workgroup, date/time, time zone, and administrator password.

**INTELLINET**  
ACTIVE NETWORKING

**SYSTEM**

This screen contains system information including hostname, date, time, time zone, etc. For security reasons, you should set a password on your Server. Your password must be less than 8 characters. (Note that it will take a while when changing the hostname, comment, or workgroup.)

**Host Name:** IXDP425

**Comment:** IXDP425

**Workgroup:** WORKGROUP

**Date (Month/Day/Year):** 09 / 22 / 2004

**Time (Hour:Minute):** 20 : 08

**Time Zone:** UTC

**Administrator Password:** ..... (Enter New Password)  
..... (Re-enter To Confirm)

Apply Cancel

**Host Name:** Host name of NAS server.

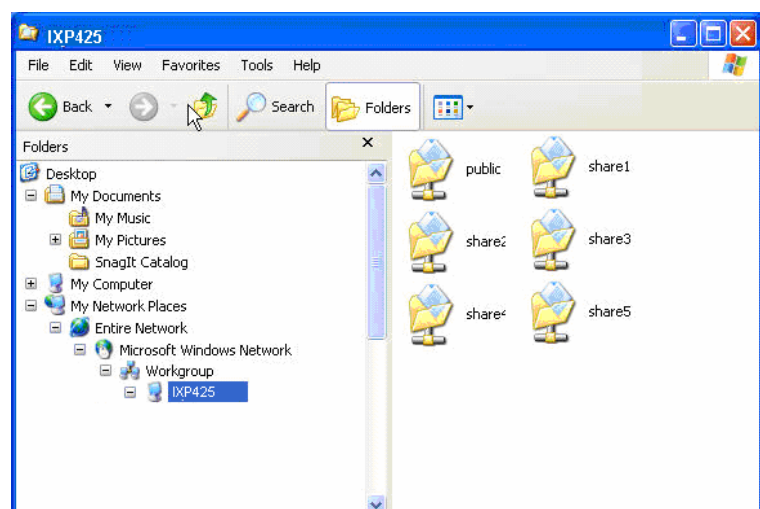
**Comment:** Additional description of this INTELLIENT NAS server. You can see it from My Network Places (in Microsoft Windows).

**Workgroup:** The workgroup to which this INTELLIENT NAS server belongs.

**Date/Time:** System date/time information.

**Time Zone:** System time zone.

**Administrator Password:** The default administrator password for web management is “admin” but can be modified. The max length is 8 and an empty string is not allowed.



### 3.2.2 Network Tab

The Network Tab allows you to configure network-related settings.

**INTELLINET**  
ACTIVE NETWORKING

SYSTEM NETWORK SHARE USB STATUS ADVANCED RESET LOG OUT

On this screen, you can set up your network, including wired settings, wireless settings and DHCP server configuration.

**NETWORK**

Current Profile: 1 - Conference  
 Profiles: Profile 1  
 Profile Name: Conference

**Wired**  
 Mode: Use The IP Below  
 IP Address: 192 . 168 . 0 . 1  
 Subnet Mask: 255 . 255 . 255 . 0

**DHCP Server**  
 Status: Enabled  
 Start IP Address: 192 . 168 . 0 . 2  
 End IP Address: 192 . 168 . 0 . 254  
 Gateway Address: 0 . 0 . 0 . 0  
 DNS Address: 0 . 0 . 0 . 0

**FTP**  
 Enabled

Apply Cancel

**Profile:** There are three predefined profiles available to make the setup process easier. They are *Profile1-Conference*, *Profile2-Home* and *Profile3-FixedIP*. You can simply select and apply one of these predefined profiles. By default the system is configured for *Profile1*.

**Wired:** Network settings for the wired interface.

**IP Address:** IP address of the system.

**Subnet Mask:** Subnet mask of the system.

### 3.2.3 Share Tab

The Share tab allows you to configure shares, including share name, share mode and password.

**INTELLINET**  
ACTIVE NETWORKING

SYSTEM NETWORK SHARE USB STATUS ADVANCED RESET LOG OUT

On this screen, you can set up your network, including wired settings, wireless settings and DHCP server configuration.

**NETWORK**

Profiles: Current Profile: 1 - Conference  
 Profile Name: Conference

**Wired**  
 Mode: Use The IP Below  
 IP Address: 192 . 168 . 0 . 1  
 Subnet Mask: 255 . 255 . 255 . 0

**DHCP Server**  
 Status: Enabled  
 Start IP Address: 192 . 168 . 0 . 2  
 End IP Address: 192 . 168 . 0 . 254  
 Gateway Address: 0 . 0 . 0 . 0  
 DNS Address: 0 . 0 . 0 . 0

**FTP**  
 Enabled

Apply Cancel

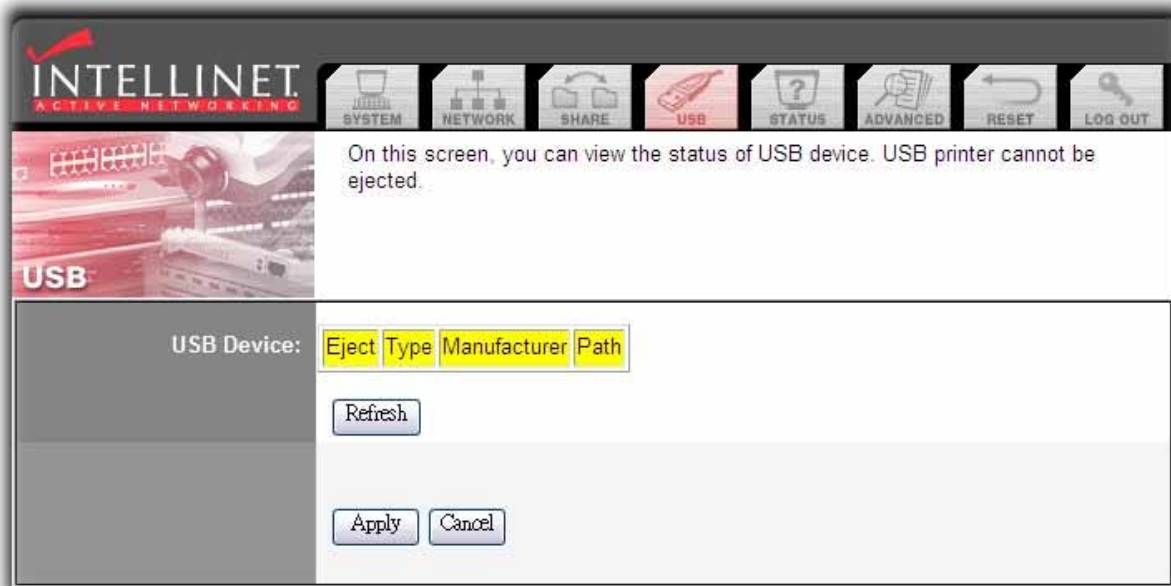
There are six predefined network shares (public, share1, share2, share3, share4 and share5). These can be accessed by clients from My Network Places (in Microsoft Windows). You cannot add a new share or delete any of these predefined shares.



For each share, you can modify the share name, change the passwords, and set the access mode to one of the following: *Full Access*, *Read Only* and *According to Different Password*.

### 3.2.4 USB Table

INTELLIENT NAS provides an expandable, hot-pluggable Plug and Play serial interface that ensures a standard, low-cost connection for peripheral devices. Devices suitable for USB range from simple input devices such as printers and storage devices. You can use this function to addition or remove any USB device.



### 3.2.5 Status Tab

The Status tab displays basic system information including the status of its services and disk space usage.

**INTELLINET**  
ACTIVE NETWORKING

On this screen, you can view basic system information, including the status of services and disk space usage.

**STATUS**

| Services Status: | Service | Status    |
|------------------|---------|-----------|
|                  | CIFS    | [RUNNING] |
|                  | HTTP    | [RUNNING] |
|                  | DHCP    | [RUNNING] |
|                  | FTP     | [RUNNING] |

**Disk Space Usage:**

|                       |           |
|-----------------------|-----------|
| Total Size            | 114227 MB |
| Sharing Storage       |           |
| Total Sharing Storage | 112413 MB |
| Used Size             | 35 MB     |
| Available Size        | 112378 MB |

**Log:**

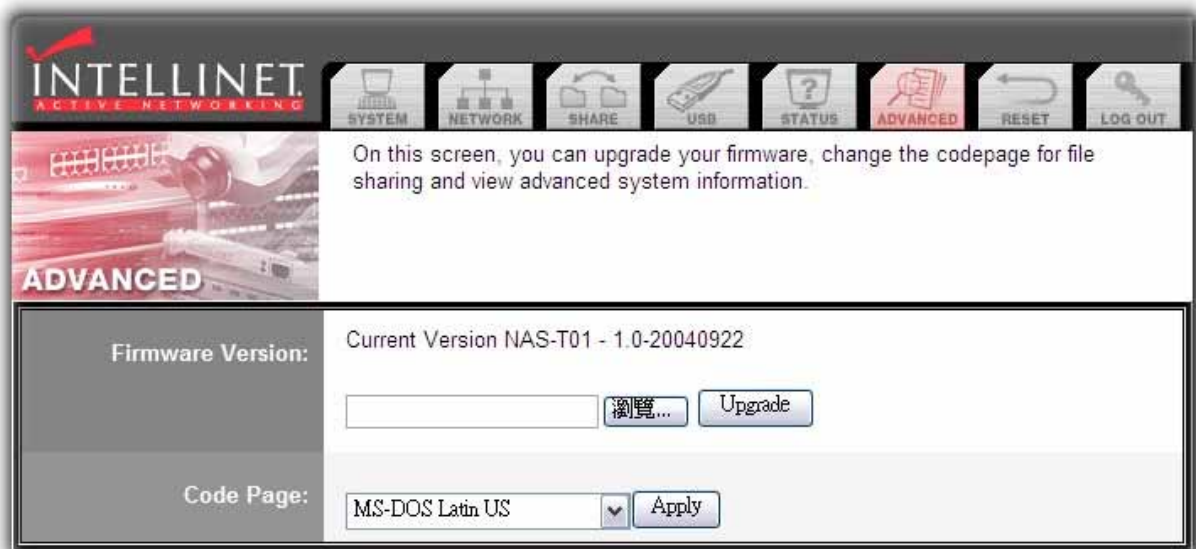
Current Connection: ▼ Refresh

| Share    | User                     | Login Time               |
|----------|--------------------------|--------------------------|
| usbdisk2 | fredchang (192.168.0.99) | Wed Sep 22 20:07:58 2004 |

*Note that you will not see the whole information before system is ready, i.e. when "SYS ALERT" led is blinking or on.*

### 3.2.6 Advanced Tab

The Advanced Tab allows you to update your firmware, codepage for share folders and view advanced system information, such as S.M.A.R.T information.



**Firmware Version:** You can upgrade the system firmware via HTTP.

**Code Page:** You can change codepage for share folders.

### 3.2.7 Reset Tab

The Reset tab enables you to delete all user data stored on the disk and revert to your configuration back to the factory default values.

The screenshot displays the 'RESET' tab in the INTELLINET SOHO NAS web interface. At the top, there is a navigation bar with icons for SYSTEM, NETWORK, SHARE, USB, STATUS, ADVANCED, RESET (highlighted), and LOG OUT. Below the navigation bar, a warning message states: 'WARNING!! If you choose to reset the system, all user data on the disk may be destroyed. BE VERY SURE YOU WANT TO DO THIS BEFORE CONTINUING!!'. The main content area is divided into two sections. The top section, labeled 'Reset option:', contains a text box with the message: 'The system will reset the configuration to the factory defaults. Do you want to REMOVE all user data on the disk, including shared files and backup data?'. Below this text box is a dropdown menu with the selected option 'No. Do not remove the data on the disk.'. The bottom section, labeled 'Administrator Password:', contains a text input field. At the bottom of the form is a 'Reset System' button.

**Reset option:** You can just restore the configurations to factory default values or remove the data on the disk in addition. Please refer to Appendix for more information.

**Administrator Password:** An administrator password is required to perform to reset the system.

**Reset System:** Resets configuration and data to factory default values including network settings, administrator password and all data on the server will be deleted. After that, a setup wizard will appear to guide you to setup the system. Please refer to Appendix for more information.

**Note:** If you use the reset function, you will need to wait until the system rebuild is complete.

### 3.2.8 Logout Tab

Select the Logout tab to log out of the system and let another administrator log in. Note that only one login session for the web management is allowed at any given time. Note that when terminating the browser abnormally (for example, closing the window using the Close button on the right top corner), you will not be allowed to log back in again for *three* minutes.



## 3.3 Usage

### 3.3.1 File Sharing

There are six predefined network shares (public, share1, share2, share3, share4 and share5). These can be accessed by clients from My Network Places (in Microsoft Windows). Clients will need to know the password for the share they are accessing. This was set on the Share tab in the administrative console. They can leave the *Connect As* field blank.



For easy access, users can map to one or more shares.

### 3.3.2 Windows clients

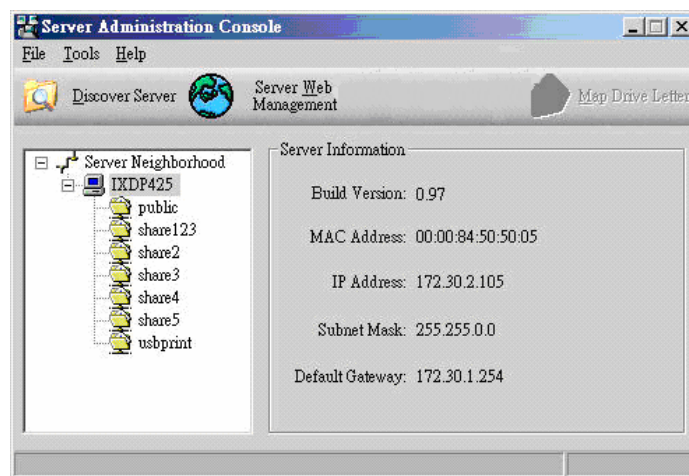
Do the following on each Windows client's computer:

1. Open Windows Explorer (or My Computer).
2. Select *Tools \ Map Network Drive*.
3. Browse to the appropriate share on the INTELLIENT NAS server.
4. Enter login information.

You can leave the *Connect As* field blank.

### 3.3.3 INTELLIENT NAS Administration Console

There is a powerful tool shipped with INTELLIENT NAS to help users to discover and access INTELLIENT NAS easily. After installing this tool from CD, you can find it in *Start -> All Programs -> INTELLIENT NAS -> INTELLIENT NAS Administration Console*. By running this tool in client side, you can find out all INTELLIENT NAS servers in the network by clicking “*Discover INTELLIENT NAS*” button. You can view the information of servers such as build version and network related settings. You can connect to the web management pages by clicking “*INTELLIENT NAS Web Management*” button. Most important of all, you can backup/restore your system and data to/from INTELLIENT NAS server.



#### Discover INTELLIENT NAS

Each time you cannot find where is your INTELLIENT NAS server, you can use this function to find out, just simply clicking “*Discover INTELLIENT NAS*” button. Then you will find all INTELLIENT NAS servers on the network.

#### INTELLIENT NAS Web Management

You can use this function to connect to the web management page. It will bring up your default browser and help to direct to the web management page.

## 3.4 FTP

### 3.4.1 FTP (File Transfer Protocol) Basic

File Transfer Protocol, a standard Internet [protocol](#), is the simplest way to exchange files between PC on the Internet. This protocol like the HTTP (Hypertext Transfer Protocol), which transfers displayable Web pages and related files, and the SMTP (Simple Mail Transfer Protocol), which transfers e-mail, FTP is an application protocol that uses the Internet public and common [TCP/IP](#) protocols. FTP is commonly used to transfer Web page files from their creator to the computer that acts as their [server](#) for everyone on the Internet. It's also commonly used to [download](#) programs and other files to your computer from other servers.

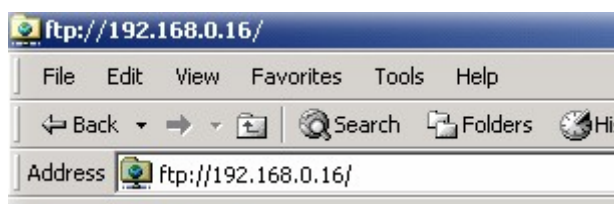
User can use Web Browser make FTP requests to download files you select from a Web page. Using FTP, you can also update (Like rename, move, copy and delete) files at a FTP server. You need to logon to an FTP server. However, publicly available files are easily accessed using anonymous FTP.

Basic FTP support is usually provided as part of a suite of programs that come with TCP/IP. However, any FTP client program with a graphical user interface usually must be downloaded from the company that makes it.

### 3.4.2 Login FTP Site

User can access the FTP site as below way.

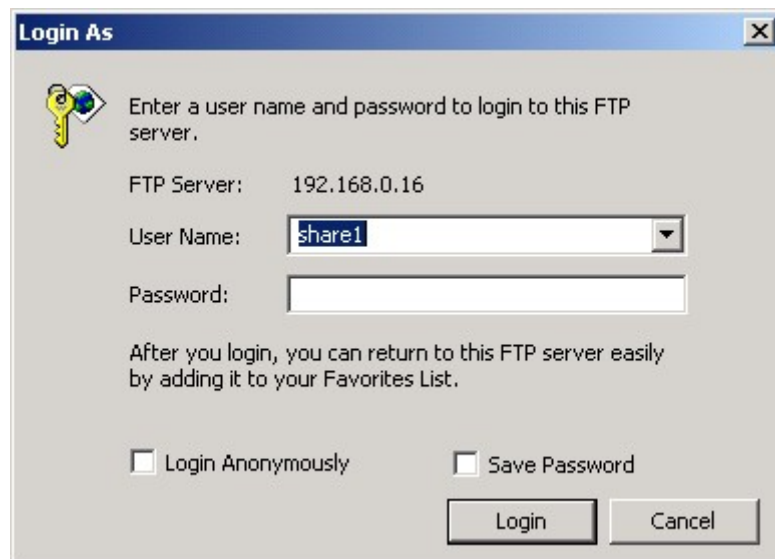
- a. Open the Internet Brower.
- b. Input the FTP IP address at address bar with the "ftp://" prefix. (For example, if the INTELLINET NAS IP Address is 192.168.0.16, please key in the <ftp://192.168.0.16/>).



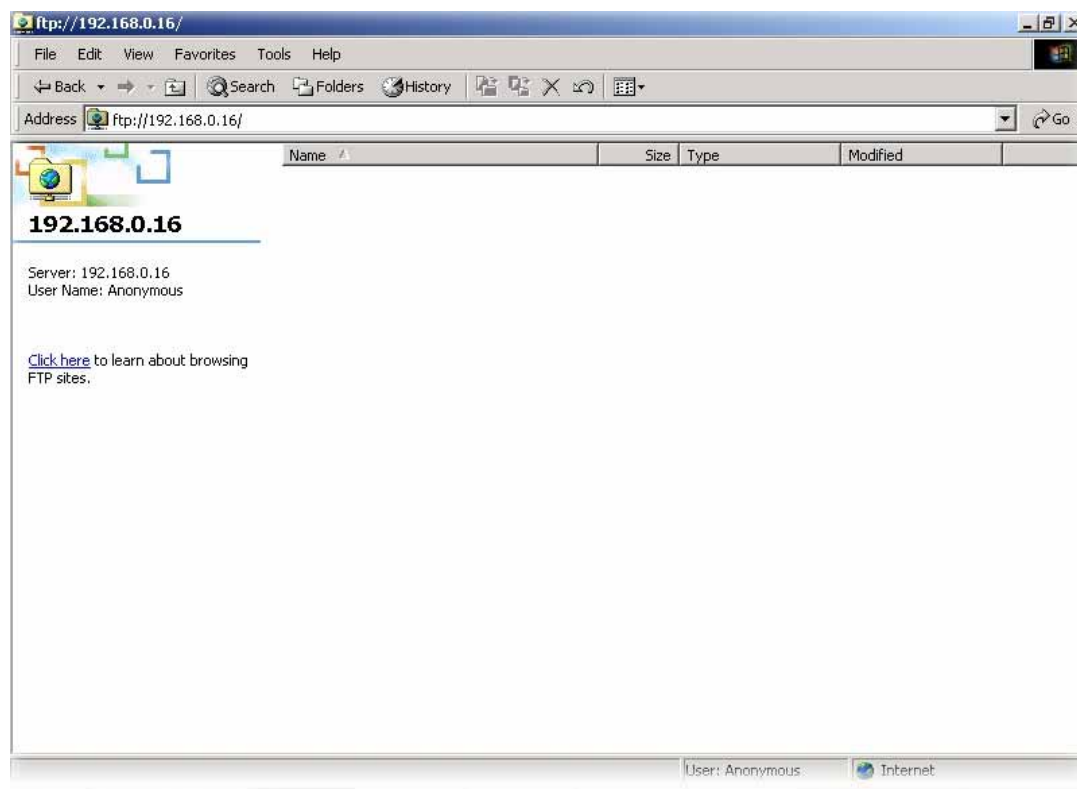
- c. Select the "File\Login As"



- d. Key in your user name and pass word. (User name is "Share Folder Name" and password is "Full Access Password")



#### e. Login Success



## 4. Appendix

### Reset

INTELLINET NAS provides two types of reset; one is restoring the configurations to the factory default values, it can be performed from RESET button in the front panel and the “Reset” web page. The other is deleting all the data on the disk besides restoring configurations, it can be performed from the “Reset” web page. The configurations include the web administrator password, network settings and share passwords (listed in the table below).

**When choosing “Yes. I want to remove all the data on the disk.” from the “Reset” web page, all user data will be destroyed.** There will then be a setup wizard to facilitate the configuration steps involved, including disk partition and profile selection. For details, see the Setup Wizard section below.

| Name                    | Default Setting         |
|-------------------------|-------------------------|
| User name               | admin                   |
| Password                | admin                   |
| Profile                 | 1                       |
| Profile Name            | Conference              |
| <b>Wired Mode</b>       | <b>Use The IP Below</b> |
| IP Address              | 192.168.0.1             |
| Subnet Mask             | 255.255.255.0           |
| DHCP Server             | Yes                     |
| Start client IP Address | 192.168.0.2             |
| End client IP Address   | 192.168.0.254           |
| Share Password          | rw                      |

## 5. Glossary

**Client** – Any desktop or mobile PC that is connected to your network.

**DHCP** – A protocol that allows computers to be dynamically allocated an IP address from a DHCP server.

**DNS Server Address (Domain Name Server)** – DNS is used to map names to IP addresses and vice versa. A DNS server keeps a database of host computers and their respective domain names and IP addresses and maps the names in your requests to other servers on the Internet until the specified machine/web site is found.

**Ethernet** – Ethernet networks are connected by cables and hubs, and move data around. This is a standard for computer networks.

**IEEE** – The Institute of Electrical and Electronics Engineers. The IEEE sets standards of networking, including Ethernet LANs. IEEE standards ensure interoperability between systems of the same type.

**IP Address (Internet Protocol)** – An IP address consists of a series of four numbers separated by periods that identifies a unique Internet computer host, allowing messages intended for that computer to be delivered to the correct destination.

**MAC Address (Media Access Control)** – A MAC address is the hardware address of a device connected to a network.

**PXE (Preboot eXecution Environment)** – It's refers to various methods of getting an IBM-compatible computer, typically running Windows, to boot up without the need for a hard drive or boot diskette. The methods evolved from the era before computers had internal disk drives.

**Subnet Mask** – A subnet mask is a set of four numbers configured like an IP address. It is used to create IP address numbers used only within a particular network.

**TCP/IP (Transmission Control Protocol/Internet Protocol)** – This is the standard protocol for data transmission over the Internet. Protocols used to connect hosts on the Internet.