

MFP Server Series

PS-1206MFg/PS-1206MF

PS-1208MFg/PS-1207MF

MAC User's Manual

Version 1.0 / October, 2008





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The product you have purchased and the setup screen may appear slightly different from those shown in this QIG. For more detailed information about this product, please refer to the User's Manual on the CD-ROM. The software and specifications are subject to change without notice. Please visit our web site www.edimax.com for the update. All right reserved including all brand and product names mentioned in this manual are trademarks and/or registered trademarks of their respective holders.

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Warning

Any changes or modifications not expressly approved by the party responsible for compliance could void the authority to operate equipment.

Federal Communication Commission (FCC) Radiation Exposure Statement

This equipment complies with FCC radiation exposure set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20cm (8 inches) during normal operation.

The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Radio Frequency Interference Requirements

This device is restricted to indoor use due to its operation in the 2.4 GHz frequency range. FCC requires this product to be used indoors in 2.4 GHz the frequency range to reduce the potential for harmful interference to co-channel Mobile Satellite systems.

RSS-210 Compliance Statement

The term "IC:" before the certification/registration number only signifies that Industry Canada technical specifications were met. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Transmitter Antenna

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (EIRP) is not more than that required for successful communication

This device has been designed to operate with an antenna having a maximum gain of 5dBi. Antenna having a higher gain is strictly prohibited per regulations of Industry Canada. The required antenna impedance is 50 ohms.

IC Radiation Exposure Statement:

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

Country Code Setting Disable

Country Code selection feature to be disabled for products marketed to the US/CANADA.

R&TTE Compliance Statement

This equipment complies with all the requirements of DIRECTIVE 1999/5/EC OF THE EUROPEAN PARLIAMENT AND THE COUNCIL of March 9, 1999 on radio equipment and telecommunication terminal Equipment and the mutual recognition of their conformity (R&TTE).

The R&TTE Directive repeals and replaces in the directive 98/13/EEC (Telecommunications Terminal Equipment and Satellite Earth Station Equipment) As of April 8, 2000.

Safety

This equipment is designed with the utmost care for the safety of those who install and use it. However, special attention must be paid to the dangers of electric shock and static electricity when working with electrical equipment. All guidelines of this and of the computer manufacture must therefore be allowed at all times to ensure the safe use of the equipment.

EU Countries Intended for Use

The ETSI version of this device is intended for home and office use in UK, Ireland, Germany, France, Spain, Portugal, Italy, Austria, Switzerland, Belgium, Netherlands, Luxemburg, Denmark, Finland, Norway, Sweden, Poland, Hungary, Czech, Slovakia, Latvia, Lithuania, Estonia, Slovenia, Greece, Romania, Bulgaria

EU Countries Not intended for use

None.

CE Mark Warning

This is a class B product. In a domestic environment, this product may cause radio interface, in which case the user may be required to make adequate measures.

A CE declaration of conformity is available on www.edimax.com

Regulatory Approvals for AC Adapter

Input: AC 100-240 V, 50-60 Hz

Output: DC 5V, 1.0A

Power Consumption: 300mW

Safety Standards: UL/CUL 60950-1

EMC: FCC part 15 subpart B Class B

Safety Information

For your safety, be sure to read and follow all warning notices and instructions.

- Do not continue operating if you notice smoke or unusual odors or sounds. Continued operation may result in electric shock or fire. Immediately turn off power and remove the power adapter from the outlet, then contact EPSON.
- Do not disassemble or modify the product in any way (unless described in instructions). Doing so may cause injury or electric shock.
- Make sure you use the power adapter supplied with the MFP Server. Use of a different power adapter could damage the MFP Server.
- Do not handle plugs with wet hands. Doing so may result in electric shock.
- Do not use damaged power cords. Doing so may result in electric shock and fire. Observe the following when handling power cords:
 - Do not modify power cords.
 - Do not place heavy objects on power cords.
 - Do not sharply bend, twist, or pull on power cords.
 - Do not route power cords near heating equipment.
- Do not attempt to repair the power adapter or cord. Contact EPSON to order a new one.
- Handle power plugs with care. Improper handling may result in fire. Observe the following when handling power plugs:
 - Do not plug in power plugs that are dusty or dirty.
 - Firmly plug in power plugs all the way.
- Periodically remove power plugs from the outlet and clean the base of the plug. If power plugs are left plugged into an outlet for long periods, dust may accumulate near the base, posing a risk of short-circuiting and fire.
- To ensure safety, always unplug power adapter from the outlet when the product will not be used for an extended period.

- Make sure to connect the cables to the correct ports.
- Place connecting cables carefully so that no one will step on them or stumble over them.
- Avoid locations that are subject to rapid changes in heat or humidity, shocks or vibrations, or dust.
- Do not expose the device to dampness, dust or corrosive liquids.
- Discontinue use if a foreign object or water or other liquid enters the product. Continued use may result in electric shock and fire. Immediately remove the power adapter from the outlet and then contact EPSON.

Contents

1. Introduction	1
2. MFP Server Modes	2
3. Using Your All-in-one in MAC	4
3.1 Printing	6
3.2 Scanning	7
3.3 Reading Memory Cards	9
4. MFP Manager in MAC	10
4.1 MFP Server List	10
4.2 Option Settings	13
4.2.1 General Setting	13
4.2.2 Search for MFP Server	14
5. Server Configuration in MAC	15
5.1 Introduction	15
5.2 Search for All Available MFP Server	16
5.3 Status of MFP Server	17
5.4 General Setting	19
5.5 TCP/IP Configuration	21
5.6 System Configuration	22
5.7 Wireless Configuration	23
6. Web Management	29
6.1 Introduction	29
6.2 Login	30
6.3 Device Status	31
6.3.1 System Status	31
6.3.2 Printer Status	32
6.3.3 TCP/IP Status	33
6.4 Setup Wizard	34
6.4.1 System	34
6.4.2 Wireless	37
6.4.3 TCP/IP	44
6.4.4 Save Settings	45
6.5 System Tools	46

6.5.1	Load Default.....	46
6.5.2	Upgrade Firmware.....	47
7.	Troubleshooting	48

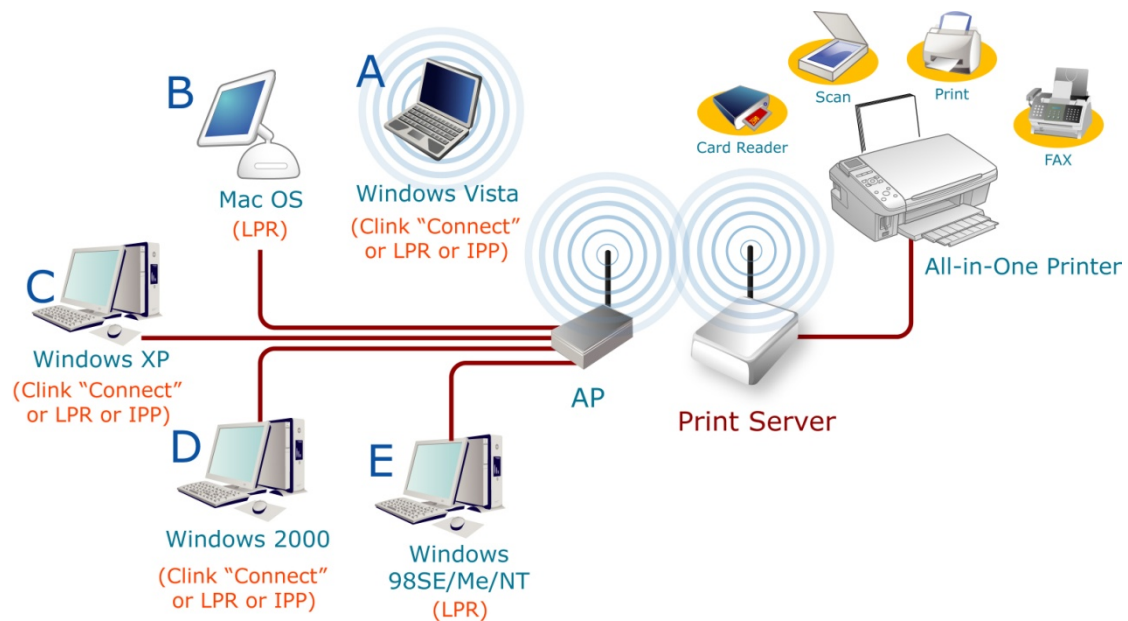
1. Introduction

This MFP Server allows your all-in-one printer to become a shared device on the network. Unlike many MFP Servers, it can communicate with your all-in-one printer as if it was connected directly to your computer. This allows all users to share print, scan, card reader and fax (if available) over the network. You can also monitor important information such as ink levels.

The MFP Server provides IEEE 802.11g/b wireless LAN connectivity (up to 54Mbps data transfer rate), an Ethernet network port (10/100Mbps Ethernet), and one USB 2.0/1.1 port. The MFP Server can be connected to your 802.11g/b wireless network or wired network.

2. MFP Server Modes

This MFP Server supports two modes: All-in-one MFP Server Mode and MFP Server Mode. Users can choose one of these modes to share all-in-one or printer functions through the MFP Server.



All-in-one MFP Server Mode:

The MFP Server can communicate with an all-in-one printer as if it was connected directly to your computer. This enables users to connect to the all-in-one for sharing print, scan, card reader, and fax functions (if available). The supported OS in this mode is Windows 2000 SP4 and above, Windows XP SP1 and above, Windows Vista 32 and Vista 64 and MAC OS 10.4/10.5. The all-in-one MFP Server mode doesn't support Windows 98SE/ME/NT, Linux/Unix. For the detailed instructions, please refer to the following chapters.

Chapter 3: Using the all-in-one printer

Chapter 4: MFP Manager

MFP Server Mode:

The MFP Server also supports LPR, IPP and RAW printing protocols, which enable users to share the print function from an all-in-one printer. The supported Operating Systems are Windows 98SE/Me/NT/2000/XP/2003/Vista and MAC. For detailed instructions, please refer to the following chapters.

Chapter 7: LPR Printing

Chapter 8: RAW Printing

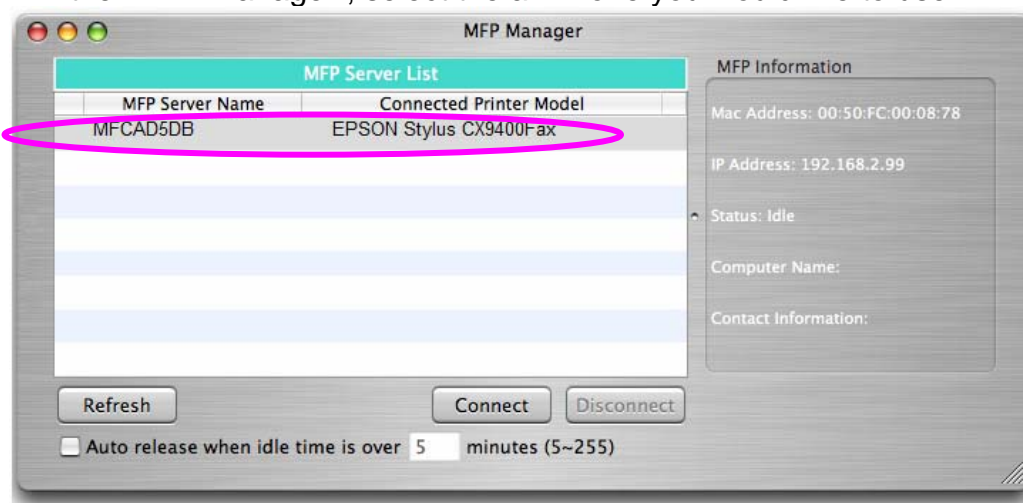
Chapter 9: IPP Printing (Not in MAC)

3. Using Your All-in-one in MAC

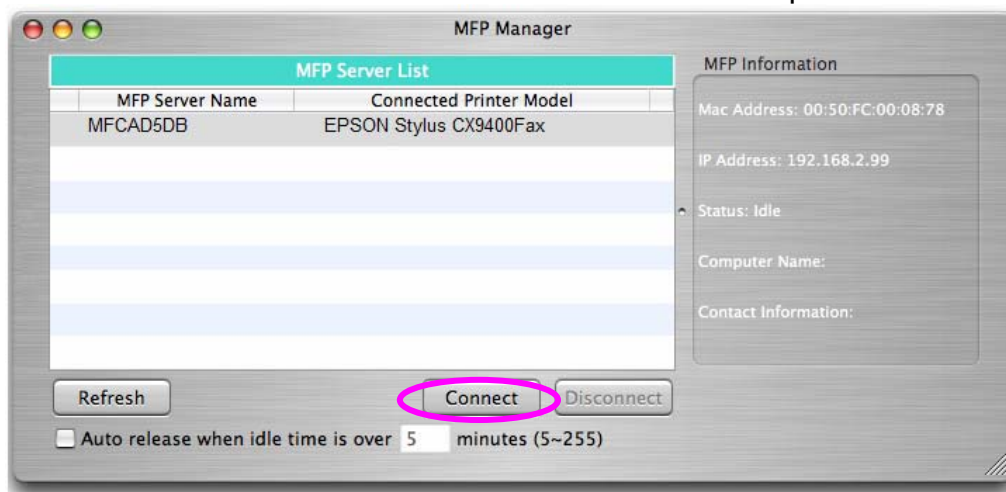
After you have followed the install wizard to finish the all-in-one printer and MFP Server installation and manually add your all-in-one into printer list, you are able to start sharing print, scan, card reader, or fax functions.

To print, scan or read the memory card through MFP Server, please follow the steps below for using your all-in-one printer.

1. Go to "Application/Utility" and click "MFP Manager".
2. In the "MFP Manager", select the all-in-one you would like to use.



3. Click the "Connect" button to connect to the all-in-one printer.



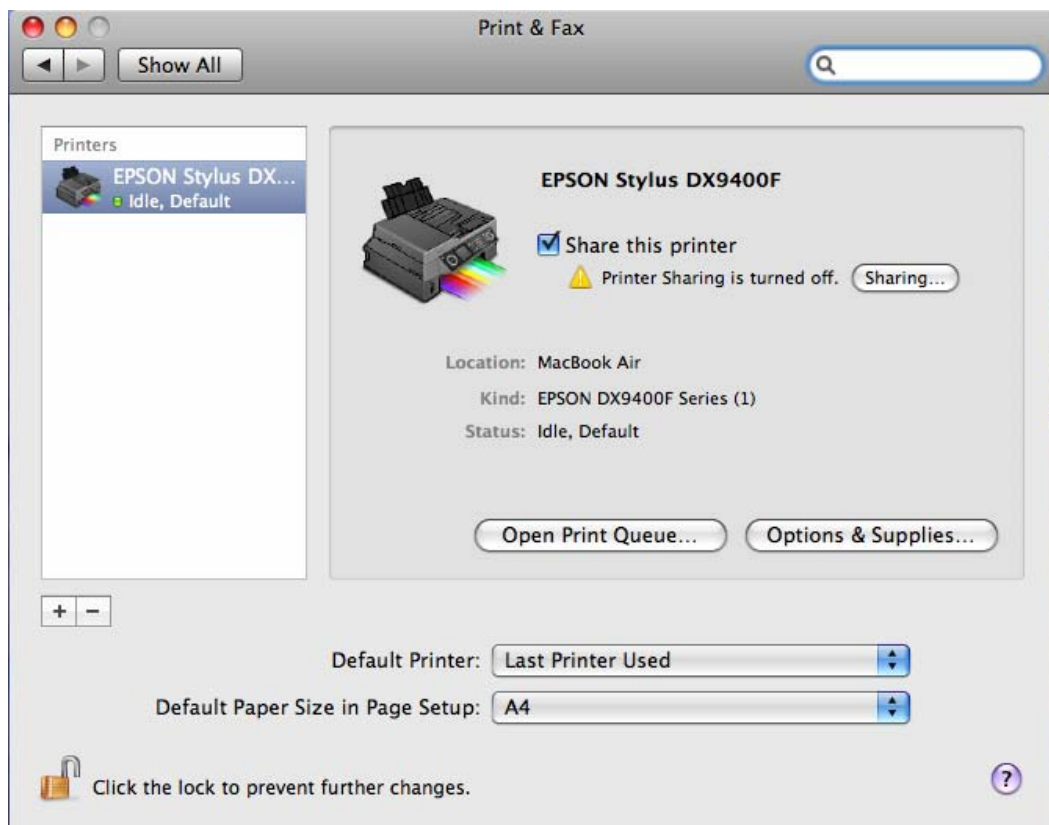
4. You are able to use the all-in-one printer for printing, scanning or reading the memory card over the MFP Server.

Tip: *If you have finished using the all-in-one printer, please click “Disconnect” to release it. Other users can’t use the all-in-one printer until it is released.*

3.1 Printing

After you manually add the all-in-one printer to “Printers and Faxes” in MAC. You can select the printer for printing a document through MFP Server by following the steps below. Be sure to connect the all-in-one you want to use on the list of MFP manager first.

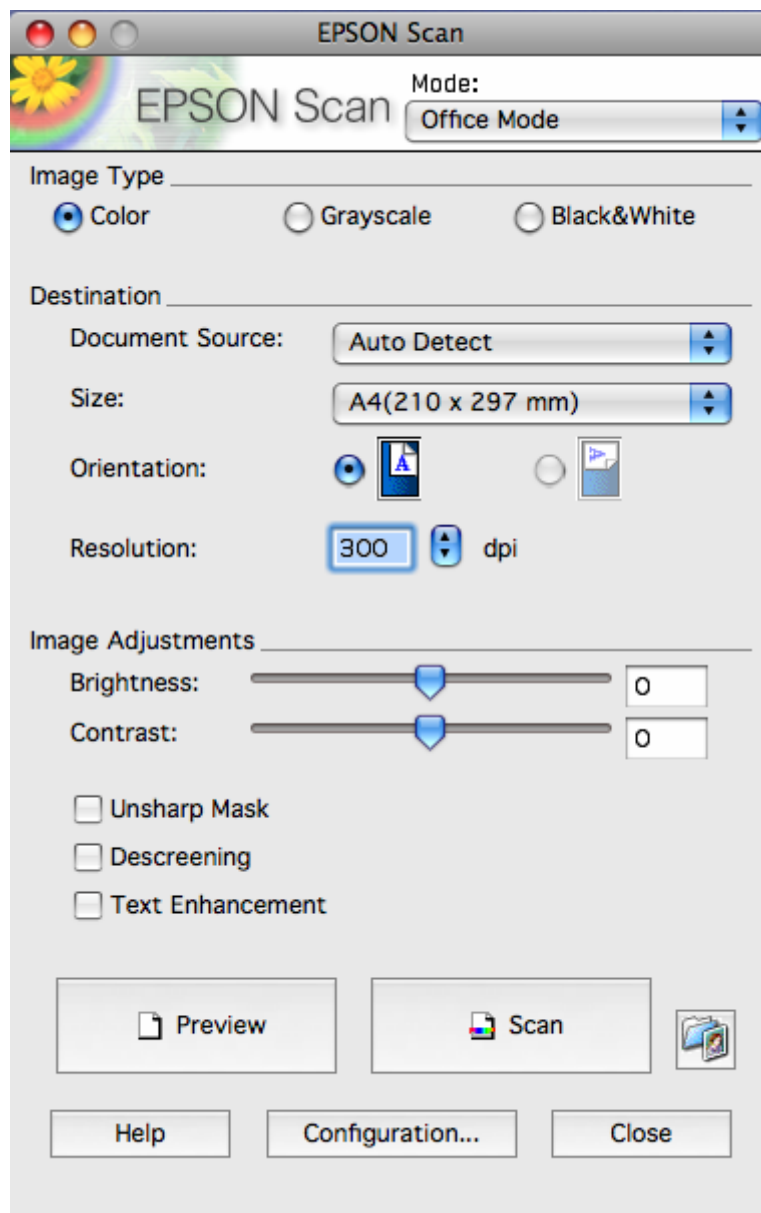
Tip: If you have sent a print job to it while the all-in-one printer is connecting to another user, you may be prompted that the device is not found or the document failed to print. Please resend the print job after the all-in-one printer is idle or not connected.



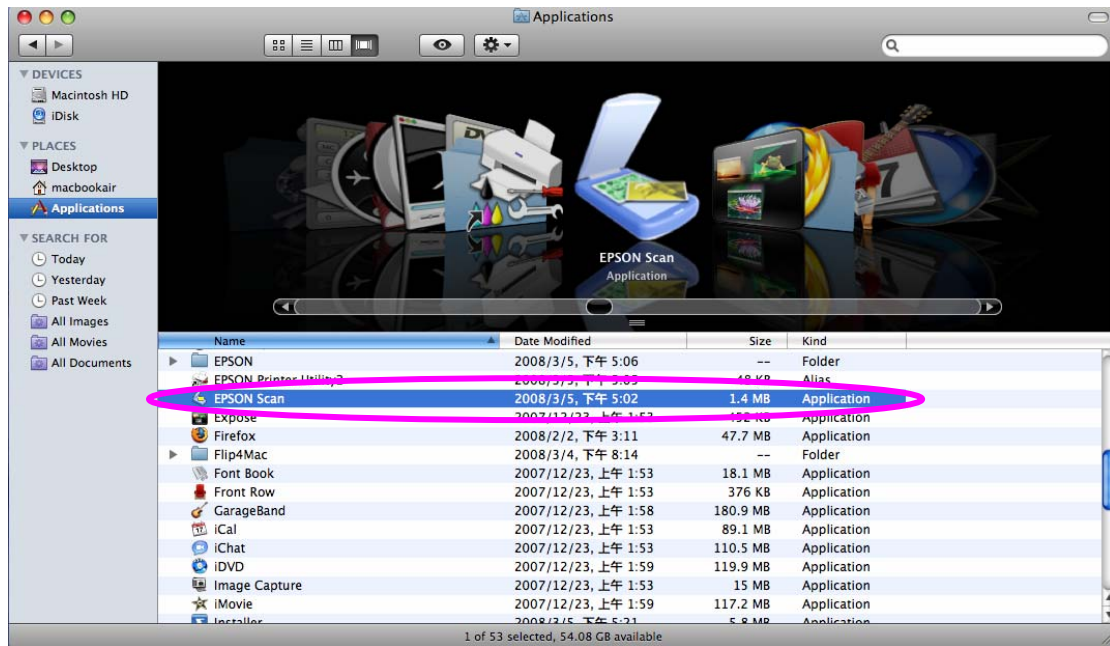
3.2 Scanning

The all-in-one printer provides a scan utility for users. You can scan pictures or documents through the utility. In MAC, you can also scan from the MAC scanning utility or use third party scanning utilities such as Photoshop, Photoimpact, Paint Shop Pro, etc. Be sure to connect the all-in-one you want to use on the list of MFP manager first.

An example: EPSON CX-8400/9400 Series Utilities



MAC Scanning Utility



3.3 Reading Memory Cards

You can read the files from a memory card through the MFP Server. Be sure to connect the all-in-one you want to use on the list of MFP manager first.



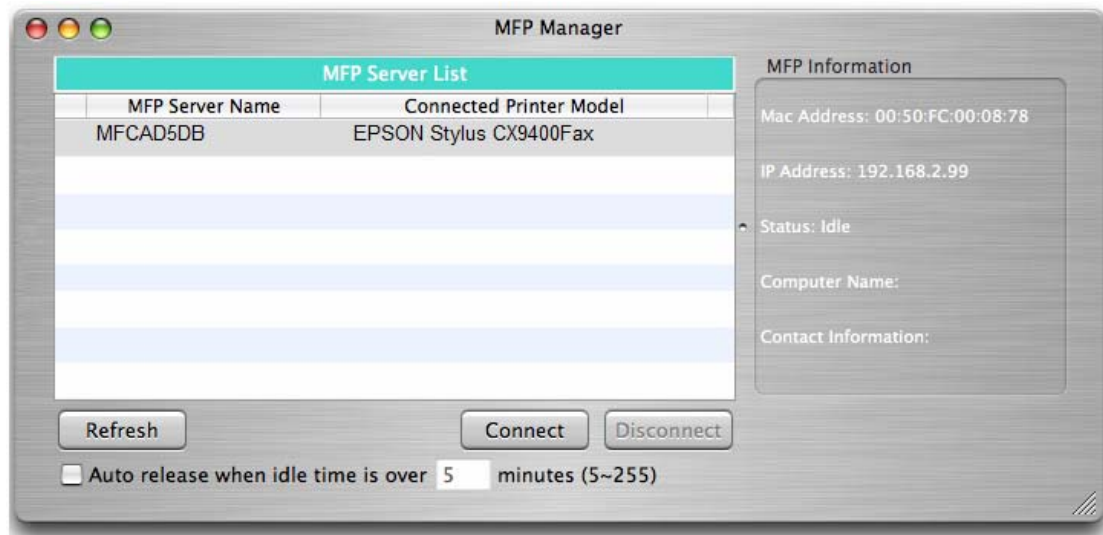
4. MFP Manager in MAC

4.1 MFP Server List

The “MFP Manager” can automatically find the MFP Server in the network and show it in the MFP Server List. You can select an all-in-one printer and click “Connect” to use the printer as if you had directly connected the printer to your computer through a USB cable. The MFP manager also displays information about the connection status.

When you don’t want to use the all-in-one printer, please click “Disconnect” so that other users can use the device. If you forget to disconnect the all-in-one printer, the MFP Server will be disconnected after five minutes automatically. You can configure the time period; please refer to the description in the following table.

If you unplug the USB cable or turn off the all-in-one printer, the device will not display in the list. After you reconnect the USB cable or turn on the all-in-one printer, you have to click the “Refresh” and “Connect” buttons in the “MFP Manager” to recover the connection.



MFP Server List

MFP Server List The “MFP Server List” will list all the MFP Servers within the network. You can find information about the MFP Server including “MFP Server Name”, “MAC ID”, “IP Address” and the device that is connected to the MFP Server.

MFP Server/MFP Information When you are clicking on the “MFP Server” in the “MFP Server List”, you will see the “MFP Server Description” and the “Idle Timeout” setting for the MFP Server.

MFP Server Description – It is a description that can help users to identify where or what the MFP Server is.

Idle Timeout – From here, each user can know his/her auto release setting. To avoid occupying the all-in-one printer overtime, each user is recommended to enable the “Auto Release” setting at the bottom of the “MFP Manager” utility. It is used to automatically disconnect the connection after the all-in-one printer is idle for a specified period of time. By default, it is enabled to release the all-in-one printer five minutes.

When you are clicking on the “all-in-one printer” in the “MFP Server List”, you will see the information including “Status”, “Computer Name” and “Contact Information”.

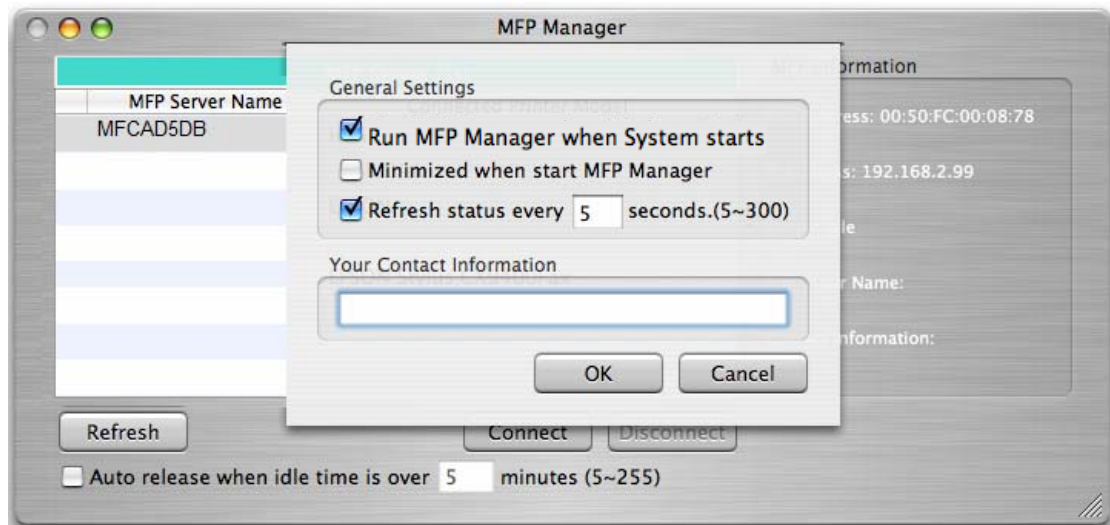
Status – It displays the status of the all-in-one printer including Connected, Idle and Busy. When the status is “Connected”, it indicates that you are connecting the all-in-one printer. When the status is “Idle”, it indicates that the all-in-one printer is not being used. When the status is “Busy”, it indicates that another user is using the all-in-one printer to scan, print, etc.

MFP Server List

MFP Server/MFP Information	<p>Computer Name – It display the computer name of the user who is connecting to the all-in-one printer.</p> <p>Contact Information – When the current user has set his “Contact Information”, you can see it here. You can contact the current user to disconnect the all-in-one printer.</p>
Refresh	Refresh the “MFP Server List” immediately.
Connect	Let the all-in-one printer be connected to your computer.
Disconnect	Disconnect the selected all-in-one printer.
Auto Release when idle time is over xx minutes (5-255)	To avoid occupying the all-in-one printer overtime, you can set-up the auto release function. It is used to automatically disconnect the current connection after the all-in-one printer is idle for a specified period of time. By default, it is enabled to auto release the all-in-one printer after five minutes. You can set the time period longer; the maximum setting is 255 minutes.

4.2 Option Settings

4.2.1 General Setting



General Setting

Run MFP Manager when MAC starts Execute the “MFP Manager” when MAC starts every time. By default, it is enabled.

Minimized when start MFP Manager Minimize the “MFP Manager” to an icon in the system tray when you start the “MFP Manager”. By default, it is enabled.

Refresh status every xx seconds. (5~300) Set up the refresh interval for device status update. By default, it is enabled.

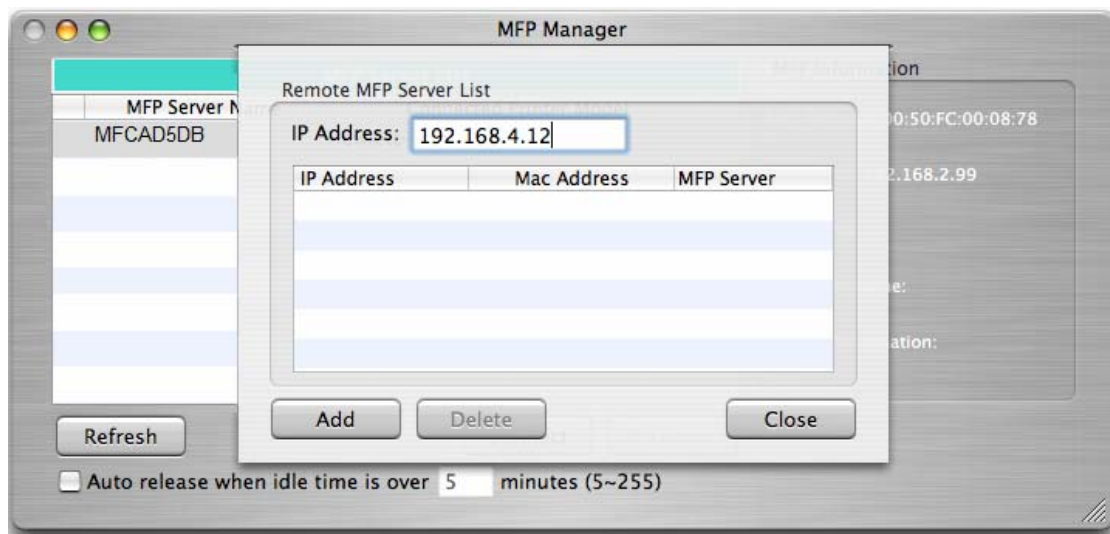
Your Contract Information Enter your contact information here. When you connect to the all-in-one printer, your contact information will be displayed on the right side of the program for other users to contact you.

4.2.2 Search for MFP Server

If MFP Server is not in the same network as your computer, you can enter the IP Address of the MFP Server to do remote search. The MFP Server in the “Remote MFP Server List” will be added to the “MFP Server List” for you to configure.

Note:

If the remote MFP Server you have searched is behind a NAT Router, the MFP Server may not operate normally.



5. Server Configuration in MAC

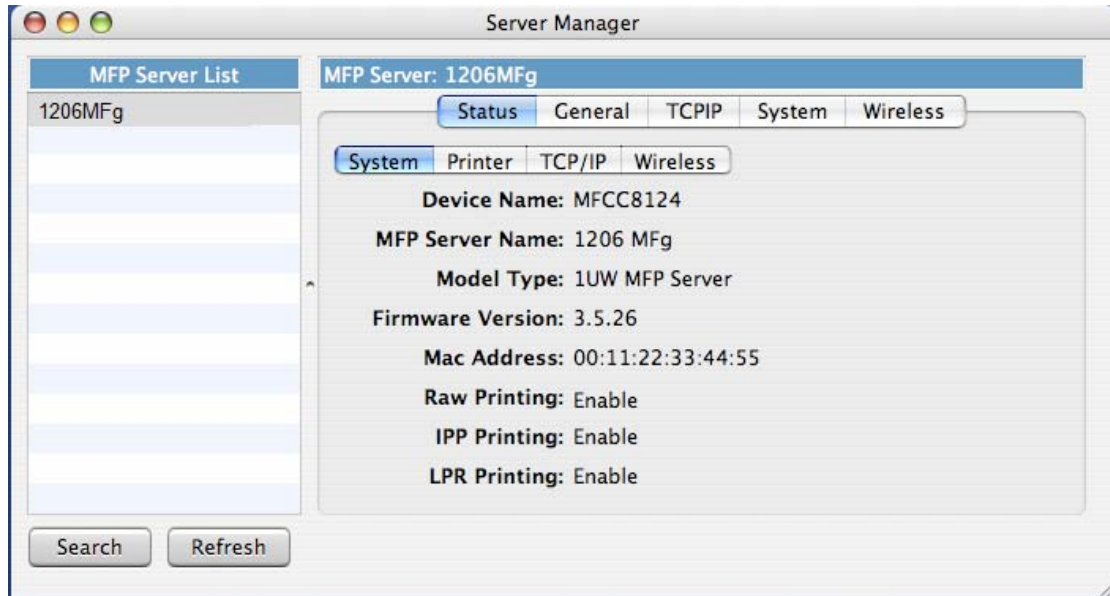
5.1 Introduction

This chapter introduces the MFP Server's system configuration utility in MAC environment. This utility provides the most complete management and configuration functions on the MFP Server side. This utility only provides configuration functions for MFP Server itself; it does not include configuration functions for client side or other file servers in the network environment.

The Configuration Utility provides the following configuration and management functions:

- **Search MFP Server:** Search All Available MFP Servers on the Network.
- **Status:** Display MFP Server Network Status.
- **General Configuration:** Configure general settings about the MFP Server such as Server Name, Password, etc.
- **TCP/IP Configuration:** IP Address and DHCP Server Configuration.
- **System Configuration:** MFP Server Network Ability Setting and Firmware Upgrade.
- **Wireless Configuration:** Search for the available wireless networks and configure the wireless settings of the MFP Server for the wireless connection.

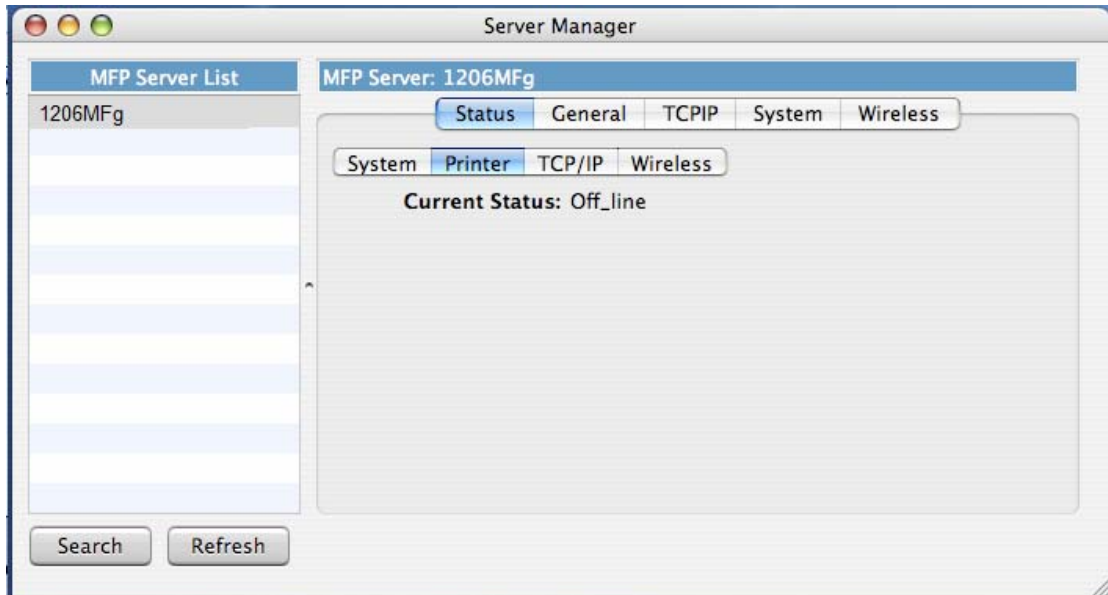
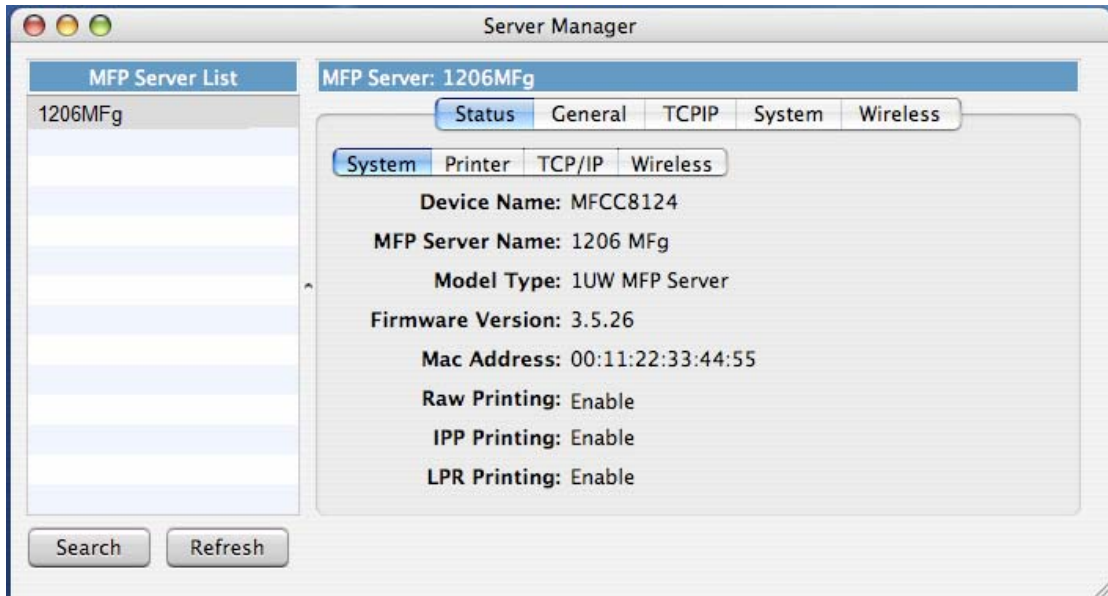
5.2 Search for All Available MFP Server

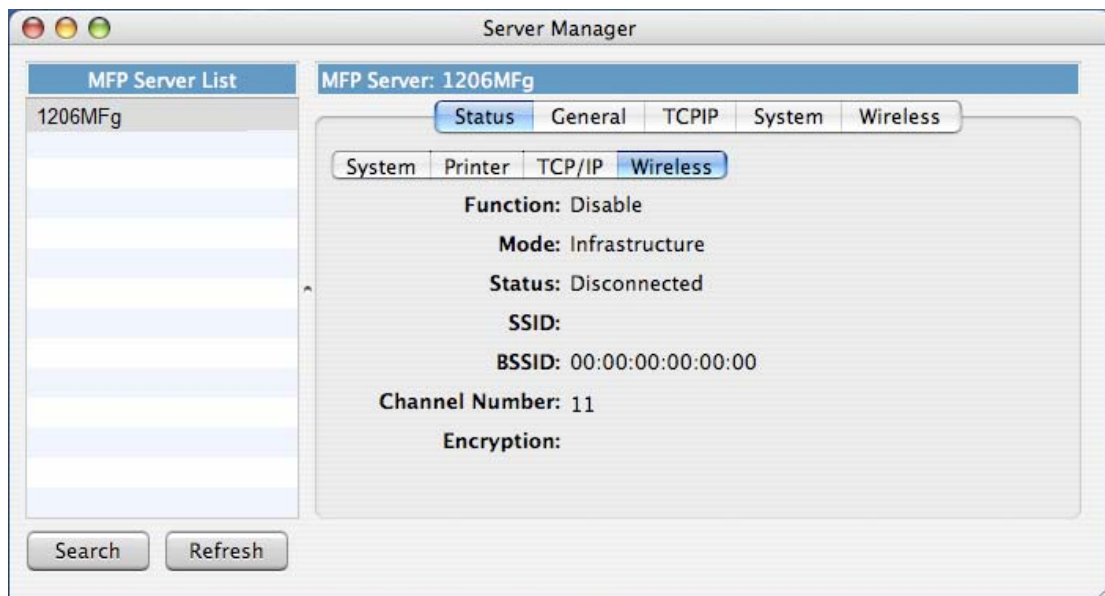
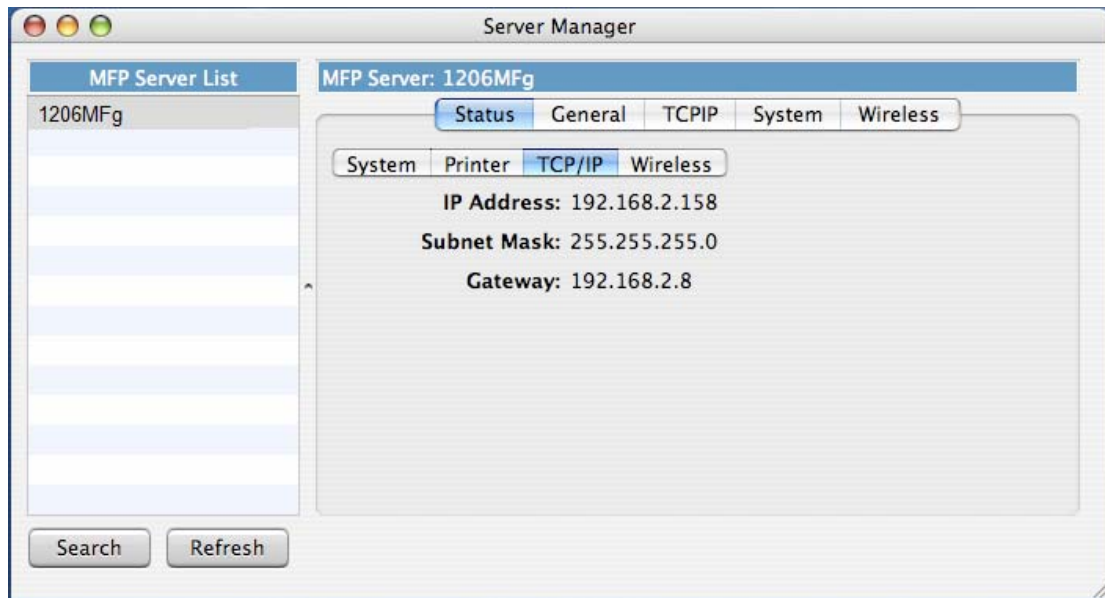


To run the “Server Manager” configuration utility, click the “Search” button . The configuration utility will delay for several seconds because the utility is using the system’s available network protocols to search for all MFP Servers on the network. All available MFP Servers will be listed under “MFP Server List” on the left side of the window.

You must select the MFP Server you would like to configure from the list. The system will, at the same time, display the selected MFP Server’s status on the right side of the window.

5.3 Status of MFP Server

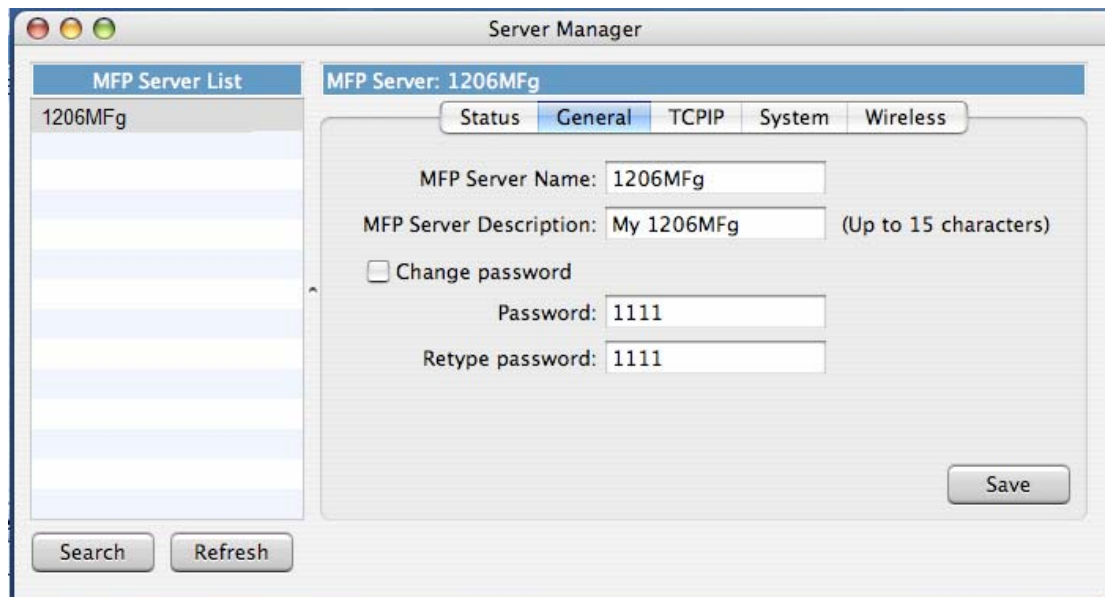
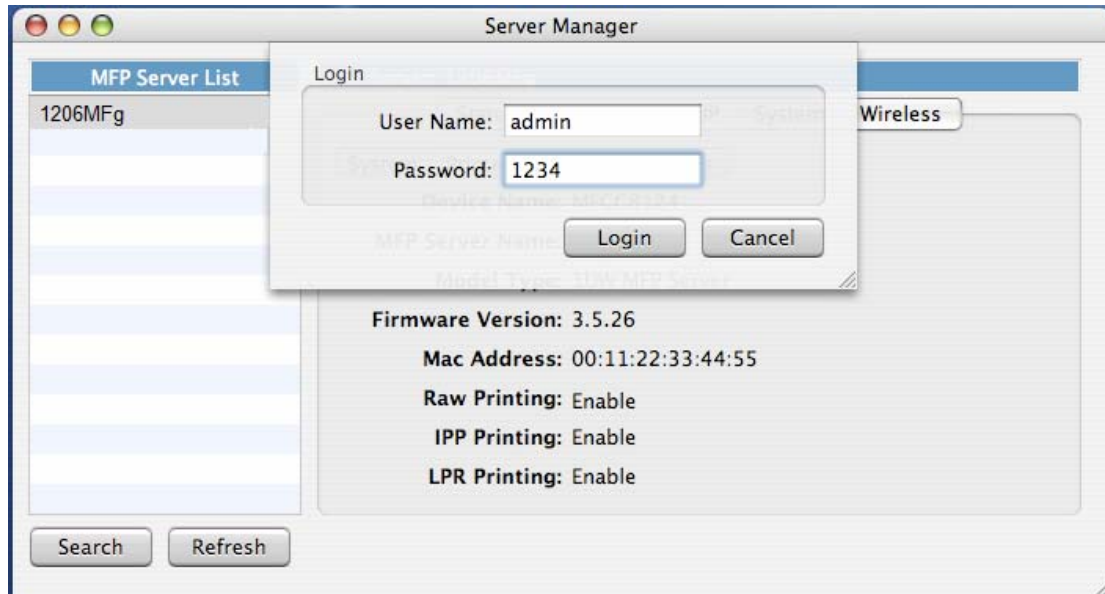




Click the “Status” button on the tool bar. The status of the currently selected MFP Server will be shown on the right side of the window, go to “System”, “Printer”, “TCP/IP” and “Wireless” for detail status. The information about the MFP Server includes Device Name, MFP Server Name, Model Type, Firmware Version, MAC Address, status of each server port, IP address, subnet mask, default gateway and supported printing protocols...etc.

You can refresh the MFP Server’s status by click the “Refresh” button .

5.4 General Setting



Double click the “General” button on the tool bar. The setup items of the current selected MFP Server will be shown on the right side of the window.

A screen will pop up to verify “User Name” and “Password” of the MFP Server. The default values are: **User Name: admin, Password: 1234.**



Tip: When you click save, a “what to do” message will pop up, please click “Reboot” to restart the MFP Server to let the settings take effect, or click “cancel” to save the setting and go to further settings.

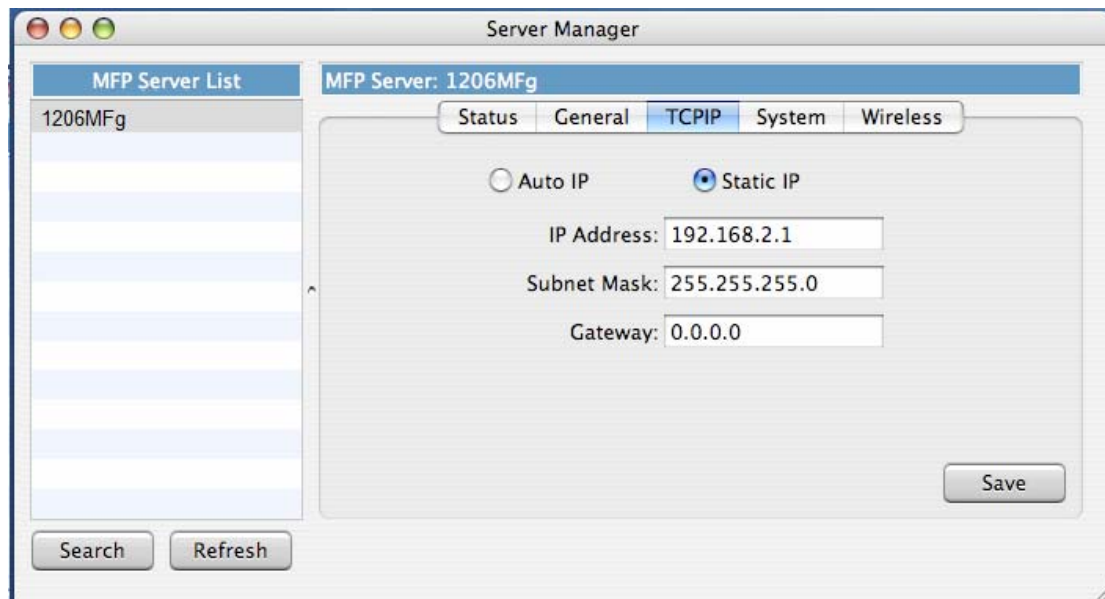
You can configure the “Server Name”, “User Name” and “Password” here.

Server Name, the name of the MFP Server. You can use this name to identify the MFP Server when you are searching for the MFP Server by the “Server Manger” utility.

MFP Server Description, to enter a description of the MFP Server such as location or other information, to help users find the MFP Server easily.

User Name / Password is used to authenticate the administrator to login the MFP Server for configuring it from the “Server Manger” utility or the Web Management tool.

5.5 TCP/IP Configuration



Double click the “TCP/IP” button. The TCP/IP configuration window will pop up. You can configure the MFP Server to automatically get an IP address from a DHCP server or manually specify a static IP.

IP Address Assignment:

If you need the MFP Server to automatically get an IP from a DHCP server, select “Auto IP”. You also can select “Static IP” to manually assign “IP Address”, “Subnet Mask” and “Gateway” for the MFP Server. The default IP Address settings of the MFP Server are as follows.

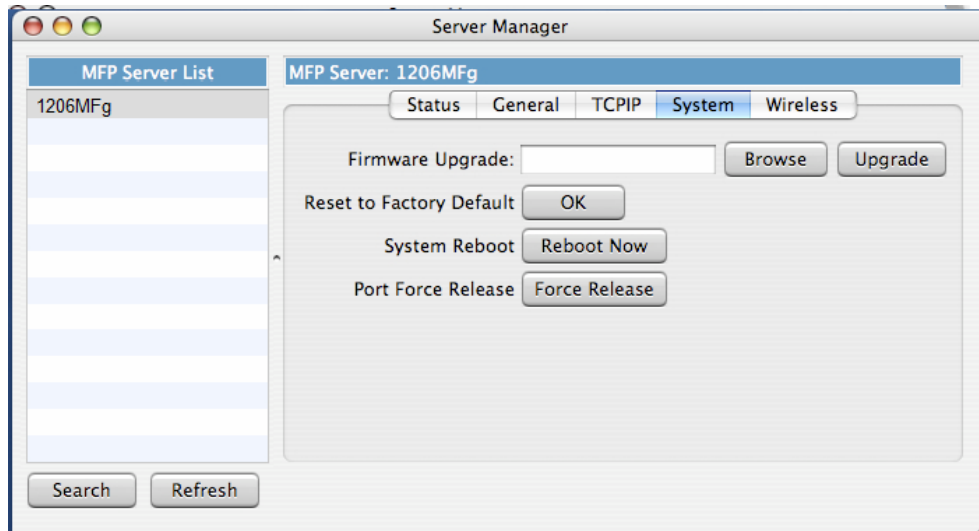
IP Address: 192.168.2.2

Subnet Mask: 255.255.255.0

Auto IP – The IP Address information of the MFP Server obtained from a DHCP Server will be displayed in the address field. If no DHCP Server is present, you have to assign the information manually.

Static IP – Manually assign the IP address information in the same network with your computer to the MFP Server.

5.6 System Configuration



Double click the "System" button. The System configuration window will pop up. In the System configuration page, you can upgrade the firmware, reset to factory default, reboot the system or set the force release port for this MFP Server.

Firmware Upgrade: You can use this "Firmware Upgrade" tool to update to the newest firmware of the MFP Server. Click "Browse" button and select the correct firmware in your PC. After selecting the firmware file click "Upgrade" button to activate the firmware update process.

Tip: Before you upgrade the firmware, please make sure that the IP Address settings of the MFP Server are in the same network as your computer.

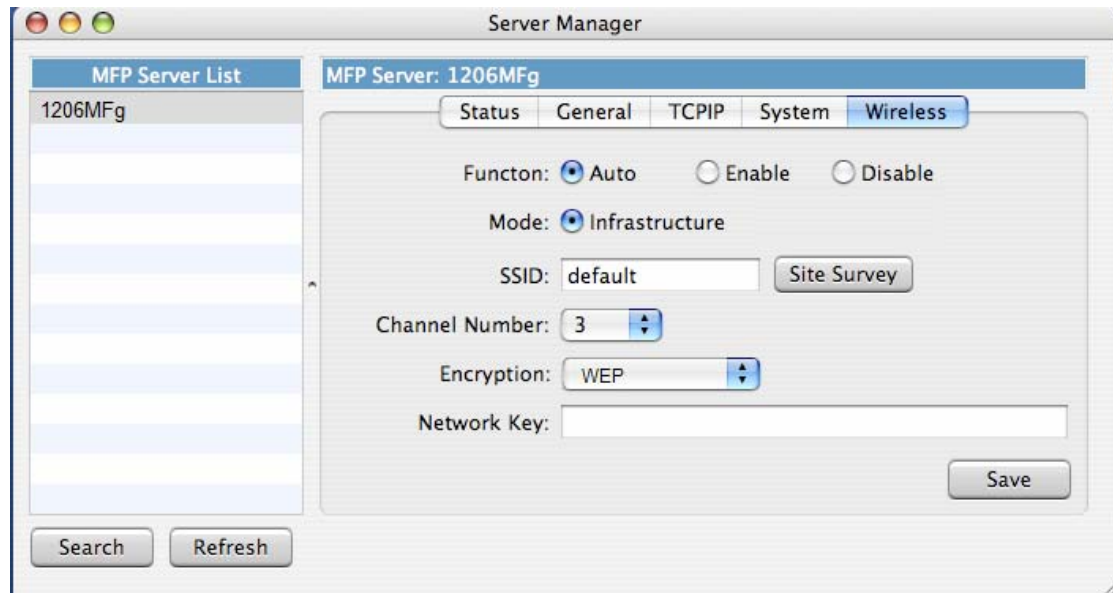
Reset to Default: If you want to reset the MFP Server to default factory settings, please click "OK".

System Reboot: If you want to reboot the MFP Server, please click "System Reboot".

Force Release: Click "Force Release" to help you disconnect the current connection between the user and the connected device. This is very useful when a user forgets to disconnect the all-in-one printer. The administrator can release the connection and let the all-in-one printer be free to use.

5.7 Wireless Configuration

Wireless Configuration Double-click the “Wireless” button. Enter user name and password then the wireless configuration window will popup. The default username and password are “admin” and “1234”, and you are into the steps of “Infrastructure Mode”.



Function: You can select “Auto”, “Enable” or “Disable” to manually configure the wireless function.

Auto – “Auto” is the default setting of the MFP Server. At this mode, the MFP Server will automatically decide to enable or disable the wireless function. When the MFP Server starts up, it will auto-detect if the LAN port is connected to an active network by an Ethernet cable. If this is the case, the MFP Server will run in Ethernet mode. If the MFP Server is not connected to an active network by Ethernet cable, the MFP Server will run in wireless LAN mode.

Users can plug the Ethernet cable into the MFP Server, after configuring the MFP Server features and wireless settings; they can unplug the Ethernet cable to enable the wireless connection. This makes the configuration much easier without creating the wireless connection in advance.

Note: After you have set the wireless function, please remove the Ethernet cable and then re-plug the power jack of the MFP Server to activate the

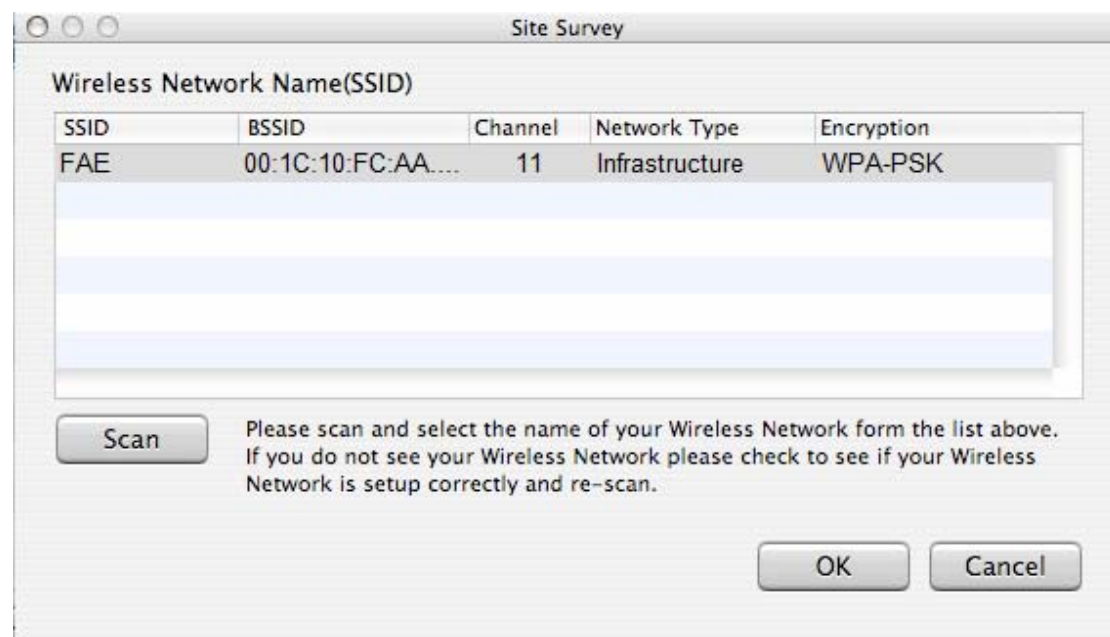
wireless connection.

Enable – Enable wireless function only; the MFP Server’s wireless LAN will be enabled and Ethernet will be disabled.

Disable – Disable the wireless function, the MFP Server’s wireless LAN will be disabled and Ethernet will be enabled.

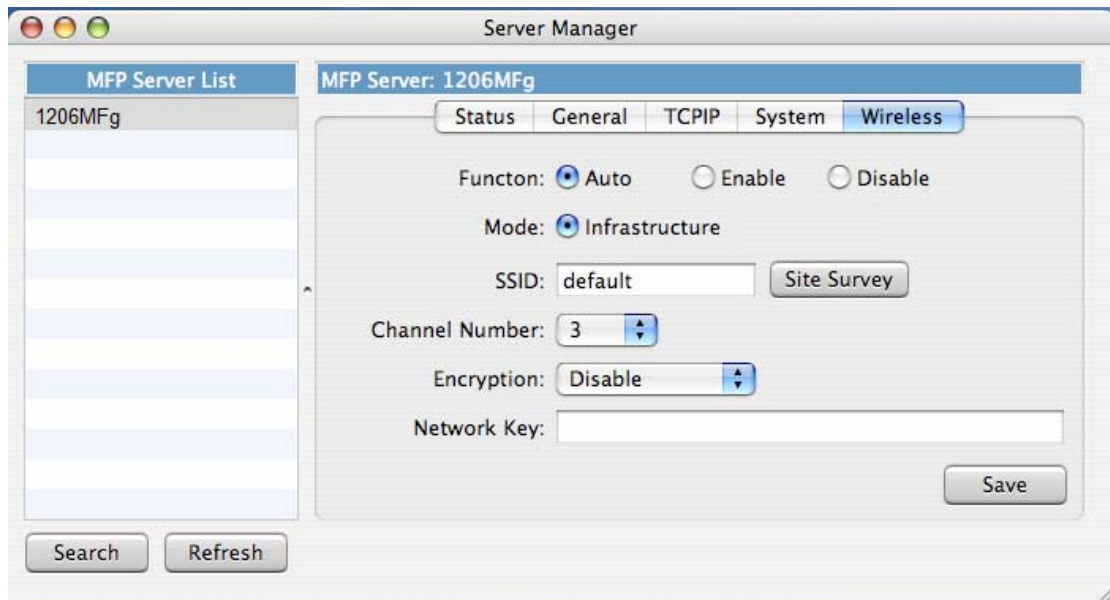
Infrastructure: You have to let the MFP server associate with an access point. You can let the MFP server scan for an available access point automatically or manually assign the SSID of the access point you want to use.

If you select to let the MFP server scan for an available access point, click “Site Survey” the following window will pop up.



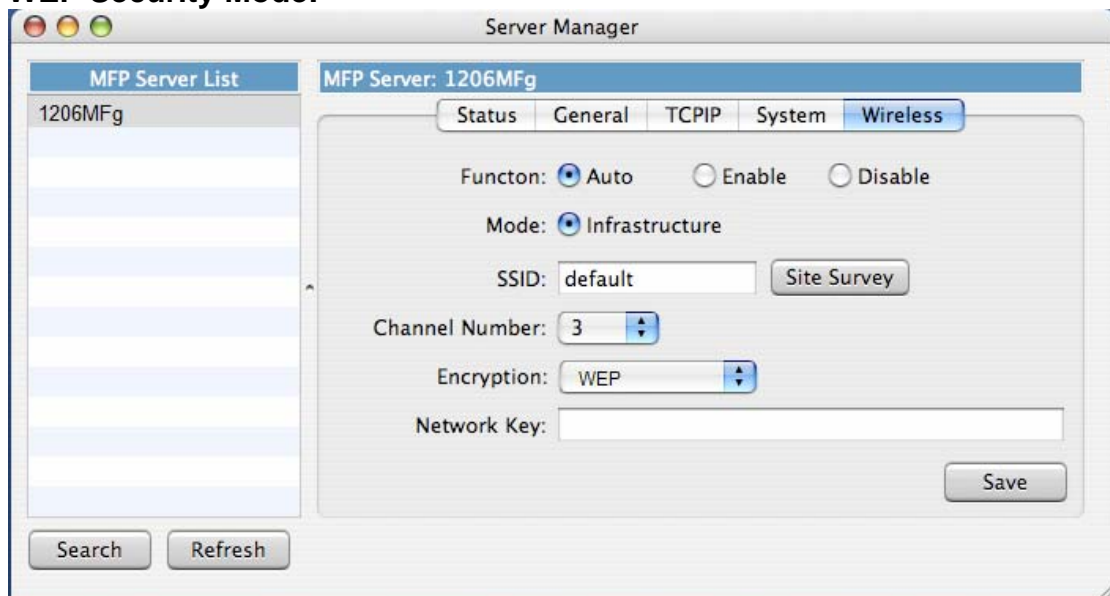
The table will list the available access points near the MFP server. Select an access point in the list and click “OK”. If you cannot find the access point that you want to use, click “Scan” to let the MFP server scan again.

You have to go through the following security setting procedure:

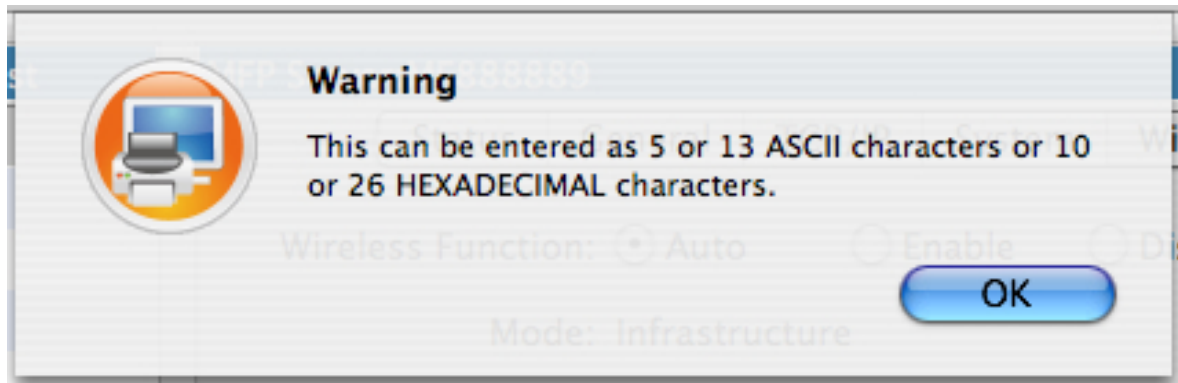


This MFP server supports WEP, WPA-PSK and WPA2-PSK security mode. If you want to use WEP encryption to protect your wireless network, you have to select “WEP”. The wireless security setting should match other wireless devices in the same network.

WEP Security Mode:



When you choose the encryption to “WEP” a key format message will pop out.



(p.s. this picture is temporary we will post the formal one later)

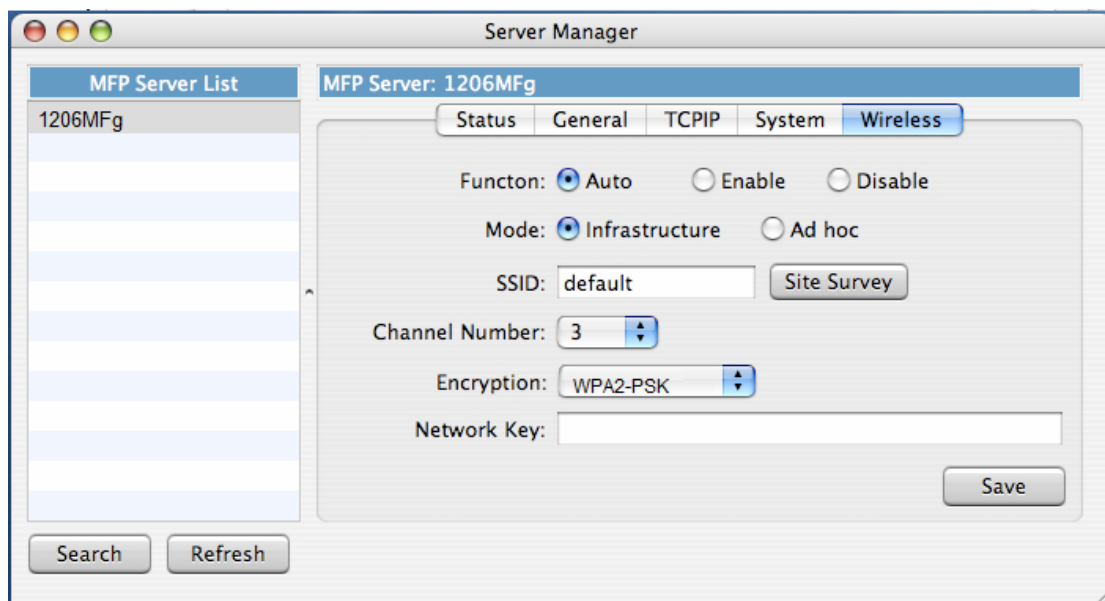
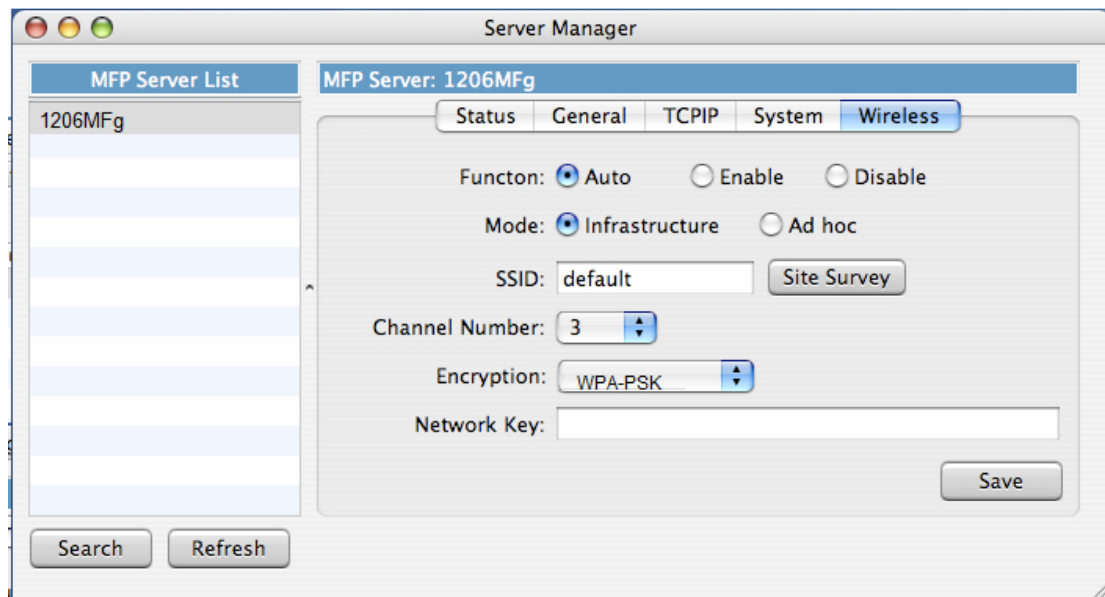
You can select to enter “10 or 26 characters” for “Hexadecimal” or “5 or 13 characters” for “ASCII” format encryption key. Longer key length can provide stronger security but worse communication performance.

Network Key –Simplifies the WEP encryption process by automatically generating the WEP encryption keys for the MFP server. All you have to do is to enter 5, 10, 13 or 26 characters key then the system will automatically transfer to 64-bit HEX, ASCII or 128-bit HEX, ASCII keys, the rules are as below.

If the key length is 64-bit, enter 10-digit Hex values or 5-digit ASCII values as the encryption keys. For example: “0123456aef” or “Guest”.

If the key length is 128-bit, enter 26-digit Hex values or 13-digit ASCII values as the encryption keys. For example: “01234567890123456789abcdef” or “administrator”.

WPA-PSK/WPA2-PSK Security Mode:

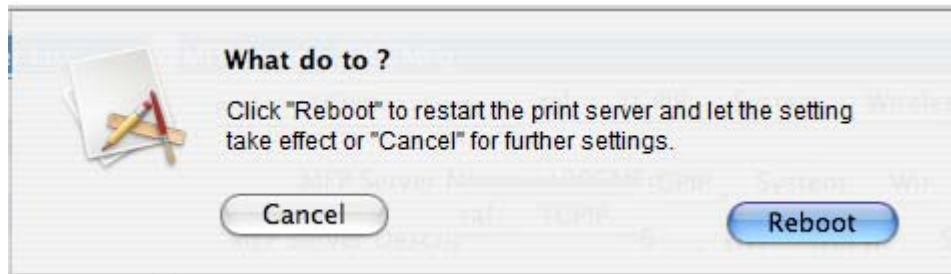


“WPA-PSK” and “WPA2-PSK” can automatically transfer keys to TKIP or AES by random.

Network Key – Enter 8 to 63 digits to be the key for authentication within the network.

TKIP(WPA-PSK & WPA2-PSK) – TKIP (Temporal Key Integrity Protocol) changes the temporal key every 10,000 packets. This insures much greater security than the standard WEP security.

AES(WPA2-PSK) – AES has been developed to ensure the highest degree of security and authenticity for digital information and it is the most advanced solution defined by IEEE 802.11i for security in a wireless network.



When you finish configuring wireless security, click "Save" and a "What to do" message pop out. Please click "Reboot" to let the Wireless setting take effect.

6. Web Management

6.1 Introduction

The MFP Server can be configured and managed on the Web. Through the Local Area Network, or even the Internet, the administrator can easily configure and manage MFP Server's various main functions in a browser. Simply enter the MFP Server's IP address into your browser's address field to manage a MFP Server by through its built-in Web Server.

The default IP Address, User Name and Password settings of the MFP Server are as follows.

IP Address: 192.168.2.2

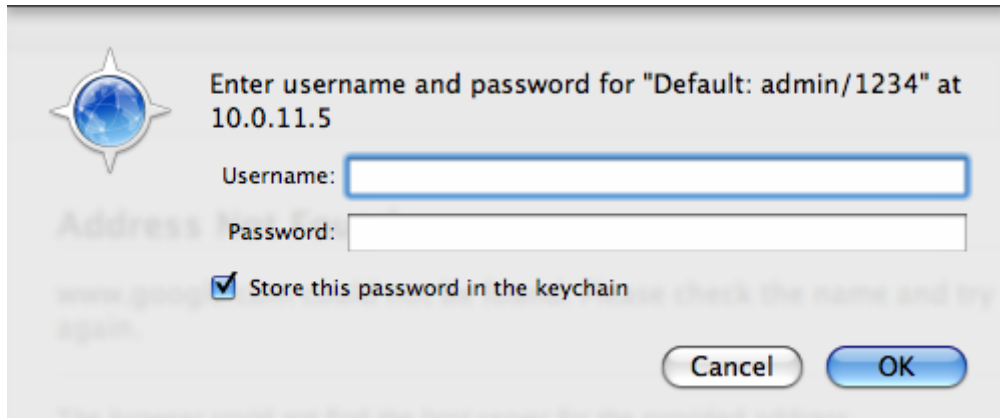
User Name: Admin

Password: 1234

6.2 Login

You may use any Web Browser to review the status or configure the settings of the MFP Server. After entering the IP address of the MFP Server, a login page displays. You have to enter the correct "User Name" and "Password" before going to the Web Management pages.

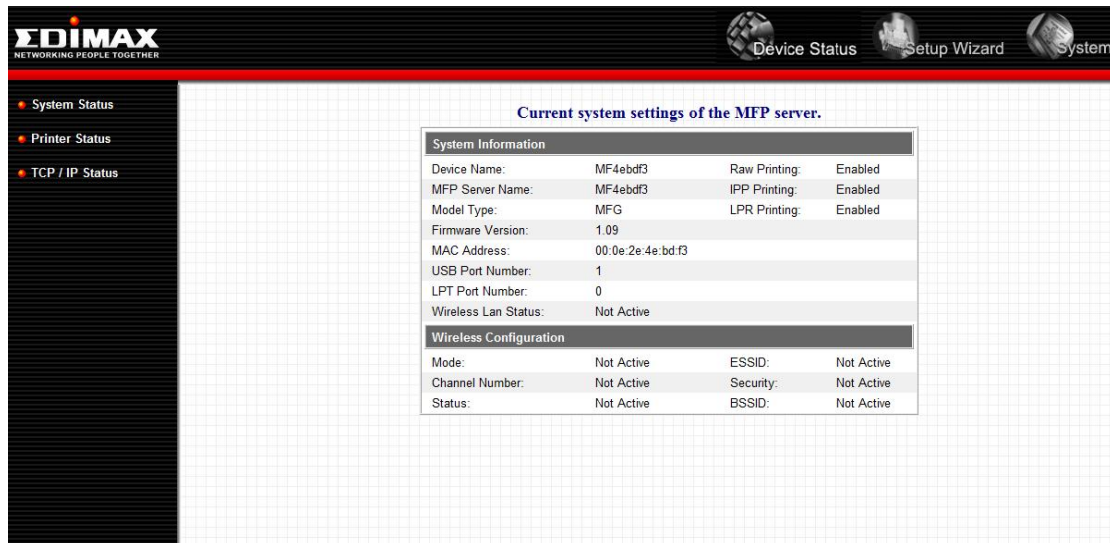
Note: Default User Name is "admin", default password is "1234".



The image shows a login dialog box with a globe icon on the left. The text reads: "Enter username and password for 'Default: admin/1234' at 10.0.11.5". Below this, there are two input fields: "Username:" and "Password:". A checkbox labeled "Store this password in the keychain" is checked. At the bottom right, there are "Cancel" and "OK" buttons.

6.3 Device Status

6.3.1 System Status



The screenshot shows the DIMAX web interface. The top navigation bar includes "Device Status", "Setup Wizard", and "System". The left sidebar has "System Status", "Printer Status", and "TCP / IP Status". The main content area is titled "Current system settings of the MFP server." and contains two tables.

System Information			
Device Name:	MF4ebdf3	Raw Printing:	Enabled
MFP Server Name:	MF4ebdf3	IPP Printing:	Enabled
Model Type:	MFG	LPR Printing:	Enabled
Firmware Version:	1.09		
MAC Address:	00:0e:2e:4e:bd:f3		
USB Port Number:	1		
LPT Port Number:	0		
Wireless Lan Status:	Not Active		

Wireless Configuration			
Mode:	Not Active	ESSID:	Not Active
Channel Number:	Not Active	Security:	Not Active
Status:	Not Active	BSSID:	Not Active

System Information includes “Device Name”, “MFP Server Name”, “Model Type”, “Firmware Version”, “MAC Address”, “Wireless Configuration”, and the protocols enabled status, etc.

6.3.2 Printer Status



The screenshot shows the EDIMAX MFP Manager interface. The top navigation bar includes the EDIMAX logo and three icons: Device Status, Setup Wizard, and System Tools. A left sidebar contains three menu items: System Status, Printer Status, and TCP / IP Status. The main content area displays the title "Connected printer on the MFP server." and a table for "Printer 1".

Printer 1	
Manufacturer :	
Model Number :	
Printing Language Supported :	
Current Status :	Off_line

Note: if your printer does not support bi-directional function, some information will not be displayed correctly.

This page lists information and status of the all-in-one printer or printer connected to the MFP Server port. The status of the all-in-one printer or printer includes "Connected", "Ready", "Off Line" or "Paper Out".

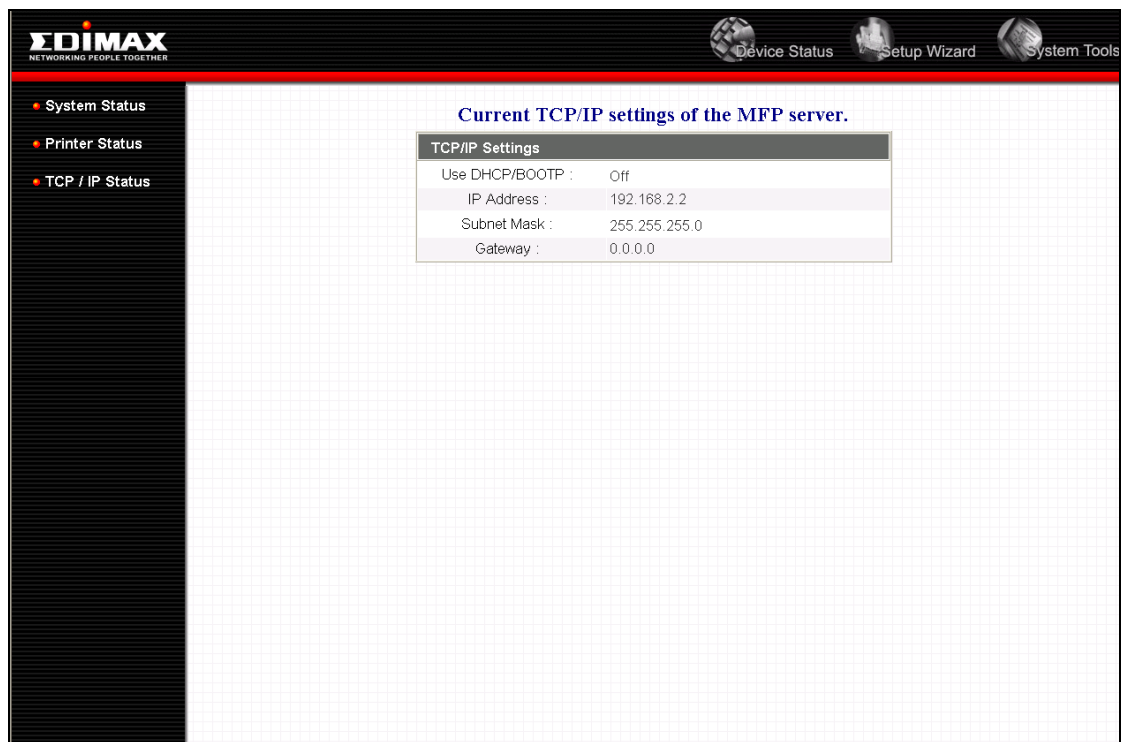
Connected: a user has clicked the "Connect" button in the "MFP Manager" utility. The user's computer and the all-in-one printer are connected.

Ready: the all-in-one printer or printer is not connected by a user and is ready to use.

Off Line: the all-in-one printer or printer is not connected to MFP Server through a USB cable, or it is turned off.

Paper Out: the all-in-one printer or printer is not connected by a user and is out of paper.

6.3.3 TCP/IP Status



The screenshot displays the EDIMAX web interface. The top navigation bar includes the EDIMAX logo (NETWORKING PEOPLE TOGETHER) and three menu items: Device Status, Setup Wizard, and System Tools. A left sidebar contains three menu items: System Status, Printer Status, and TCP / IP Status. The main content area is titled "Current TCP/IP settings of the MFP server." and contains a table with the following data:

TCP/IP Settings	
Use DHCP/BOOTP :	Off
IP Address :	192.168.2.2
Subnet Mask :	255.255.255.0
Gateway :	0.0.0.0

This page lists all TCP/IP settings of the MFP Server including “IP Address”, “Subnet Mask” and “Gateway”. It also can tell whether the DHCP server is “On” or “Off”.

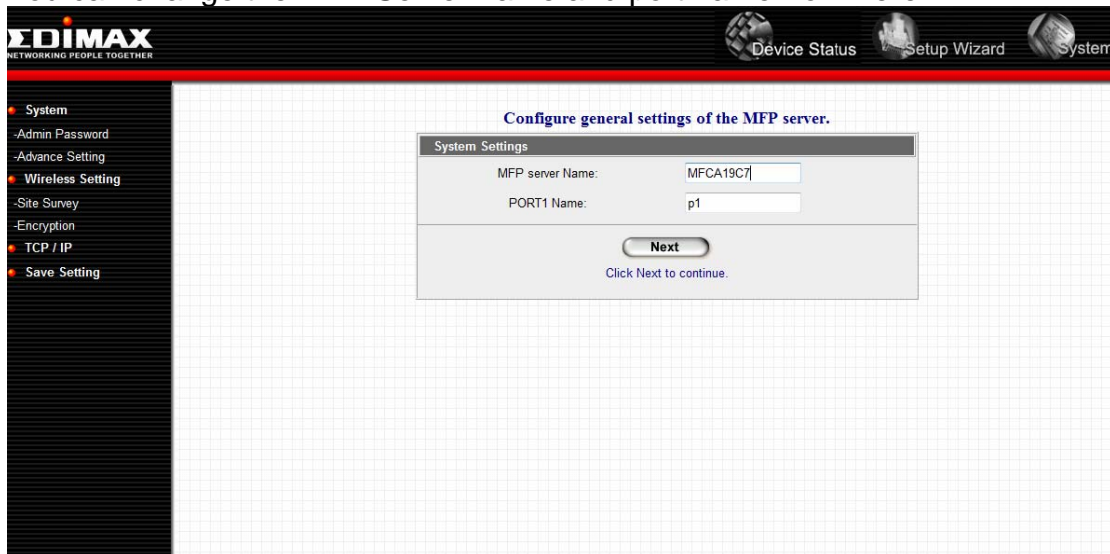
6.4 Setup Wizard

Note: You can configure the MFP Server from the Setup Wizard. To let the changes take effect, you have to click “Save Settings” in the menu on the left side to reboot the MFP Server.

6.4.1 System

6.4.1.1 Admin Password

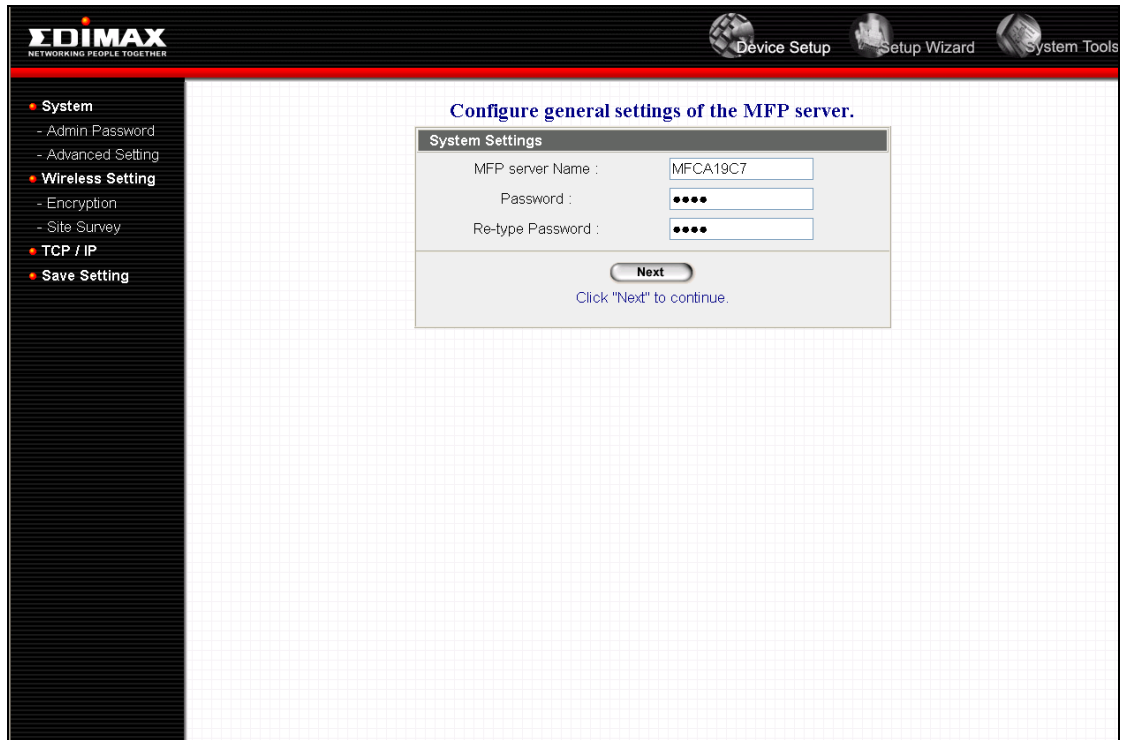
You can change the MFP Server name and port name from here.



The screenshot shows the EDIMAX Setup Wizard interface. The top navigation bar includes 'Device Status', 'Setup Wizard', and 'System'. A left sidebar menu lists various settings: System, Admin Password, Advance Setting, Wireless Setting, Site Survey, Encryption, TCP / IP, and Save Setting. The main content area is titled 'Configure general settings of the MFP server.' and contains a 'System Settings' form with two input fields: 'MFP server Name' (containing 'MFCA19C7') and 'PORT1 Name' (containing 'p1'). A 'Next' button is located below the fields, with the text 'Click Next to continue.' underneath it.

MFP Server Name: the name of the MFP Server. You can use this name to identify the MFP server when you are searching for it using the “Server Manager” utilities.

PORT Name: The name of the port which MFP server plugs on. The default port name is “p1”.



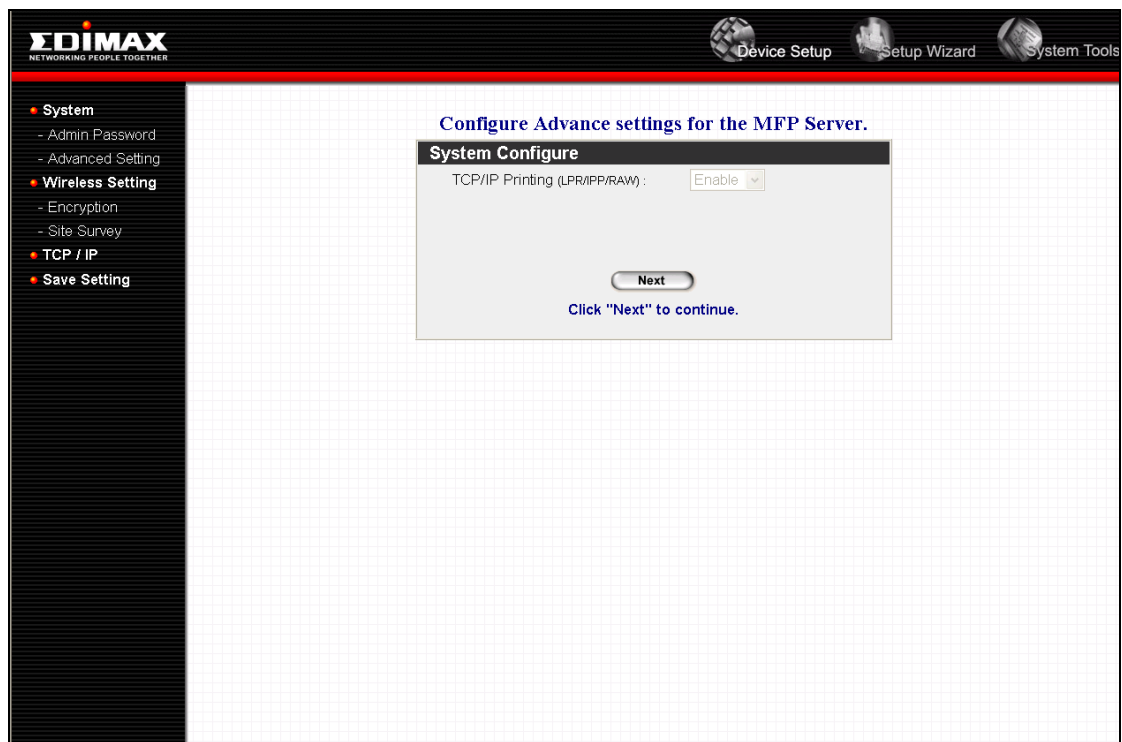
You can change the MFP Server name and password from here.

MFP Server Name: the name of the MFP Server. You can use this name to identify the MFP Server when you are searching for it using the “Server Manager” utilities.

Password: enter the password you want to change for the MFP Server. The password can be up to 7-6 digits in alphanumeric format. The default password is “1234”.

Re-type Password: enter the same password for the MFP Server again.

6.4.1.2 Advanced Settings

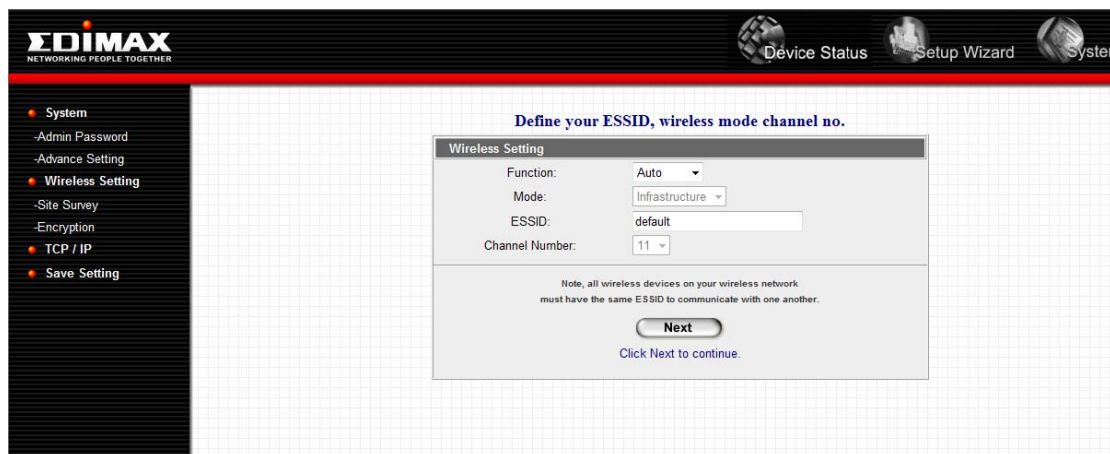


Some advanced feature of the MFP Server can be set here.

TCP/IP Printing (LPR/IPP/RAW): The MFP Server supports TCP/IP network protocol and LPR/IPP/RAW printing protocols. By default these protocols are enabled.

6.4.2 Wireless

If you want to use the MFP Server through a wireless LAN, please set up the MFP Server through Ethernet first and make sure your wireless LAN setting is correct. After setting the wireless LAN, unplug the Ethernet cable and restart the MFP Server. Then you can start to use the MFP Server through the wireless LAN. If the wireless configuration does not work, please plug in the Ethernet cable again, restart the MFP Server and configure the MFP Server through Ethernet until the wireless LAN settings are correct.



You can enable/disable the wireless function and set up the wireless parameters for the MFP Server from here. The parameters include “Function” and “ESSID”. You can manually set the wireless network that you want to connect in this page or use the “Site Survey” function to automatically search for an available wireless network and associate with it.

Function allows you to disable, enable or let the MFP Server auto select to connect to a wired or wireless network. If “Disable” is selected, the MFP Server can only connect to the network through wired Ethernet. If “Enable” is selected, the MFP Server can only connect to the network through a Wireless LAN. If “Auto” is selected, the MFP Server can automatically decide to enable or disable the wireless function. The MFP Server only can work in either Ethernet or wireless LAN mode. It cannot work in both Ethernet and wireless LAN mode at the same time. When the MFP Server starts up, it will auto-detect if the LAN port is connected to an active network by an Ethernet cable. If the MFP Server is connected to an active network by Ethernet cable when starting up, the MFP Server will run in Ethernet mode. If the MFP Server is not connected to an active network by Ethernet cable when starting up, the MFP Server will run in

wireless LAN mode. The MFP Server default is in “Auto” mode.

ESSID is the unique name identified by in a wireless LAN. The ID prevents the unintentional merging of two co-located WLANs. Please make sure that the ESSID of all stations and access points in the same WLAN network are the same.

Channel Number is the channel number of your wireless LAN. It is fixed on channel 11th.

6.4.2.1 Site Survey



You can use this “Site Survey” function to search for available access points in your location. In the list is the information for all available access points or wireless stations, including SSID, BSSID, Channel, Type, Encryption and Signal Strength. You can select one wireless device in the list for this MFP Server to associate with or go back to Wireless page to manually set up the wireless parameters.

There is “WLAN Function” setting lets you to set up Auto/Disable/Enable wireless function of the MFP Server. Please refer to section 6.4.2 to know more about the setting.

6.4.2.2 Encryption

This MFP Server supports WEP and WPA-PSK security mode. If you want to use WEP encryption to protect your wireless network, you have to select “WEP”. If you want to use WPA-PSK, you have to select “WPA-PSK” (for an infrastructure network or “WPA-None” (enables WPA security for an ad hoc network). The wireless security setting should match other wireless devices in the same network.

WEP Security Mode:

The screenshot shows the EDIMAX web interface for configuring wireless encryption. The page title is "Encryption your data over the wireless network." The "Encryption Setting" form is displayed on a grid background. The form includes the following fields and options:

- Mode: WEP (selected)
- Key length: 64-bit (selected)
- Key format: Hex (10 characters) (selected)
- Passphrase: [text input] [Generate]
- Default key: Key1 (selected)
- Key 1: [password input]
- Key 2: [password input]
- Key 3: [password input]
- Key 4: [password input]

Below the form, there is a warning message: "If this function is enabled, please make sure your wireless stations are using the same encryption keys as the MFP Server." and a "Next" button. A link "Click 'Next' to continue." is also present.

Key Length – You can choose “64-bit” to use WEP with 64-bit key length encryption or choose “128-bit” to use WEP with 128-bit key length encryption. The longer key length can provide better security but worse transmission throughput.

Key Format – You may select to use ASCII Characters (alphanumeric format) or Hexadecimal digits (in the "A-F", "a-f" and "0-9" range) to be the WEP Key.

PassPhrase – A “PassPhrase” simplifies the WEP encryption process by automatically generating the WEP encryption keys for the MFP Server.

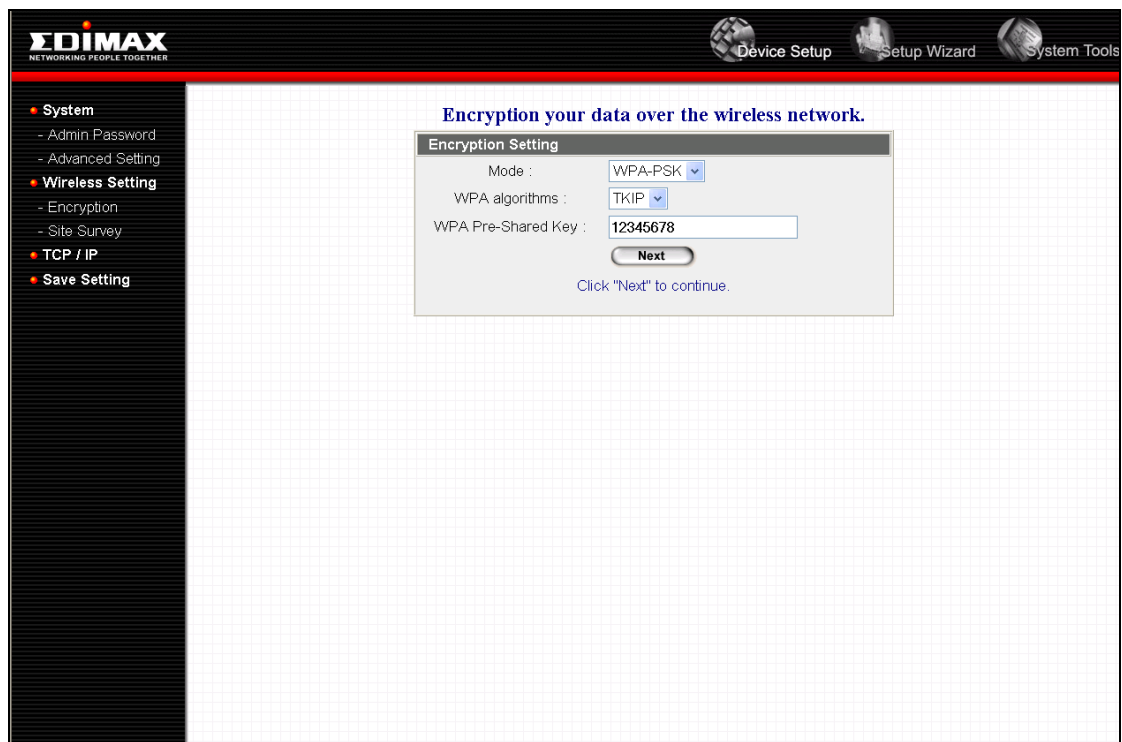
Default Key – Select one of the four keys to encrypt your data. Only the key you select in the “Default key” will take effect.

Key 1 – Key 4 – The WEP keys are used to encrypt data transmitted within the wireless network. Fill the text box by following the rules below.

64-bit WEP: input 10-digit Hex values (in the "A-F", "a-f" and "0-9" range) or 5-digit ASCII characters as the encryption keys. For example: “0123456aef” or “Guest”.

128-bit WEP: input 26-digit Hex values (in the "A-F", "a-f" and "0-9" range) or 10-digit ASCII characters as the encryption keys. For example: “01234567890123456789abcdef” or “administrator”.

WPA-PSK Mode:



“WPA-PSK” requires users to select the advanced encryption methods, (i.e. TKIP or AES) and enter a set of keys.

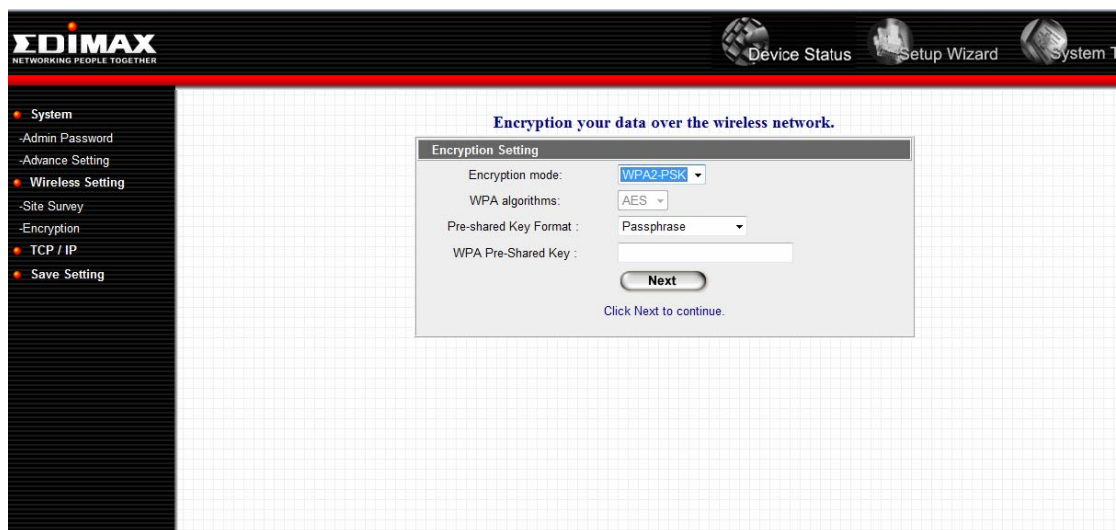
TKIP – TKIP (Temporal Key Integrity Protocol) changes the temporal key every 10,000 packets. This insures much greater security than the standard WEP security.

AES – AES has been developed to ensure the highest degree of security and authenticity for digital information and it is the most advanced solution defined by IEEE 802.11i for security in the wireless network.

WPA Pre-Shared key – Enter 8 to 63 digits of ASCII format to be the key for authentication within the network.

When you finish configuring the wireless security, click “Save & Next” to confirm the configuration.

WPA2-PSK Mode Security Mode:



TKIP – TKIP (Temporal Key Integrity Protocol) changes the temporal key every 10,000 packets. This insures much greater security than the standard WEP security.

Pre-shared Key Format – Select the type of pre-shared key, you can select Passphrase (8 or more alphanumerical characters, up to 63), or Hex (64 characters of 0-9, and a-f).

WPA Pre-Shared Key –Enter 8 to 63 digits of ASCII format to be the key for authentication within the network.

When you finish configuring the wireless security, click “Save & Next” to confirm the configuration.

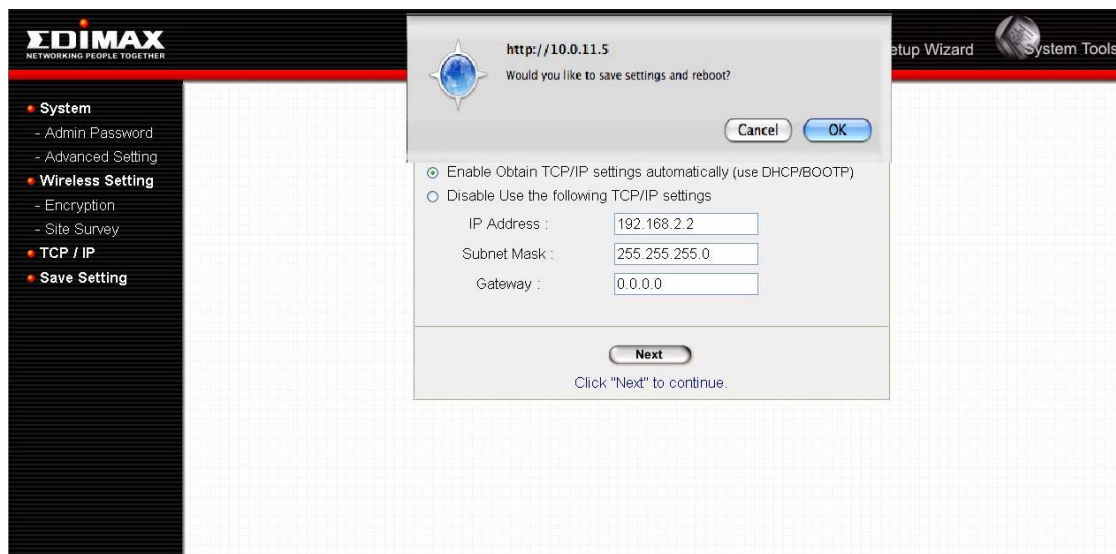
6.4.3 TCP/IP

The screenshot shows the EDIMAX web interface. The top navigation bar includes 'Device Setup', 'Setup Wizard', and 'System Tools'. The left sidebar contains a menu with 'System', 'Wireless Setting', 'TCP / IP', and 'Save Setting'. The main content area displays a dialog box titled 'Configure TCP/IP settings for the MFP server.' The dialog box has a 'TCP/IP Settings' header and two radio button options: 'Enable Obtain TCP/IP settings automatically (use DHCP/BOOTP)' (selected) and 'Disable Use the following TCP/IP settings'. Below these options are three input fields: 'IP Address' with the value '192.168.2.2', 'Subnet Mask' with '255.255.255.0', and 'Gateway' with '0.0.0.0'. At the bottom of the dialog box is a 'Next' button and the text 'Click "Next" to continue.'

You can configure the MFP Server to automatically get an IP address from DHCP server or manually specify a static IP.

If you need the MFP Server to automatically get an IP address from a DHCP server, select “Enable Obtain TCP/IP Settings Automatically (Use DHCP/BOOTP)”. You also can select “Disable Use the following TCP/IP Settings” to manually assign an “IP Address”, “Subnet Mask” and “Gateway” for the MFP Server.

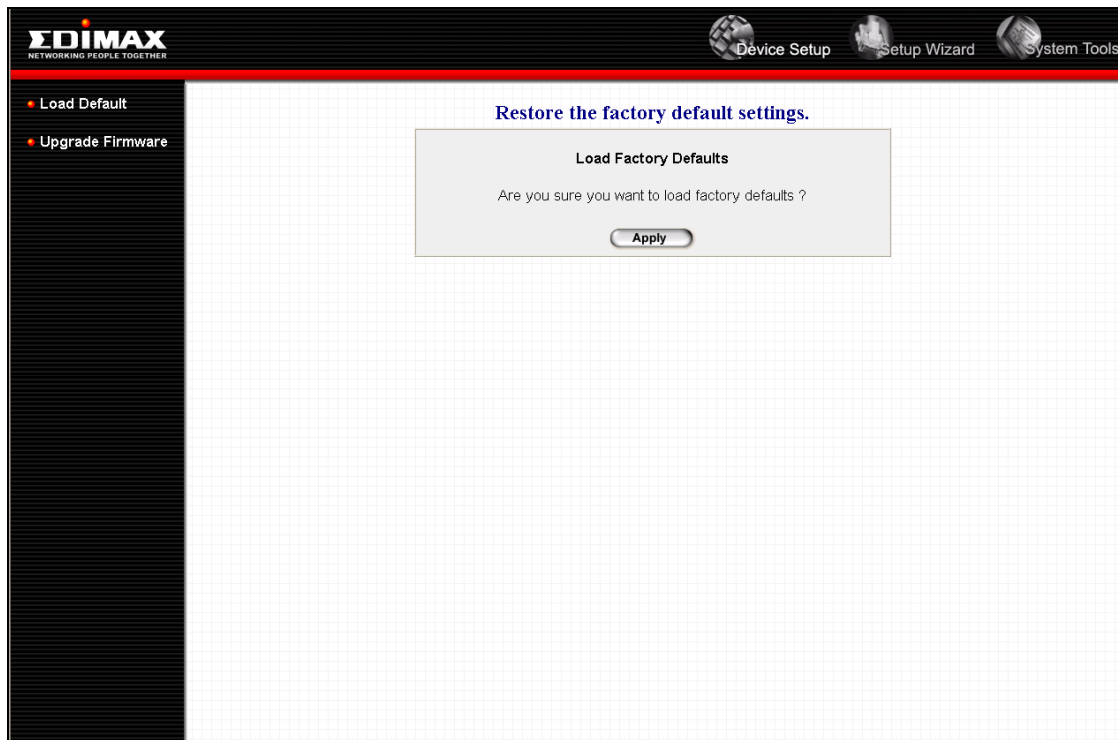
6.4.4 Save Settings



After configuring the MFP Server, you have to click “Save Settings” to save the settings and restart the system.

6.5 System Tools

6.5.1 Load Default



You can use this page to restore the factory default settings. All of your previous settings will be cleared.

6.5.2 Upgrade Firmware



You can upgrade new firmware for this MFP Server in this page. Click "Browse" to select the new firmware, and then click "OK". The firmware will be updated in several minutes.

Be aware that if you have started upgrading firmware, you have to follow all the upgrading steps or the MFP Server can't return to normal configuration.

7. Troubleshooting

1. The MFP Server is not found even after searching with the “MFP Manager”.

- Check if the power adapter and the network cable are connected to the MFP Server properly.
- Check if the LAN and Ready LEDs are turned on.
- Check if the IP Address of the MFP Server is in the some network segment as your computer.
 - If you are not sure of the IP Address setting of the MFP Server, please check the TCP/IP setting of the MFP Server from the “Server Manager”.

2. How do to change the IP Address of the MFP Server?

- A DHCP Server is installed in the network

If a DHCP Server is installed, you can let the MFP Server get an IP Address from the DHCP Server automatically.

1. Open “Server Manager” and then select “TCP/IP” setting.
2. Select “Auto IP” and click “Save”.
3. Reboot the MFP Server.

- Set up the IP Address Manually

1. Open “Server Manager” and then select “TCP/IP” setting.
2. Select “Static IP” and enter the IP Address and Subnet Mask that match your computer. Click “Save”.
3. Reboot the MFP Server.

Note: *Setting a static IP Address for MFP Server is recommended since DHCP assignment may dramatically change the IP Address of the MFP Server.*

3. A user stays connected to the MFP Server.

- Contact the current user and ask to disconnect the device.
- If the user forgets to disconnect the device, you can ask the administrator to release the device.

4. I can't use the all-in-one printer to scan, print, use the card reader, or fax a file even I have followed the instructions in the manual.
 - Attach the all-in-one printer to a PC directly and make sure it is operating correctly.

5. My computer has installed a firewall, and the MFP Server can't work normally.
 - Some firewalls, for example, the "Network Access Manager" firewall program installed with the nVidia network card may block the communication between the MFP Server and your computer; you have to add the MFP Server programs to the exception list of your firewall. The programs are as follows.
 1. Add the "servoap.exe" program to the exception list.
 2. Add "mfpageant.exe" program to the exception list.



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