

Support Document



IntelliBar Net100 Series Printers Macintosh OS X Network Setup Guide

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Warning

This equipment has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against such interference when operating in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with this guide, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause interference in which case the user, at his or her own expense, will be required to take whatever measures will be required to correct the interference.

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Introduction

This guide is specifically intended for the quick network set up of the IntelliBar Net100 ("Net 100") printers in a Macintosh OS 10.5.2 and later network.

For more detailed instructions about other IntelliBar Net100 printer configurations refer to the IntelliBar User's Guide located on the CD-ROM supplied with your Net100 printer or go to the IntelliTech International, Inc. web site, <http://www.intellitech-intl.com/index.asp?page=techsupp/techdocs/newuserguide.asp>.

FCC Compliance

According to 47CFR, Part 2 and 15 for Class B Personal Computers and Peripherals; and/or CPU Boards and Power Supplies used with Class B Personal Computers:

This device complies with 47CFR Part 2 and 15 of the FCC rules as a Class B digital device FOR HOME OR OFFICE USE. Each product marketed, is identical to the representative unit tested and found to be compliant with the standards. Records maintained continue to reflect the equipment being produced can be expected to be within the variation accepted, due to quantity production and testing on a statistical basis as required by 47CFR §2.909. 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.

Standards used and met in the assessment:

EN55022: 1998 Class B; CFR Title 47, Part 15, Subpart B, Subpart C, and Subpart E

Information for Canadian Users (IC notice)

The term "IC" before the radio certification number only signifies that Industry of 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.

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

To prevent radio interference to the licensed service, this device is intended to be operated indoors and away from windows to provide maximum shielding. Equipment that is installed outdoors is subject to licensing.

This device has been designed to operate with an antenna having a maximum gain of 2 dB. Antenna having a higher gain is strictly prohibited per regulations of Industry Canada. The required antenna impedance is 50 ohms.

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 the required for successful communication.

Information for European Users

The print server and its optional 802.11a, 802.11b, 802.11g and 802.11n wireless technology is in compliance with the Class B Information Technology Equipment requirements and other relevant provisions of European Directive 1999/5/EC. The limits for Class B equipment were derived for typical residential environments to provide reasonable protection against interference with licensed communications devices. The internal function is a radio device using the 2.4 GHz frequency band (2.400GHz - 2.4845 GHz) and 5. GHz frequency band (5.150GHz - 5.825GHz). It is intended for wireless communication with other 802.11a, 802.11b, 802.11g and 802.11n-enabled devices in an indoor environment.

The use of 802.11a, 802.11b, 802.11g and 802.11n wireless technology in certain countries may be restricted. Before using 802.11x products, please confirm with the frequency management authority in the country where you plan to use it. Many countries allow indoor use only. In Italy, general authorization is required if used outside. In France, the use of certain channels is restricted outdoors. In some situations or environments, the use of 802.11x wireless technology might be restricted by the proprietor of the building or responsible representatives of the organization, for example, in airplanes, in hospitals or in any other environment where the risk of interference with other devices or services is perceived or identified as harmful.

If you are uncertain of the policy that applies to the use in a specific organization or environment, you are encouraged to ask for authorization to use 802.11x wireless technology prior to switching it on. Consult your physician or the manufacturer of personal medical devices (pacemakers, hearing aids, etc.) regarding any restrictions on the use of 802.11x wireless technology.

IntelliTech International, Inc. cannot be responsible for any failure to satisfy the protection requirements resulting from a non-recommended modification of the product.

Declaration of Conformity (CE)

The above-referenced product, to which this declaration relates, is in conformity with the provisions of:

Council Directives 1999/5/EC (March 9, 1999), Radio Equipment and Telecommunications Terminal Equipment.

Standards used and met in the assessment:

- EN301 489-1 (V1.5.1, 2004-11)
- EN301 489-17 (V1.2.1, 2002-08)
- EN300 328 (V1.5.1, 2004-08)
- EN60950

IntelliBar Net100 Series Printers –Macintosh OS X Setup Guide

Introduction

This document provides instructions for installing IntelliBar Net100 Series printers in a Macintosh OS X computer system network.

IntelliBar Net100 printers are required for use with Macintosh computer networks.

NOTE: IntelliBar Standard Series printers are not compatible with Macintosh computer networks.

IntelliBar Net100 Macintosh printer drivers work with Mac OS 10.5.1 and later Mac OS versions.

Three IntelliBar Net100 Macintosh printer drivers are installed concurrently for the IntelliBar M48 Net100, M412 Net100 and M88 Net100 printers.

There are four steps for configuring the IntelliBar printers into a Macintosh Leopard system:

1. Set up the IntelliBar printer.
2. Connect the IntelliBar printer to your network.
3. Install the IntelliBar printer and drivers on your Mac.
4. Configure the IntelliBar Net100 embedded print server.

1. Set up the IntelliBar Net100 Printer

The IntelliBar Net100 should have the necessary supplies (ribbon, labels or other media) installed and should be configured for your printing requirements. If necessary, refer to IntelliBar User's guide located on the CD-ROM supplied with your printer or access the [IntelliBar User's Guide](#) on the IntelliTech International web site.

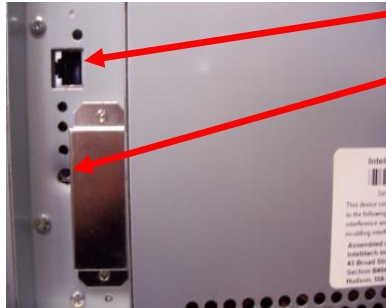
2. Connect the IntelliBar printer to your network

- A. Connect the printer to your network with an Ethernet CAT5 or CAT6 cable. Connect one end of the cable to the network device. With the printer powered off, plug the other end of the cable into the Net100 print server socket, which is located on the lower left rear panel of the printer.
- B. Turn on the printer power. The IntelliBar print server is set to DHCP Boot Mode as the factory default. In this mode when the printer is powered on, it will automatically be assigned an IP address by your network OS. NOTE: We recommend that you change the Boot Mode to STATIC when you configure the print server in Step 4.

- C. After the printer powers up the control panel display will read ONLINE READY. Once this message is displayed, print a print server status report by pushing the test-print/reset-default button on the back of the printer.

CAUTION: Pressing the button for five seconds or longer will reset the print server settings to factory defaults. Any changes you may have made to the print server settings will be lost!

Ethernet RJ45 Socket



Test Print Button Location. Located behind the bottom hole beneath the RJ 45 socket. Push the button for two seconds or less to print a print server status report.

Use a straightened paper clip to push the button. The print server status report will print out. Note the IP address. You will need this address later in order to configure the print server.

```
----- Server Status -----
Internal Print Server
FW Ver. RKS-1.06 (2007.06.05)
Boot Ver. 7.3
Ethernet: 00-40-17-6B-07-12
Serial number: 7014162
FW PN 75184-030B
BOOT FW PN 76184-020C
Node name:
IPS6B0712

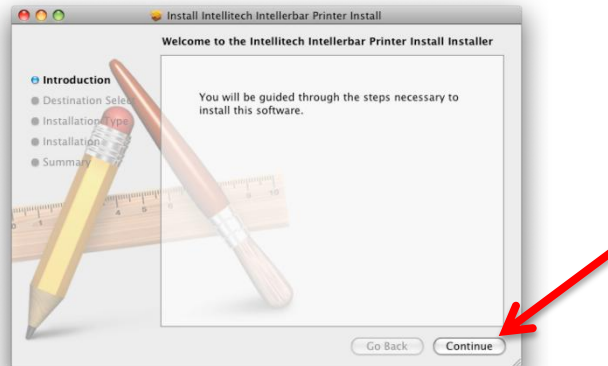
Active services:
IPS6B0712_P1
BINARY_P1
TEXT_P1
POSTSCRIPT_P1
PCL_P1
IPS6B0712_P1_AT
IPS6B0712_P1_S7
IPS6B0712_P1_S8

TCP/IP      Enabled
Netware     Enabled
AppleTalk   Enabled
POP3        Enabled
DLC         Enabled
NetBIOS/IP  Enabled
NetBEUI     Enabled
LAT         Enabled
Banyan      Disabled

IP address  192.0.0.192
Subnet mask 0 0.0.0
IP Gateway  0.0.0.0
```

3. Install the IntelliBar Mac OS X Printer Drivers

- A. Download the IntelliBar printer Macintosh drivers from the [IntelliTech web site](#), or locate them in the CD-ROM provided with your printer in the IntelliBar Mac Driver Folder.
- B. Double click on the *IntelliBar Mac OS X Driver pkg* file, which is located in the IntelliBar Mac Driver Folder. The “Installer” window will appear. Click the “Continue” button.



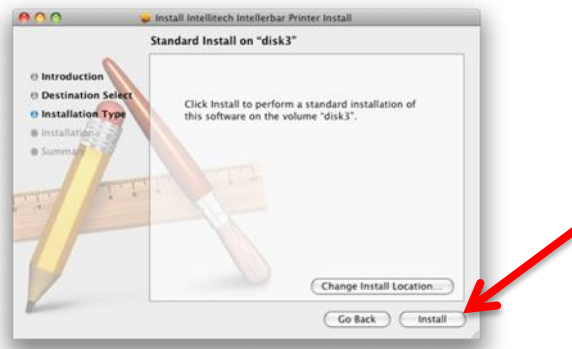
- C. You will be prompted to select a destination for installing the driver package. In this example, “disk3” is the only available destination. Choose your destination by clicking on its icon.



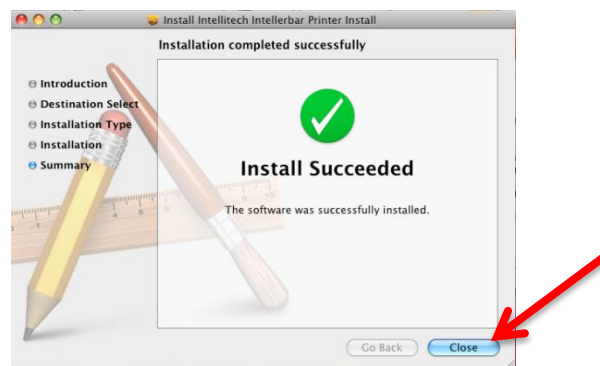
- D. Click on the “Continue” button to install the driver. Your system may prompt you to enter a password in order to continue the installation. If you are prompted for a password and do not know what the password is, contact your system administrator for assistance.



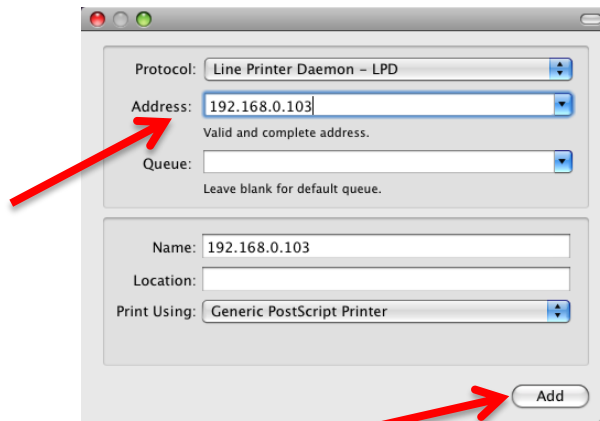
- E. Click the “Install” button if needed to proceed. The drivers will be installed on the target drive.



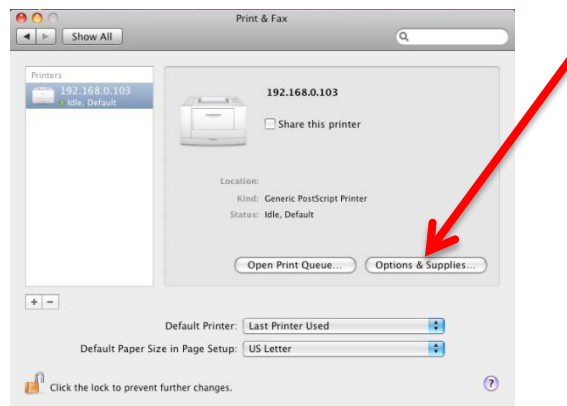
- F. After a successful install, click on the “Close” button to finish the driver install to the Hard Drive.



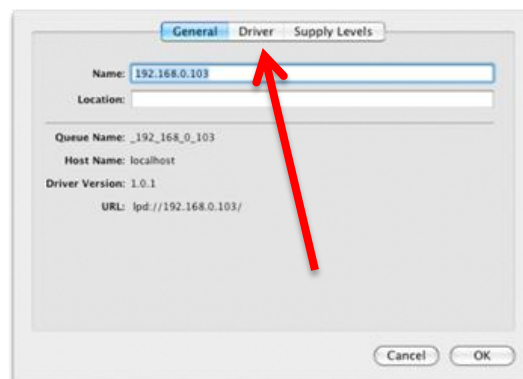
- J. Refer to the print server status report you printed earlier. Type the IP address in the report into the Address Window as shown below. The IP address “192.168.0.103” is used only as an example in this illustration.



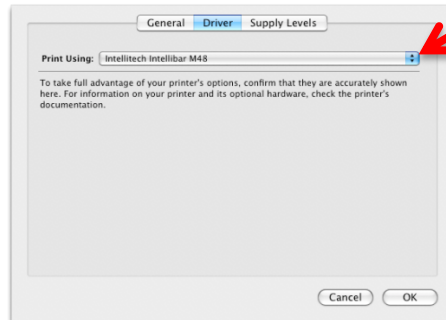
- K. Click the “Add” button.
- L. Click on the “Options & Supplies” button in the middle right hand side.



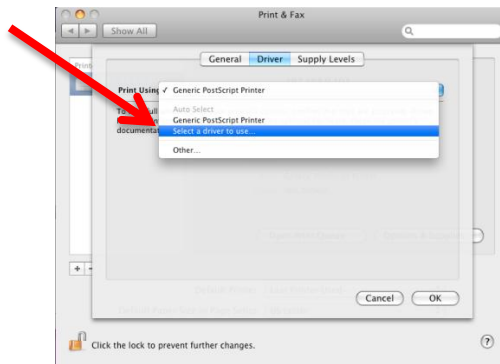
- M. In the “Options and Supplies” window, click on the Driver tab.



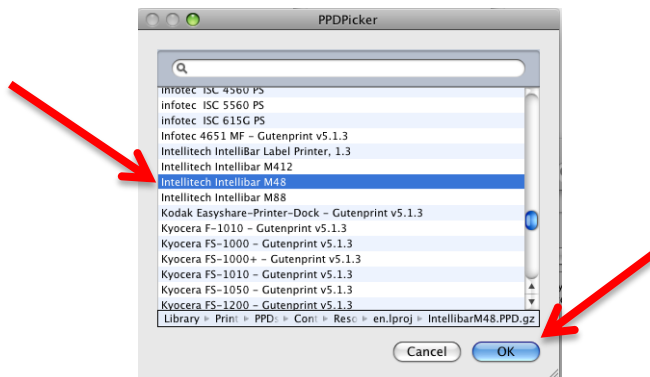
- N. The “Print Using:” window will open. Click on the up/down arrows in blue on the right side of the “Print Using” line.



- O. Click on “Select a driver to use ...” line as shown below.



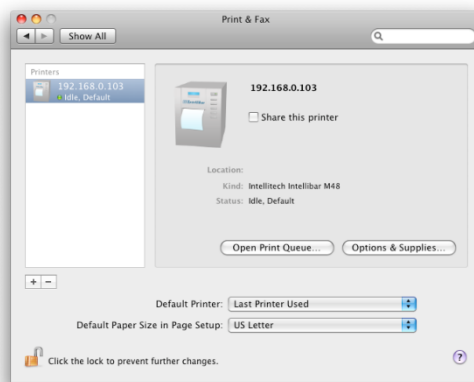
- P. Scroll down the list and click to highlight your IntelliBar Printer Model, then click the OK button.



- Q. The printer that you selected will appear in the Print Using: window. Click the OK button.



- R. If the IntelliBar driver is correctly installed, the following window will appear under the Print and Fax icon.

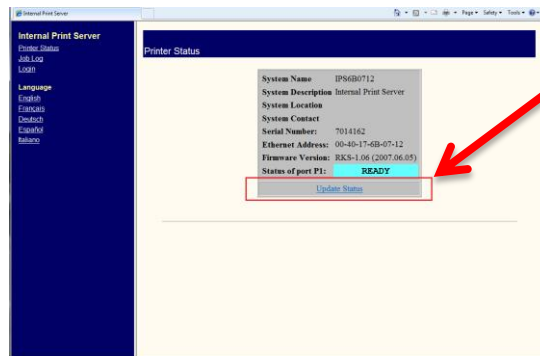


- S. The installation of the IntelliBar printer and its driver is now complete

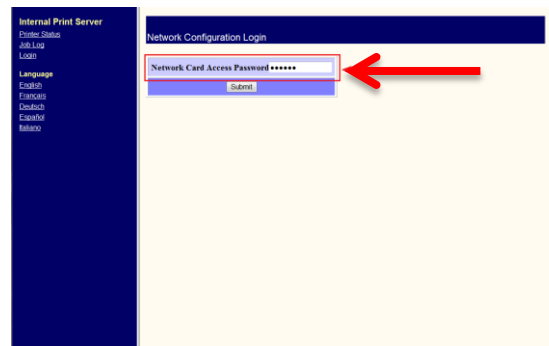
4. Configuring the IntelliBar Net100 Embedded Print Server

- A. Link to the Net100 web server.
- I. Open a web browser on a computer attached to the same network as the Net100 printer.
 - II. Enter the Net100 IP address from the print server status page in the browser locator window and press the enter key.

- III. The browser will connect to the Net100 embedded web server and the “Printer Status” page window will open. Click on the [“Update Status”](#) link.



- IV. The “Network Configuration Login” page will open. You will be prompted to enter a password. Enter the password “access” (not case sensitive) and click on the “Submit” button. You will be granted access to the Printer Status Page.



< CONTINUED ON NEXT PAGE >

- B. Click on the “TCP/IP” link on the left side of the Printer Status page, which will open the “Configure TCP/IP” page.

The screenshot shows the 'Internal Print Server' configuration interface. On the left, a navigation menu includes 'Printer Status', 'Job Log', 'Server Settings', 'Printer Port', 'Print Services', 'NetWare', 'TCP/IP' (highlighted with a red arrow), 'EtherTalk', 'NetBIOS/NetBEUI/DLC', 'PrintNet', 'Alerts and Traps', 'Admin', 'Logout', and 'Language'. The main area is titled 'Configure TCP/IP' and contains several sections:

- TCP/IP**: A section with radio buttons for 'Enable' (selected) and 'Disable'.
- Enabled Services**: A list of services including 'IP\$6B0712_P1', 'BINARY_P1', 'TEXT_P1', 'POSTSCRIPT_P1', 'PCL_P1', 'IP\$6B0712_P1_S7', and 'IP\$6B0712_P1_S8'. A question mark '?' is in the right column.
- IP Address**: Fields for 'IP Address' (192.168.1.47), 'Subnet Mask' (255.255.255.0), and 'Gateway' (192.168.1.1). A question mark '?' is in the right column. Below these are 'Boot Method' (set to AUTO) and 'Boot Tries' (set to 3).
- RARP Boot Settings**: Checkboxes for 'No Subnet Mask' and 'No Gateway', with a question mark '?' in the right column.

Below the configuration fields, there are several paragraphs of text, each starting with 'entire job is transferred, the print server will wait to see if the host tries to send the job again. If so, the print server will skip over the portion of the job already received and continue printing where the first job was terminated'. Each paragraph is followed by an 'Access Control' section with a link to control remote computer access.

- C. In the “Configure TCP/IP” window, “IP Address” block enter the desired IP Address, Subnet Mask and Gateway information.

This is a close-up view of the 'Configure TCP/IP' window. The 'IP Address' section is highlighted with a red box, and a red arrow points to the 'IP Address' input field. The values are: IP Address: 192.168.1.47, Subnet Mask: 255.255.255.0, and Gateway: 192.168.1.1. The 'Enabled Services' list is visible above, and the 'RARP Boot Settings' are visible below.

Note: If the IP address you enter here is different than the IP address you used in Step 3.M. above to install the printer on your Mac, you must change the IP address in the Mac printer setup to the same address as this one. Otherwise the printer cannot be found on the network by the Mac.

- D. Set Boot Method. The default Boot Method is set to “Auto.” From the drop down menu you may select alternate boot methods: Auto, Bootp, DHCP, Rarp, Static. Choose the method you prefer.

Configure TCP/IP

TCP/IP	<input checked="" type="radio"/> Enable <input type="radio"/> Disable	
Enabled Services	IPS6B0712_P1 BINARY_P1 TEXT_P1 POSTSCRIPT_P1 PCL_P1 IPS6B0712_P1_S7 IPS6B0712_P1_S8	?
IP Address	IP Address <input type="text" value="192.168.1.47"/> Subnet Mask <input type="text" value="255.255.255.0"/> Gateway <input type="text" value="192.168.1.1"/> Boot Method <input type="text" value="AUTO"/> <input type="button" value="v"/> Boot Tries <input type="text" value="3"/>	?
RARP Boot Settings	<input type="checkbox"/> No Subnet Mask <input type="checkbox"/> No Gateway	?

NOTE: If you wish to retain the same IP address, subnet mask and gateway address, choose “Static.” The Static Boot Method is preferred and recommended in order to prevent lost print jobs. Should the IP address be assigned dynamically (DHCP) the printer may receive a different IP address. Computers configured with the printer’s initial IP address will not be able to locate the printer with the new address and will not be able to print to the Net100 as a consequence.

- E. Set Timeout. Scroll down the “Configure TCP/IP” window to the TCP Timeout setting. The default setting is set to 1 minute. Change the setting to “0.” Changing the setting to 0 prevents the printer from ever timing out, keeping it constantly available to receive print jobs.

Applications Enabled	<input checked="" type="checkbox"/> FTP <input checked="" type="checkbox"/> Telnet <input type="checkbox"/> S-TELNET <input checked="" type="checkbox"/> HTTP <input type="checkbox"/> HTTPS <input checked="" type="checkbox"/> POP3 <input checked="" type="checkbox"/> SMTP <input checked="" type="checkbox"/> SNMP <input checked="" type="checkbox"/> NETBIOS <input checked="" type="checkbox"/> SLP <input checked="" type="checkbox"/> DNS <input checked="" type="checkbox"/> TFTP	?
TCP Window	<input type="text" value="10240"/>	?
TCP Timeout	<input type="text" value="0"/> <input type="text" value="sec"/> <input type="button" value="v"/>	?
LPD Settings	<input type="checkbox"/> LPD Banner Enable <input type="checkbox"/> LPD Retry Enable	?
Keepalive Timer	<input type="text" value="1"/> <input type="text" value="min"/>	?
Probe Idle Connections	<input type="radio"/> Enable <input checked="" type="radio"/> Disable	?
Access Control	Configure IP Access Control	?
SLP	Configure SLP	
DNS	Configure DNS	
<input type="button" value="Submit"/>		

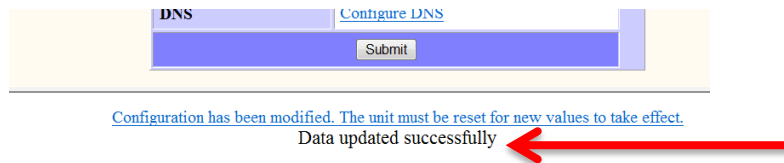
- F. Set Keep Alive. Scroll click on the Keepalive Timer setting. The default setting is set to zero (0) minutes. Change the setting to "1." Changing the setting to 1 enables the printer to send a notification of its presence on the network once every minute, which prevents the printer from becoming "lost" to the network.

Applications Enabled	<input checked="" type="checkbox"/> FTP <input checked="" type="checkbox"/> Telnet <input type="checkbox"/> S-TELNET <input checked="" type="checkbox"/> HTTP <input checked="" type="checkbox"/> HTTPS <input checked="" type="checkbox"/> POP3 <input checked="" type="checkbox"/> SMTP <input checked="" type="checkbox"/> SNMP <input checked="" type="checkbox"/> NETBIOS <input checked="" type="checkbox"/> SLP <input checked="" type="checkbox"/> DNS <input checked="" type="checkbox"/> TFTP	?
TCP Window	10240	?
TCP Timeout	0 sec	?
LPD Settings	<input type="checkbox"/> LPD Banner Enable <input type="checkbox"/> LPD Retry Enable	?
Keepalive Timer	1 min	?
Probe Idle Connections	<input type="radio"/> Enable <input checked="" type="radio"/> Disable	?
Access Control	Configure IP Access Control	?
SLP	Configure SLP	
DNS	Configure DNS	
<input type="button" value="Submit"/>		

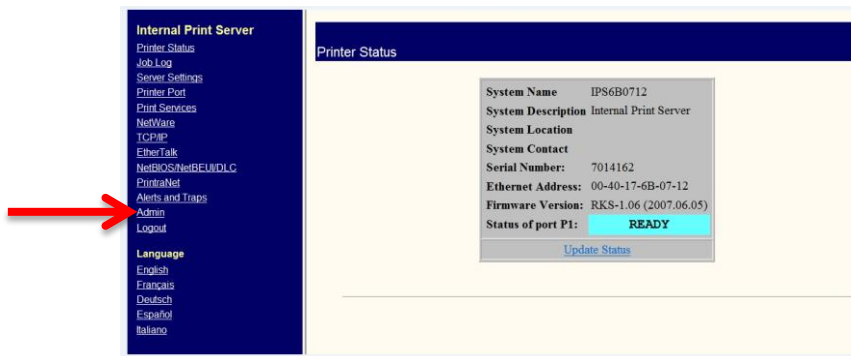
- G. Submit settings changes. To apply your settings changes, click on the Submit button at the bottom of the Printer Status Page.

Applications Enabled	<input checked="" type="checkbox"/> FTP <input checked="" type="checkbox"/> Telnet <input type="checkbox"/> S-TELNET <input checked="" type="checkbox"/> HTTP <input checked="" type="checkbox"/> HTTPS <input checked="" type="checkbox"/> POP3 <input checked="" type="checkbox"/> SMTP <input checked="" type="checkbox"/> SNMP <input checked="" type="checkbox"/> NETBIOS <input checked="" type="checkbox"/> SLP <input checked="" type="checkbox"/> DNS <input checked="" type="checkbox"/> TFTP	?
TCP Window	10240	?
TCP Timeout	0 sec	?
LPD Settings	<input type="checkbox"/> LPD Banner Enable <input type="checkbox"/> LPD Retry Enable	?
Keepalive Timer	1 min	?
Probe Idle Connections	<input type="radio"/> Enable <input checked="" type="radio"/> Disable	?
Access Control	Configure IP Access Control	?
SLP	Configure SLP	
DNS	Configure DNS	
<input type="button" value="Submit"/>		

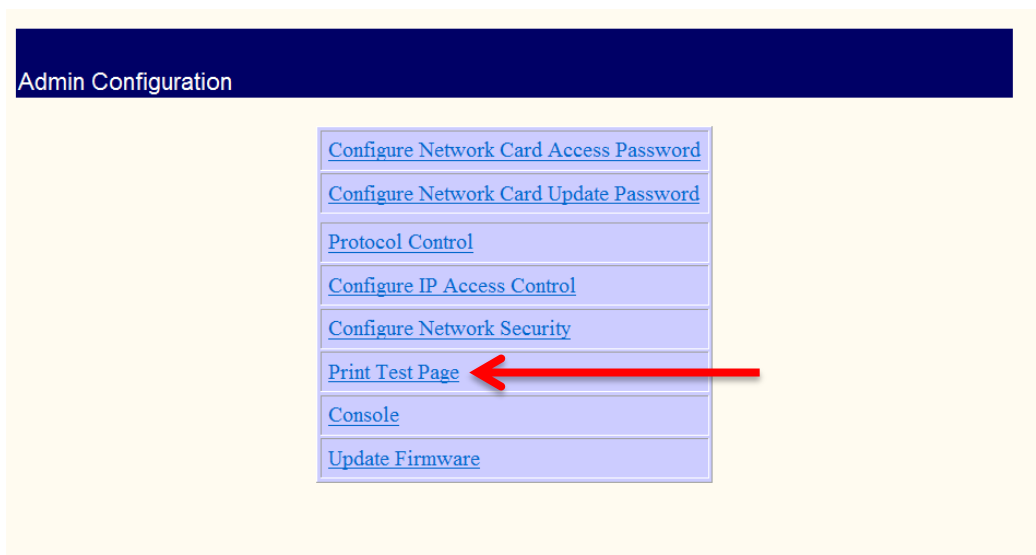
- H. If you settings have successfully changed the printer configuration you will see the following message: "Configuration has been modified. The unit must be reset for new values to take effect. Data updated successfully."



- I. Confirm Settings Changes. Click on the Admin button on the left side of the Printer Status Page. The Admin Configuration page will appear.



- J. Click the Print Test Page link. The Net100 will then print a test page.



- K. The test page provides (1) a confirmation of network connectivity between the host computer and the printer and (2) a listing of the printer network setting.

Verify that the settings in the test page are the desired settings. If all settings are correct, your IntelliBar Net100 printer is now successfully configured for your network.

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