I am having difficulty setting up Wired Equivalent Privacy (WEP) security on a Belkin client card.

The client card must use the same key as the Router. For instance, if your Router uses the key 00112233445566778899AABBCC, then the client card must be set to the exact same key.

- 1. Double-click the Signal Indicator icon to bring up the "Wireless Network" screen.
- 2. The "Advanced" button will allow you to view and configure more options of the card.
- **3.** Once the "Advanced" button is clicked, the Belkin Wireless LAN Utility will appear. This Utility will allow you to manage all the advanced features of the Belkin Wireless Card.
- **4.** Under the "Wireless Network Properties" tab, select a network name from the "Available Networks" list and click the "Properties" button.
- 5. Under "Data Encryption", select "WEP".
- **6.** Ensure the check box "The key is provided for me automatically" at the bottom is unchecked. If you are using this computer to connect to a corporate network, please consult your network administrator if this box needs to be checked.
- 7. Type your WEP key in the "Network key" box.

Important: A WEP key is a mixture of numbers and letters from A-F and 0-9. For 128-bit WEP, you need to enter 26 keys. This network key needs to match the key you assign to your Router.

For example: C3030FAF4BB2C3D44BC3D4E7E4 = 128-bit key

8. Click "OK", and then "Apply" to save the settings.

If you are NOT using a Belkin wireless client card, please consult the manufacturer's user manual for that wireless client card.

Do Belkin products support WPA/WPA2?

Note: To use WPA security, all your clients must be upgraded to drivers and software that support it. At the time of this FAQ publication, a security patch download is available, for free, from Microsoft. This patch works only with the Windows XP operating system.

Download the patch here:

http://www.microsoft.com/downloads/details.

You also need to download the latest driver for your Belkin Wireless 802.11g Desktop or Notebook Network Card from the Belkin support site. Other operating systems are not supported at this time. Microsoft's patch only supports devices with WPA-enabled drivers such as Belkin 802.11g products.

Download the latest driver at http://www.belkin.com/support

I am having difficulty setting up Wireless Protected Access (WPA) security on my Belkin Router for a home network.

- 1. From the "Security Mode" drop-down menu, select "WPA-PSK (no server)".
- 2. For "Encryption Technique", select "TKIP" or "AES". This setting will have to be identical on the clients that you set up.
- Enter your pre-shared key. This can be from eight to 63 characters and can be letters, numbers, symbols, or spaces. This same key must be used on all of the clients that you set up. For example, your PSK might be something like: "Smith family network key".
- **4.** Click "Apply Changes" to finish. You must now set all clients to match these settings.

I am having difficulty setting up Wireless Protected Access (WPA) security on a Belkin wireless client card for a home network.

Clients must use the same key that the Router uses. For instance, if the key is "Smith Family Network Key" in the Router, the clients must also use that same key.

- 1. Double-click the Signal Indicator icon to bring up the "Wireless Network" screen. The "Advanced" button will allow you to view and configure more options of your card.
- 2. Once the "Advanced" button is clicked, the Belkin Wireless Utility will appear. This Utility will allow you to manage all the advanced features of the Belkin Wireless Card.
- **3.** Under the "Wireless Network Properties" tab, select a network name from the "Available Networks" list and click the "Properties" button.
- 4. Under "Network Authentication", select "WPA-PSK (no server).
- 5. Type your WPA key in the "Network key" box.

Important: WPA-PSK is a mixture of numbers and letters from A-Z and 0-9. For WPA-PSK you can enter eight to 63 characters. This network key needs to match the key you assign to your Router.

6. Click "OK, then "Apply" to save the settings.

I am NOT using a Belkin client card for a home network and I am having difficulty setting up Wireless Protected Access (WPA) security.

If you are not using a Belkin Wireless Desktop or Wireless Notebook Network Card that is not equipped with WPA-enabled software, a file from Microsoft called "Windows XP Support Patch for Wireless Protected Access" is available for free download. Download the patch from Microsoft by searching the knowledge base for Windows XP WPA.

Note: The file that Microsoft has made available works only with Windows XP. Other operating systems are not supported at this time. You also need to ensure that the wireless card's manufacturer supports WPA and that you have downloaded and installed the latest driver from their support site.

Supported Operating Systems:

- Windows XP Professional
- Windows XP Home Edition
- 1. Under Windows XP, click "Start > Control Panel > Network Connections".
- 2. Right-clicking on the "Wireless Networks" tab will display the following screen. Ensure the "Use Windows to configure my wireless network settings" check box is checked.

| ineral | Waelezz Networks | Advanced | | |
|----------------------------|--|---|----------|---|
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3. Under the "Wireless Networks" tab, click the "Configure" button and you will see the following screen.

| Sectored areas (COLOR) | Dollin N Wirelass | |
|-------------------------|-----------------------|---|
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| Wireless network, key | | |
| This network sequires a | key for the following | |
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| Data encryption: | AES | ~ |
| Network key: | | |
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| Repirades Jad-procedi | 1.0 | |
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| | | |

4. For a home or small business user, select "WPA-PSK" under "Network Administration".

Note: Select WPA (with radius server) if you are using this computer to connect to a corporate network that supports an authentication server such as a radius server. Please consult your network administrator for further information.

- 5. Select "TKIP" or "AES" under "Date Encryption". This setting will have to be identical to the Router that you set up.
- **6.** Type in your encryption key in the "Network key" box.

Important: Enter your pre-shared key. This can be from eight to 63 characters and can be letters, numbers, or symbols. This same key must be used on all of the clients that you set up.

7. Click "OK" to apply settings.

What's the difference between 802.11g and draft 802.11n?

Currently there are three commonly used wireless networking standards, which transmit data at very different maximum speeds. Each is based on the designation for certifying network standards. The most common wireless networking standard, 802.11g, can transmit information up to 54Mbps; 802.11a also supports up to 54Mbps, but in the 5GHz frequency; and 802.11n draft specification can connect at up to 300Mbps. See the chart on the next page for more detailed information.

| Belkin | Wireless | Comparison | Chart |
|--------|----------|------------|-------|
| | | | |

| Wireless Technology | G (802.11g) | G Plus MIMO (802.119 with MIMO MRC) | N MIMO (draft 802.11n with MIMO) | N1 MIMO (draft 802.11n with MIMO) |
|------------------------|---|---|---|---|
| Speed/ Data Rate* | Up to 54Mbps* | Up to 54Mbps* | Up to 300Mbps* | Up to 300Mbps* |
| Frequency | Common household devices such as cordless phones and microwave ovens may interfere with the unlicensed band 2.4GHz | Common household devices such as cordless phones and microwave ovens may interfere with the unlicensed band 2.4GHz | Common household devices such as cordless phones and microwave ovens may interfere with the unlicensed band 2.4GHz | Common household devices such as cordless phones and microwave ovens may interfere with the unlicensed band 2.4GHz |
| Compatibility | Compatible with 802.11b/g | Compatible with 802.11b/g | Compatible with draft 802.11n** and 802.11b/g | Compatible with draft 802.11n** and 802.11b/g |
| Coverage* | Up to 400 ft.* | Up to 1,000 ft.* | Up to 1,200 ft.* | Up to 1,400 ft.* |
| Advantage | Common— widespread use for Internet sharing | Better coverage and consistent speed and range | Enhanced speed and coverage | Leading edge- best coverage and throughput |

*Distance and connection speeds will vary depending on your networking environment.

**This Router is compatible with products based on the same version of the draft 802.11n specifications, and may require a software upgrade for best results.

Technical Support

You can find technical support information at http://www.belkin.com/ networking or www.belkin.com through the tech support area. If you want to contact technical support by phone, please call:

| US: | 877-736-5771 310-898-1100 ext. 2263 |
|--------------|--|
| UK: | 0845 607 77 87 |
| Australia: | 1800 235 546 |
| New Zealand: | 0800 235 546 |
| Singapore: | 800 616 1790 |
| Europe: | www.belkin.com/support |

FCC Statement

DECLARATION OF CONFORMITY WITH FCC RULES FOR ELECTROMAGNETIC COMPATIBILITY

We, Belkin International, Inc., of 501 West Walnut Street, Compton, CA 90220, declare under our sole responsibility that the product,

F5D8233-4

to which this declaration relates,

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.

Caution : Exposure to Radio Frequency Radiation.

The radiated output power of this device is far below the FCC radio frequency exposure limits. Nevertheless, the device shall be used in such a manner that the potential for human contact normal operation is minimized.

FCC Radiation Exposure Statement

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

Federal Communications Commission Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the 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 and correct the interference by one or more of the following measures:

Information

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

FCC Caution

The FCC requires the user to be notified that any changes or modifications to this device that are not expressly approved by Belkin International, Inc., for compliance could void the user's authority to operate the equipment. This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

Canada-Industry Canada (IC)

The wireless radio of this device complies with RSS 210 Industry Canada. This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B conforme á la norme NMB-003 du Canada.

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

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 [2] dBi. Antenna having a high 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 (e.i.r.p.) is not more than that permitted for successful communication.

Europe-European Union Notice Radio products with the CE 0682 or CE alert marking comply with the R&TTE Directive (1995/5/EC) issued by the Commission of the European Community.

Compliance with this directive implies conformity to the following European Norms (in brackets are the equivalent international standards).

Information

- EN 60950 (IEC60950) Product Safety
- EN 300 328 Technical requirement for radio equipment
- ETS 300 826 General EMC requirements for radio equipment.

To determine the type of transmitter, check the identification label on your Belkin product.

Products with the CE marking comply with the EMC Directive (89/336/EEC) and the Low Voltage Directive (72/23/EEC) issued by the Commission of the European Community. Compliance with these directives implies conformity to the following European Norms (in brackets are the equivalent international standards).

- EN 55022 (CISPR 22) Electromagnetic Interference
- EN 55024 (IEC61000-4-2,3,4,5,6,8,11) Electromagnetic Immunity
- EN 61000-3-2 (IEC610000-3-2) Power Line Harmonics
- EN 61000-3-3 (IEC610000) Power Line Flicker
- EN 60950 (IEC60950) Product Safety

Products that contain the radio transmitter are labeled with CE 0682 or CE alert marking and may also carry the CE logo.

Belkin International, Inc., Limited Lifetime Product Warranty

What this warranty covers.

Belkin International, Inc. ("Belkin") warrants to the original purchaser of this Belkin product that the product shall be free of defects in design, assembly, material, or workmanship.

What the period of coverage is.

Belkin warrants the Belkin product for the lifetime of the product.

What will we do to correct problems?

Product Warranty.

Belkin will repair or replace, at its option, any defective product free of charge (except for shipping charges for the product).

What is not covered by this warranty?

All above warranties are null and void if the Belkin product is not provided to Belkin for inspection upon Belkin's request at the sole expense of the purchaser, or if Belkin determines that the Belkin product has been improperly installed, altered in any way, or tampered with. The Belkin Product Warranty does not protect against acts of God such as flood, earthquake, lightning, war, vandalism, theft, normal-use wear and tear, erosion, depletion, obsolescence, abuse, damage due to low voltage disturbances (i.e. brownouts or sags), non-authorized program, or system equipment modification or alteration.

How to get service.

To get service for your Belkin product you must take the following steps:

- Contact Belkin International, Inc., at 501 W. Walnut St., Compton CA 90220, Attn: Customer Service, or call (800)-223-5546, within 15 days of the Occurrence. Be prepared to provide the following information:
 - a. The part number of the Belkin product.
 - b. Where you purchased the product.
 - c. When you purchased the product.
 - d. Copy of original receipt.
- Your Belkin Customer Service Representative will then instruct you on how to forward your receipt and Belkin product and how to proceed with your claim.

Belkin reserves the right to review the damaged Belkin product. All costs of shipping the Belkin product to Belkin for inspection shall be borne solely by the purchaser. If Belkin determines, in its sole discretion, that it is impractical to ship the damaged equipment to Belkin, Belkin may designate, in its sole discretion, an equipment repair facility to inspect and estimate the cost to repair such equipment. The cost, if any, of shipping the equipment to and from such repair facility and of such estimate shall be borne solely by the purchaser. Damaged equipment must remain available for inspection until the claim is finalized. Whenever claims are settled, Belkin reserves the right to be subrogated under any existing insurance policies the purchaser may have.

How state law relates to the warranty.

THIS WARRANTY CONTAINS THE SOLE WARRANTY OF BELKIN. THERE ARE NO OTHER WARRANTIES, EXPRESSED OR, EXCEPT AS REQUIRED BY LAW, IMPLIED, INCLUDING THE IMPLIED WARRANTY OR CONDITION OF QUALITY, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND SUCH IMPLIED WARRANTIES, IF ANY, ARE LIMITED IN DURATION TO THE TERM OF THIS WARRANTY.

Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.

IN NO EVENT SHALL BELKIN BE LIABLE FOR INCIDENTAL, SPECIAL, DIRECT, INDIRECT, CONSEQUENTIAL OR MULTIPLE DAMAGES SUCH AS, BUT NOT LIMITED TO, LOST BUSINESS OR PROFITS ARISING OUT OF THE SALE OR USE OF ANY BELKIN PRODUCT, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

This warranty gives you specific legal rights, and you may also have other rights, which may vary from state to state. Some states do not allow the exclusion or limitation of incidental, consequential, or other damages, so the above limitations may not apply to you.

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N Wireless Router

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www.belkin.com

Belkin Tech Support

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