

WIRELESS G

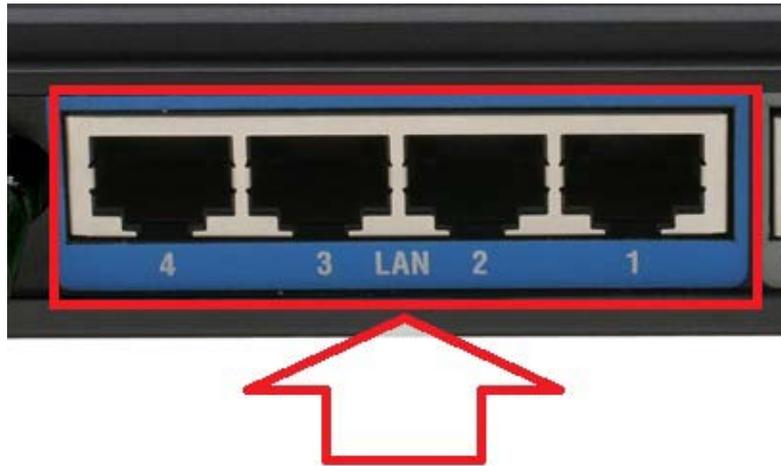
Applying WEP Encryption



This document will detail how to setup WEP Encryption on the DIR-300.

Wired Equivalent Privacy was once the bee's knee for encrypting a wireless network, now its old and outdated, its recommended that you change over to WPA-PSK and or above.

1. First you will need a computer/laptop to be connected to one of the LAN Ethernet ports.



NOTE: If you are going to change your Wireless Encryption, **DO NOT** perform this over a Wireless connection, connect your computer/laptop to a LAN Port.

2. Proceed to open an Internet Browser and login to the DIR-300 Web Configuration.

NOTE: Instructions are on the [Technical Support Knowledge Base](#) if you are unsure on how to login to the Web Configuration.

3. Click on **SETUP > Wireless Setup > Manual Wireless Connection Setup** button.

A screenshot of the DIR-300 Web Configuration interface. The top navigation bar includes 'DIR-300', 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. The 'SETUP' tab is selected and circled in red. The left sidebar contains links for 'Internet Setup', 'Tomzone Setup', 'Wireless Setup' (circled in red), 'LAN Setup', 'Time and Date', 'Parental Control', and 'Logout'. Below the sidebar is a 'Reboot' button. The main content area is titled 'WIRELESS CONNECTION' and contains the following text: 'There are 2 ways to setup your wireless connection. You can use the Wireless Connection Setup wizard or you can manually configure the connection. Please note that changes made on this section will also need to be duplicated to your wireless clients and PC.' Below this is the 'WIRELESS CONNECTION SETUP WIZARD' section, which includes a button labeled 'Wireless Connection Setup Wizard'. A note states: 'Note: Before launching the wizard, please make sure you have followed all steps outlined in the Quick Installation Guide included in the package.' The 'MANUAL WIRELESS CONNECTION OPTIONS' section includes a button labeled 'Manual Wireless Connection Setup' (circled in red). On the right side, there are 'Helpful Hints..' with two bullet points: '• If you are new to wireless networking and have never configured a wireless router before, click on **Wireless Connection Setup Wizard** and the router will guide you through a few simple steps to get your wireless network up and running.' and '• If you consider yourself an advanced user and have configured a wireless router before, click **Manual Wireless Connection Setup** to input all the settings manually.'

4. Once you have access to the Wireless Setup page, there are only a couple of adjustments needed to be made, please see below:

WIRELESS NETWORK SETTINGS	
Enable Wireless :	<input checked="" type="checkbox"/>
Wireless Network Name :	<input type="text" value="home_network"/> (Also called the SSID)
Enable Auto Channel Selection :	<input type="checkbox"/>
Wireless Channel :	<input type="text" value="6"/>
Transmission Rate :	<input type="text" value="Best (automatic)"/> (Mbit/s)
WMM Enable :	<input type="checkbox"/> (Wireless QoS)
Enable Hidden Wireless :	<input type="checkbox"/> (Also called the SSID Broadcast)

WIRELESS SECURITY MODE	
Security Mode :	<input type="text" value="Enable WEP Wireless Security (basic)"/>

WEP	
<p>WEP is the wireless encryption standard. To use it you must enter the same key(s) into the router and the wireless stations. For 64 bit keys you must enter 10 hex digits into each key box. For 128 bit keys you must enter 26 hex digits into each key box. A hex digit is either a number from 0 to 9 or a letter from A to F. For the most secure use of WEP set the authentication type to "Shared Key" when WEP is enabled.</p> <p>You may also enter any text string into a WEP key box, in which case it will be converted into a hexadecimal key using the ASCII values of the characters. A maximum of 5 text characters can be entered for 64 bit keys, and a maximum of 13 characters for 128 bit keys.</p>	
Authentication :	<input type="text" value="Open"/>
WEP Encryption :	<input type="text" value="64Bit"/>
Default WEP Key :	<input type="text" value="WEP Key 1"/>
WEP Key :	<input type="text" value="0987654321"/> (5 ASCII or 10 HEX)

It is recommended to change the Wireless Network Name (SSID) to a name of your liking, in this example it is called "home_network". Enable Auto Channel Selection can be enabled however it is not mandatory. The Wireless Channel can be changed, Channel's 1, 6 and 11 are non overlapping and are recommended.

Under the WIRELESS SECURITY MODE heading select from the dropdown "Enable WEP Wireless Security (basic)".

Under the WEP heading you may select a higher WEP Encryption to use e.g. 128Bit (this means your WEP Key will be longer and considered harder to guess). Now under the WEP Key you are to enter in either 5 ASCII characters or 10 Hexadecimal characters. The WEP Key is considered to be your Wireless Password. **REMEMBER IT!**

5. Now proceed to click on the Save Settings button.

6. WEP Encryption is now configured.

IMPORTANT:

If you decide to change your Wireless Encryption password, you will need to remove your existing Wireless Profile or edit it to reflect the new changes.

Please remember to ensure your DIR-300 has the most current firmware version applied. To apply this firmware please refer to the Technical Support Knowledge Base.