

The MTU (Maximum Transmission Unit) value represents the size in bytes of the largest packet that the connection will use to transmit. If set to a non-zero number, only packets of the specified size or smaller will be transmitted. Larger packets are broken up into multiple Ethernet frames. It is recommended to leave this setting on **automatic**.

Once you have finished editing the wireless connection, click the **Save** button and **NetworkManager** will immediately save your customized configuration. Given a correct configuration, you can successfully connect to your the modified connection by selecting it from the **NetworkManager** Notification Area applet.

Select **Connect automatically** to cause **NetworkManager** to auto-connect to the connection whenever **NetworkManager** detects that it is available. Unselect the checkbox if you do not want **NetworkManager** to connect automatically. If the box is unchecked, you will have to select that connection manually in the **NetworkManager** applet's initial menu to cause it to connect.

5.7. Establishing a Wireless Hotspot

You can use **NetworkManager** to share a network connection over Wi-Fi provided that your hardware supports Access Point (AP) mode. Issue the following command to check your Wi-Fi hardware's capabilities:

```
iw list | grep -a10 "Supported interface modes"
```

You should see something similar to the following:

```
Supported interface modes:
* IBSS
* managed
* AP
* AP/VLAN
* monitor
* mesh point
software interface modes (can always be added):
* AP/VLAN
* monitor
interface combinations are not supported
```

If you see the letters AP then your device can operate in access point mode to provide a Hotspot or *Internet Connection Sharing* (ICS) service.

To establish a Hotspot, click **NetworkManager**'s applet icon and then click **Network Settings**. The **Network** window appears. Select the **Wireless** menu entry and then click the **Use as Hotspot** button to activate Hotspot mode.

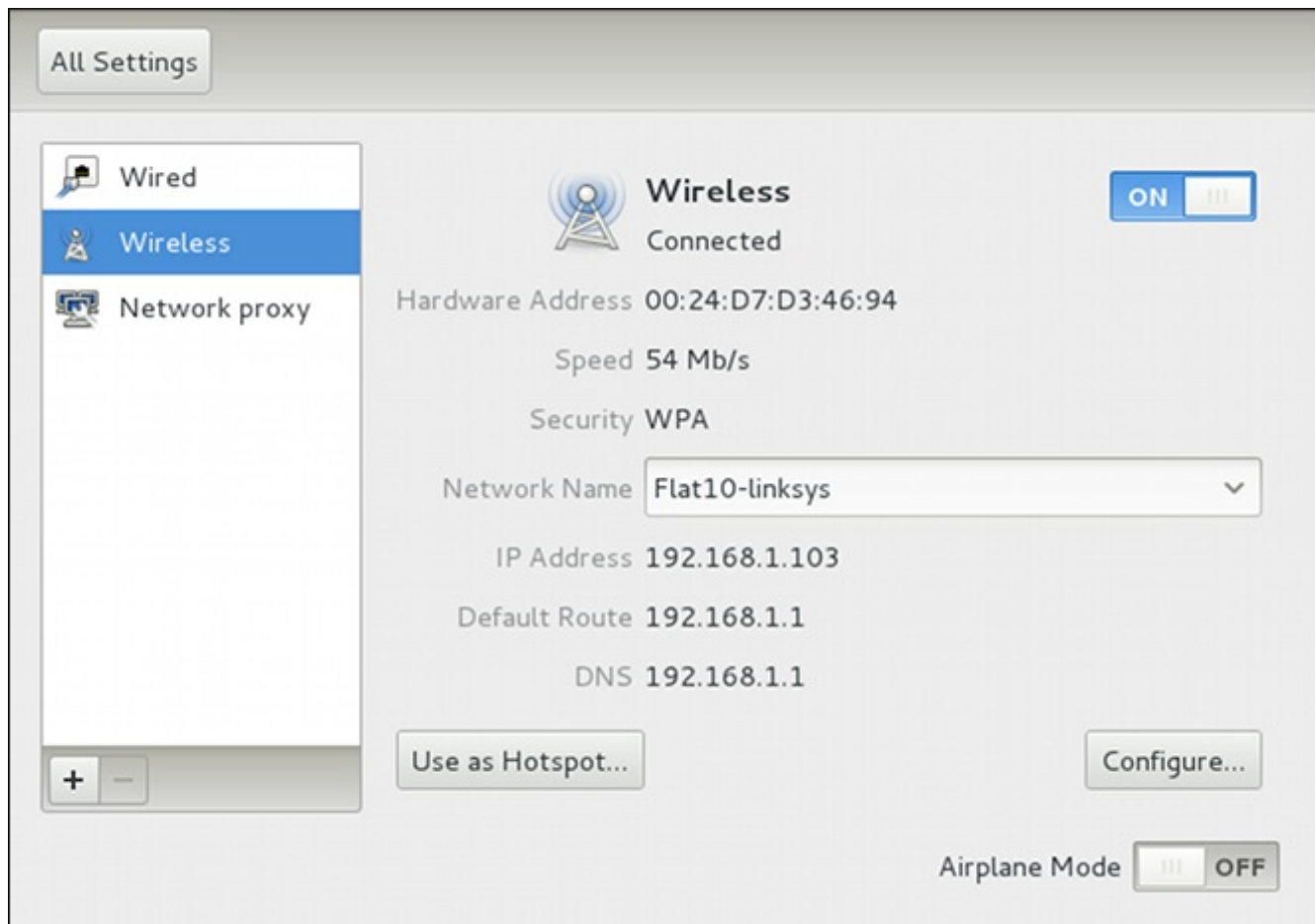


Figure 5.5. Establishing a Wireless Hotspot

If you would like to change the SSID or password click the **Configure** button to change the default settings. The editing a wireless connection window appears.

The screenshot shows the 'Hotspot' configuration window in NetworkManager. At the top, the 'Connection name' is 'Hotspot'. Below it is an unchecked checkbox for 'Connect automatically'. There are four tabs: 'Wireless' (selected), 'IPv4 Settings', 'IPv6 Settings', and 'Wireless Security'. The 'Wireless' tab contains the following fields: 'SSID' (Hotspot), 'Mode' (Ad-hoc), 'Band' (Automatic), 'Channel' (default), 'BSSID' (empty), 'Device MAC address' (00:24:D7:D3:46:94 (wlan0)), 'Cloned MAC address' (empty), and 'MTU' (automatic bytes). At the bottom left is a checked checkbox for 'Available to all users'. At the bottom right are 'Cancel' and 'Save...' buttons.

Connection name: Hotspot

☐ Connect automatically

Wireless | IPv4 Settings | IPv6 Settings | Wireless Security

SSID: Hotspot

Mode: Ad-hoc

Band: Automatic

Channel: default

BSSID:

Device MAC address: 00:24:D7:D3:46:94 (wlan0)

Cloned MAC address:

MTU: automatic bytes

☒ Available to all users

Cancel Save...

Figure 5.6. Configuring a Wireless Hotspot

You can further configure an existing connection by selecting it in the **Network** window and clicking **Configure** to return to the **Editing** dialog.