

JMU Wireless Network

Configuration for Fedora Linux 11 through 15 using the GNOME desktop environment

Screenshots in this guide were created with
Fedora 15 using GNOME 3.0.1 (in fallback mode).

K Desktop Environment (KDE) in Fedora 11 and 12 also uses the
Network Manager applet to configure wireless networks. Please
see the Fedora Linux (KDE) document for configuration for
newer versions using KDE.

This guide does not cover installing drivers or firmware for wireless network adapters.

Please note that Linux is not supported by the Computing HelpDesk and
that this document is provided as a self-help reference only.

Connecting for the first time

To join the wireless network, first click on the **Network Manager** icon in the
Notification Area. A list of available wireless networks will appear.

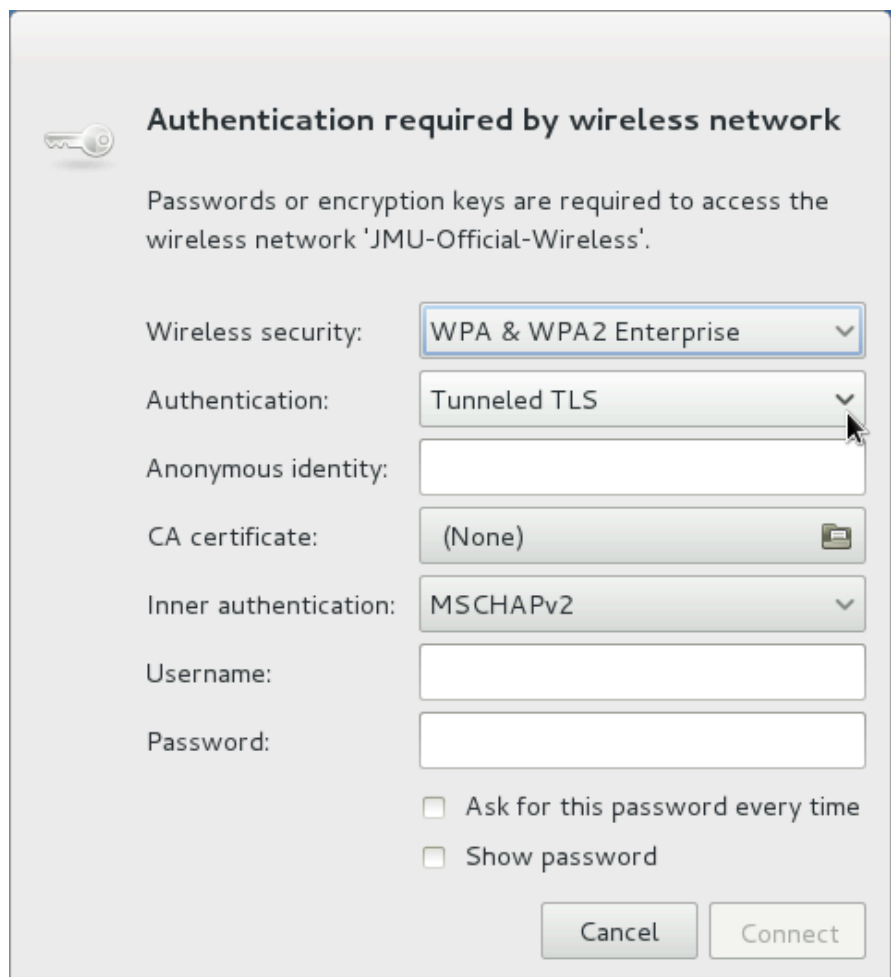


From the list of wireless networks, select **JMU-Official-Wireless**.



You will then be prompted to choose security settings for the network and enter your login credentials.

First click the drop-down list next to **Authentication**.



From the drop-down list, select **Protected EAP (PEAP)**.

Authentication required by wireless network

Passwords or encryption keys are required to access the wireless network 'JMU-Official-Wireless'

Wireless security: **Protected EAP (PEAP)**

Authentication: Tunneled TLS

Anonymous identity: (None)

CA certificate: (None)

Inner authentication: MSCHAPv2

Username:

Password:

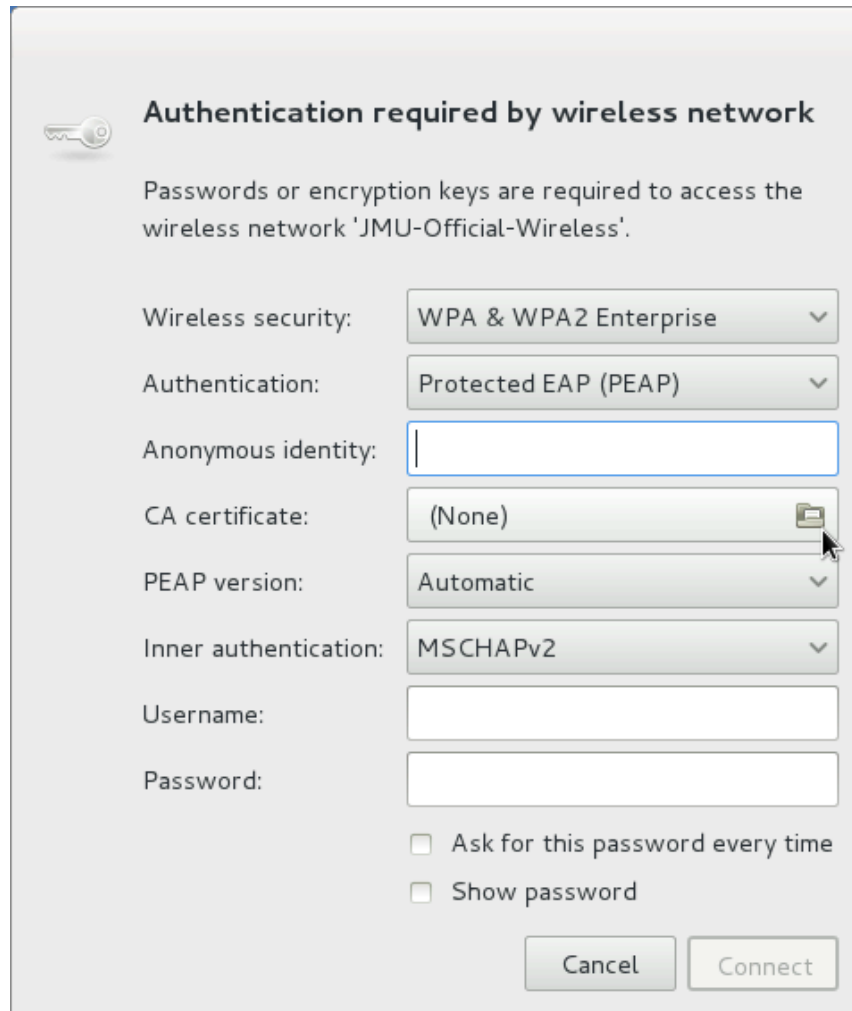
Ask for this password every time


Show password

Cancel Connect

Then click on the file browser button next to **CA certificate**.

It is possible to choose a **PEAP version**, enter your e-ID and password here, and continue without specifying the **CA certificate**, but it is not recommended.




 **Authentication required by wireless network**

Passwords or encryption keys are required to access the wireless network 'JMU-Official-Wireless'.

Wireless security: WPA & WPA2 Enterprise ▾

Authentication: Protected EAP (PEAP) ▾

Anonymous identity:

CA certificate: (None) 

PEAP version: Automatic ▾

Inner authentication: MSCHAPv2 ▾

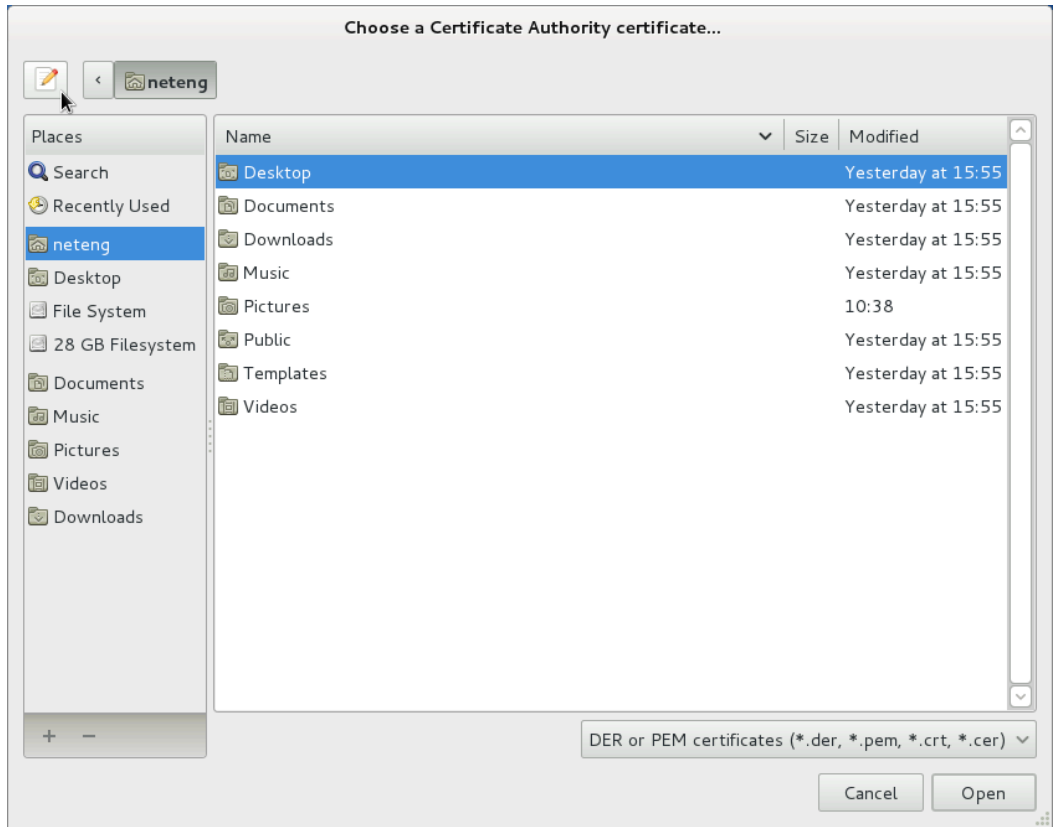
Username:

Password:

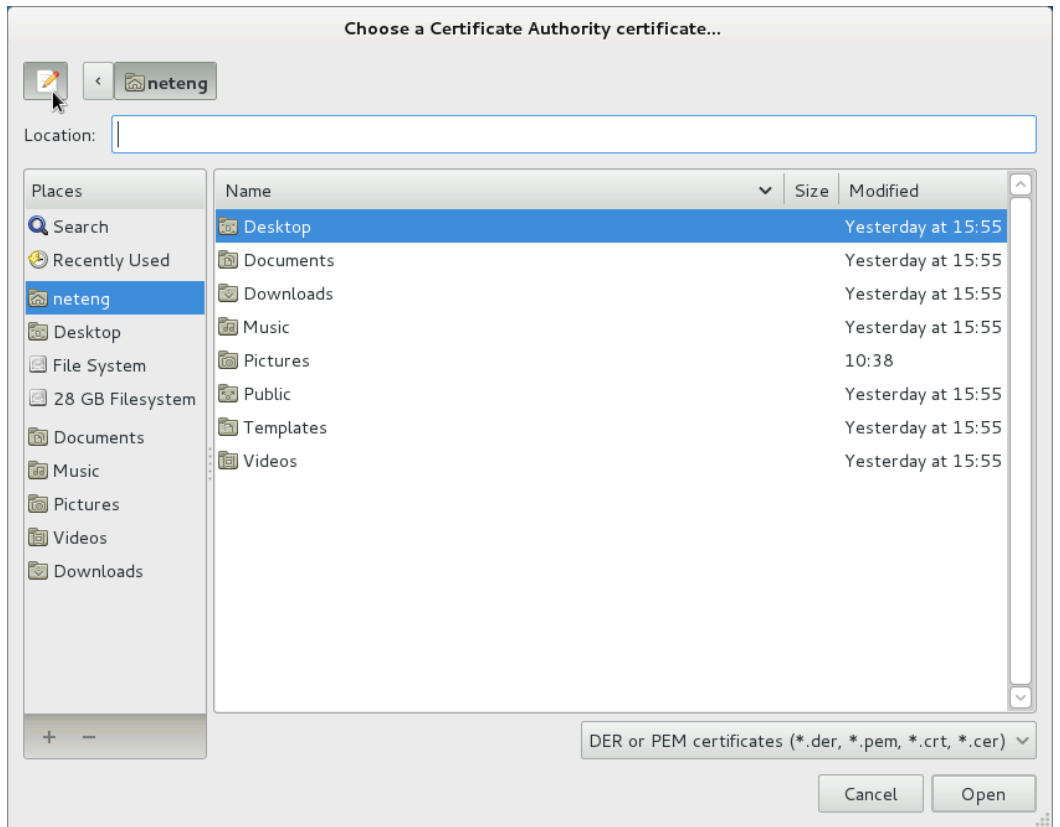
Ask for this password every time

Show password

Click on the top-left button with the pen & paper icon in the new **Choose a Certificate Authority certificate** window.

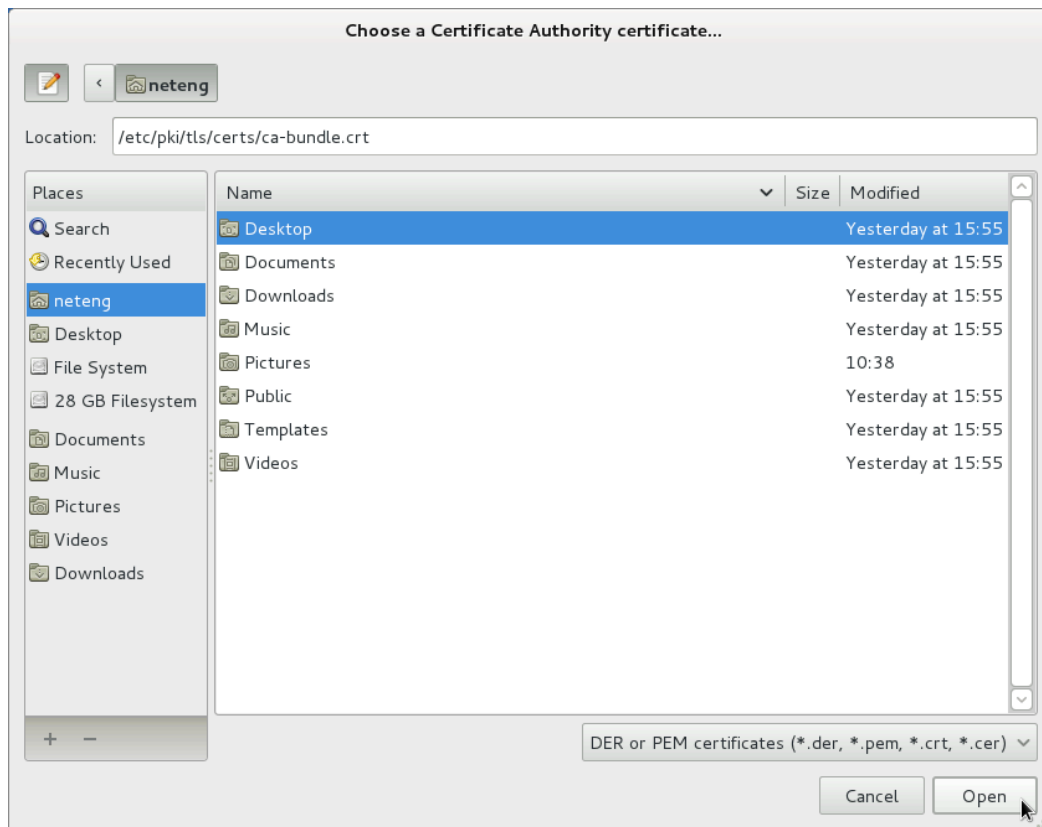


A text-entry area labeled **Location** will appear.



Enter the following into the **Location** bar then click the **Open** button at the bottom.

`/etc/pki/tls/certs/ca-bundle.crt`

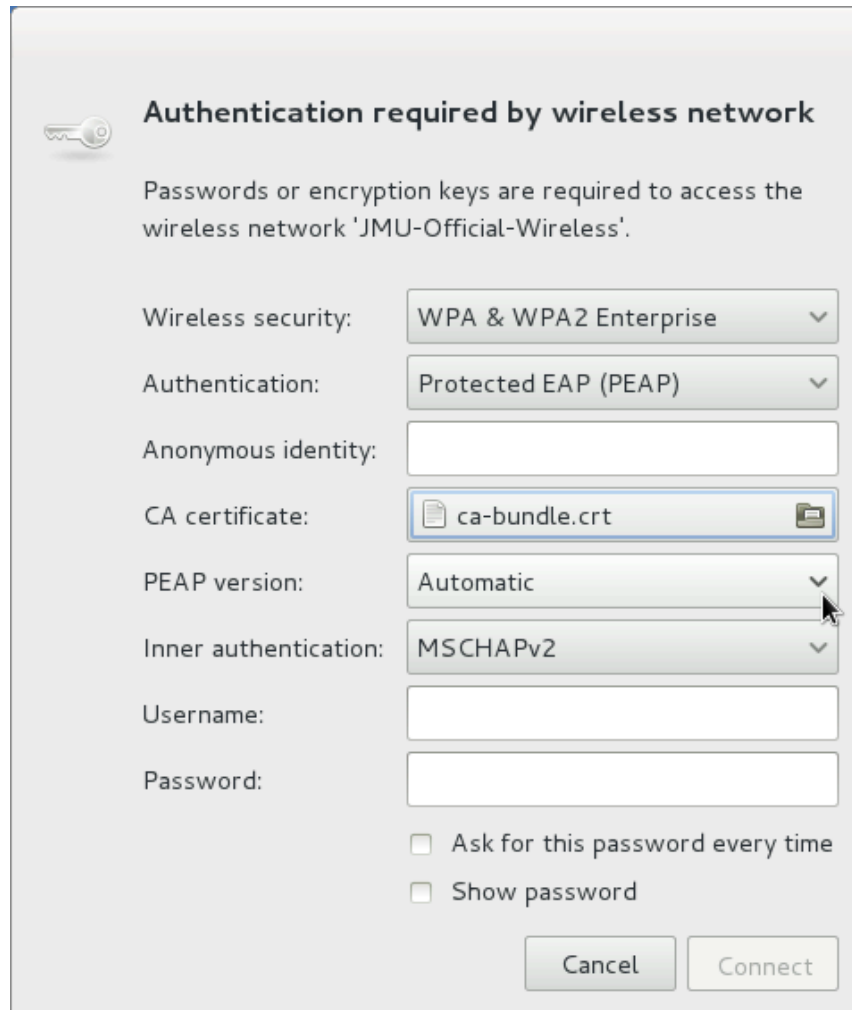



It is also possible to browse to the certificate's location beginning with **File System** in the **Places** list on the left.

The certificate may be in another location if you are using a different Linux distribution, such as Ubuntu.

This will return you to the **Authentication required by wireless network** window. In Fedora 14 and earlier versions, this window is titled **Wireless Network Authentication Required**.

To prevent any problems connecting to the wireless network, the **PEAP version** must be set manually. Click the drop-down list next to **PEAP version** to change it.




 **Authentication required by wireless network**

Passwords or encryption keys are required to access the wireless network 'JMU-Official-Wireless'.

Wireless security: WPA & WPA2 Enterprise ▾

Authentication: Protected EAP (PEAP) ▾

Anonymous identity:

CA certificate: 

PEAP version: Automatic ▾

Inner authentication: MSCHAPv2 ▾


Username:

Password:

Ask for this password every time

Show password

Select **Version 0** from the drop-down list.



Authentication required by wireless network

Passwords or encryption keys are required to access the wireless network 'JMU-Official-Wireless'.

Wireless security: WPA & WPA2 Enterprise

Authentication: Protected EAP (PEAP)

Anonymous identity:

CA certificate: ca-bundle.crt

PEAP version: Automatic

Inner authentication: **Version 0**

Username: Version 1

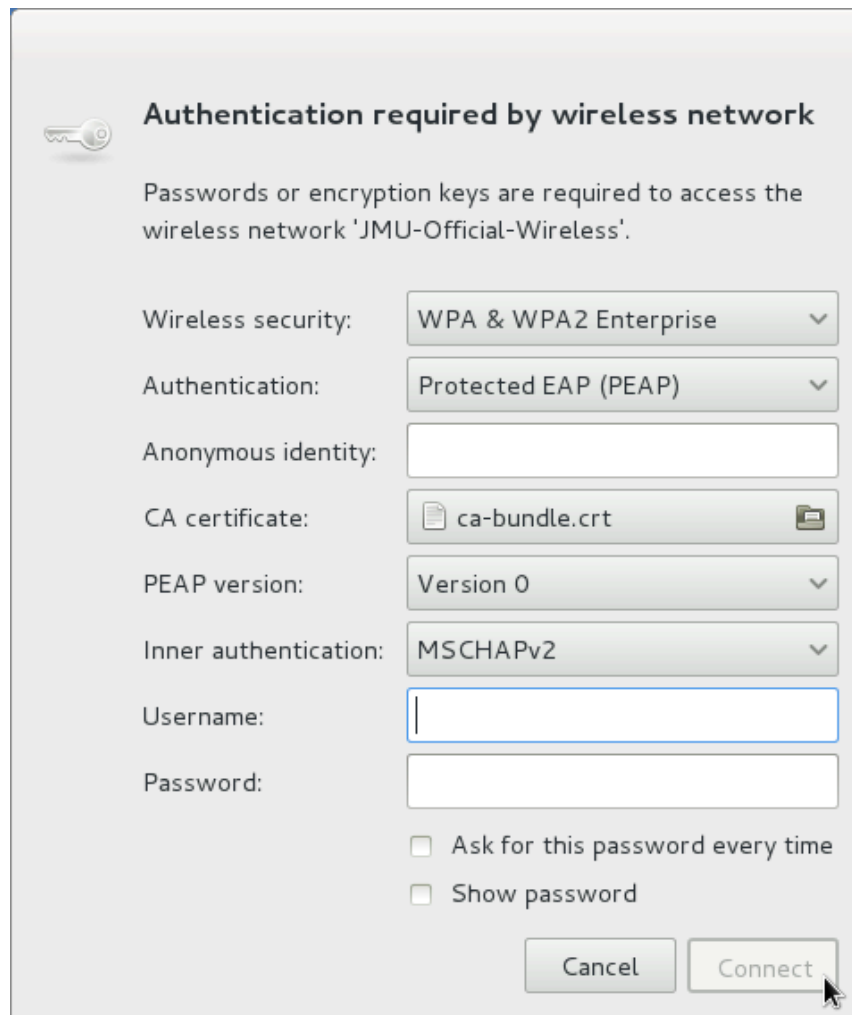
Password:

Ask for this password every time

Show password

Cancel Connect

Enter your e-ID and password, then click **Connect**.



Authentication required by wireless network

Passwords or encryption keys are required to access the wireless network 'JMU-Official-Wireless'.

Wireless security: WPA & WPA2 Enterprise

Authentication: Protected EAP (PEAP)

Anonymous identity:

CA certificate: ca-bundle.crt

PEAP version: Version 0

Inner authentication: MSCHAPv2

Username:

Password:

Ask for this password every time

Show password

Cancel Connect

The **Network Manager** icon will change to look like the one below on the far left while your computer connects to the wireless network.

Due to Fedora keeping all of its Certificate Authority certificates in a single file, it may take several seconds for your computer to authenticate to the wireless network. Multiple connection attempts may be necessary in some cases when using Fedora 11; Fedora 12 seems to have fixed this problem.



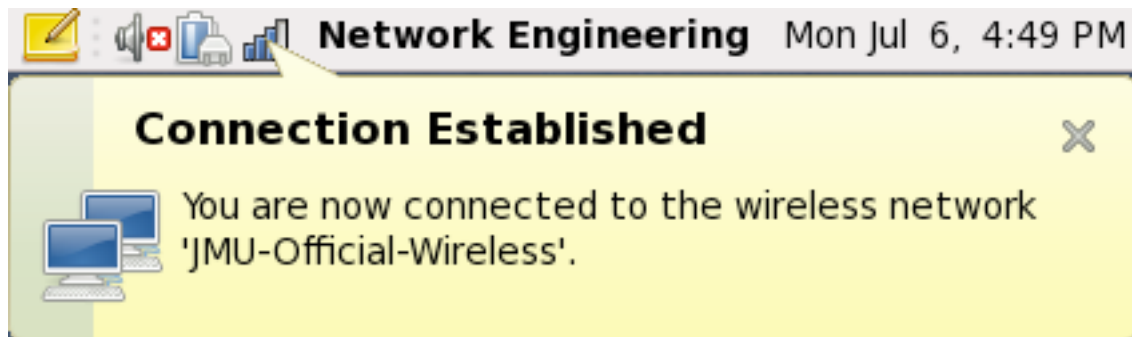
It may take several seconds for your computer to acquire an IP address, during which time the **Network Manager** icon will change to look like the one below on the far left.



After successfully connecting to the wireless network and getting an IP address, the **Network Manager** icon will change to look like the one below on the left, with the blue bars indicating how strong the wireless signal is. This may vary depending on your location.

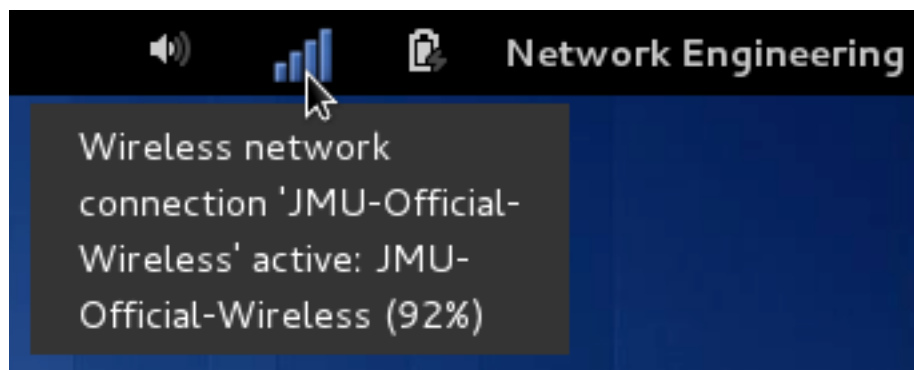


Fedora 11 users may also see a **Connection Established** message below the **Notification Area** after successfully connecting.



Fedora 11 (GNOME 2.26)

The wireless network connection can be verified by holding the cursor over the **Network Manager** icon without clicking.



Reconnecting

If your Fedora computer has previously has connected to the **JMU-Official-Wireless** network, it will automatically attempt to join it again after logging in, waking from being suspended, or being rebooted.

The **Network Manager** icon will look like the one below on the left, with the blue bars indicating how strong the wireless signal is. This may vary depending on your location.

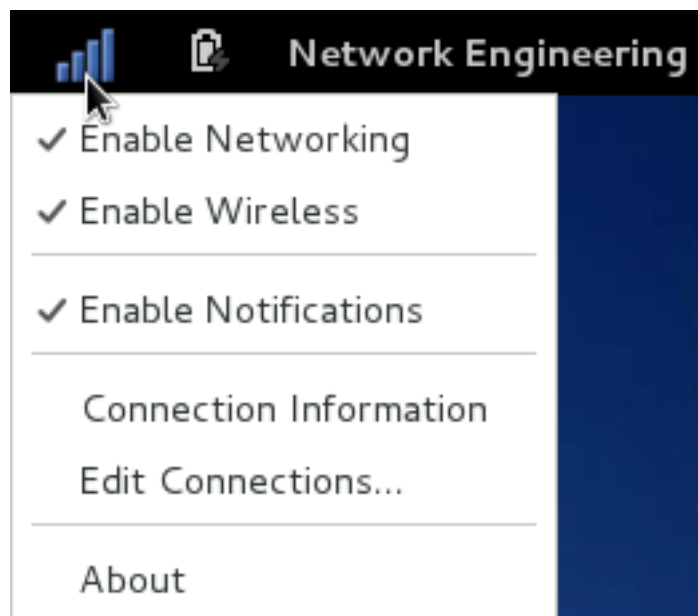


You may also see a **Connection Established** message below the **Notification Area** after successfully connecting.

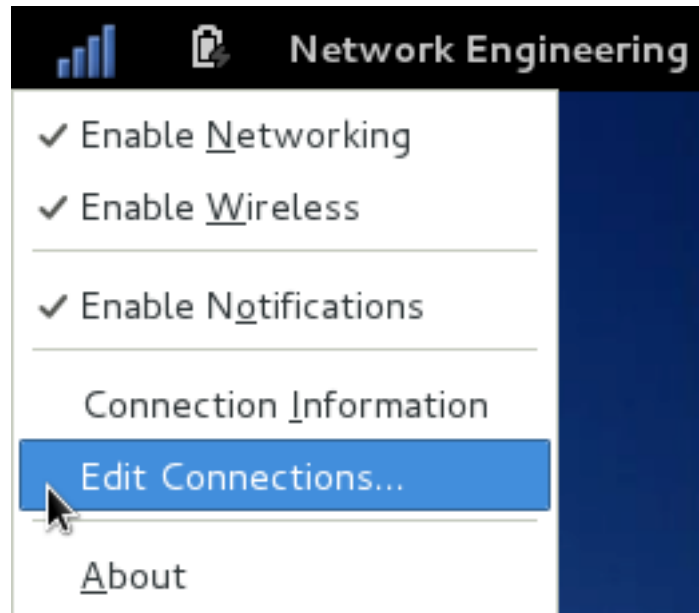
Remove connection settings

Should you need to change the username used to log in to the wireless network or disconnect without connecting to another network, an easy way is to remove the network settings.

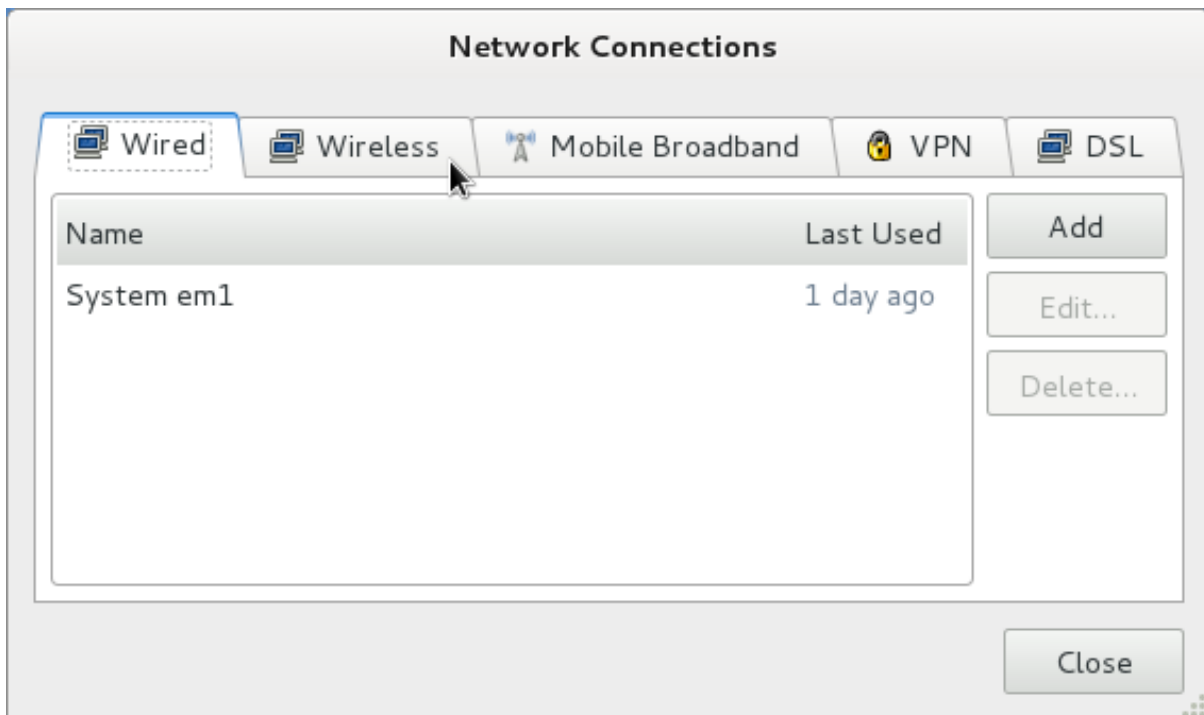
Right-click on the **Network Manager** icon in the **Notification Area** and a menu will appear.



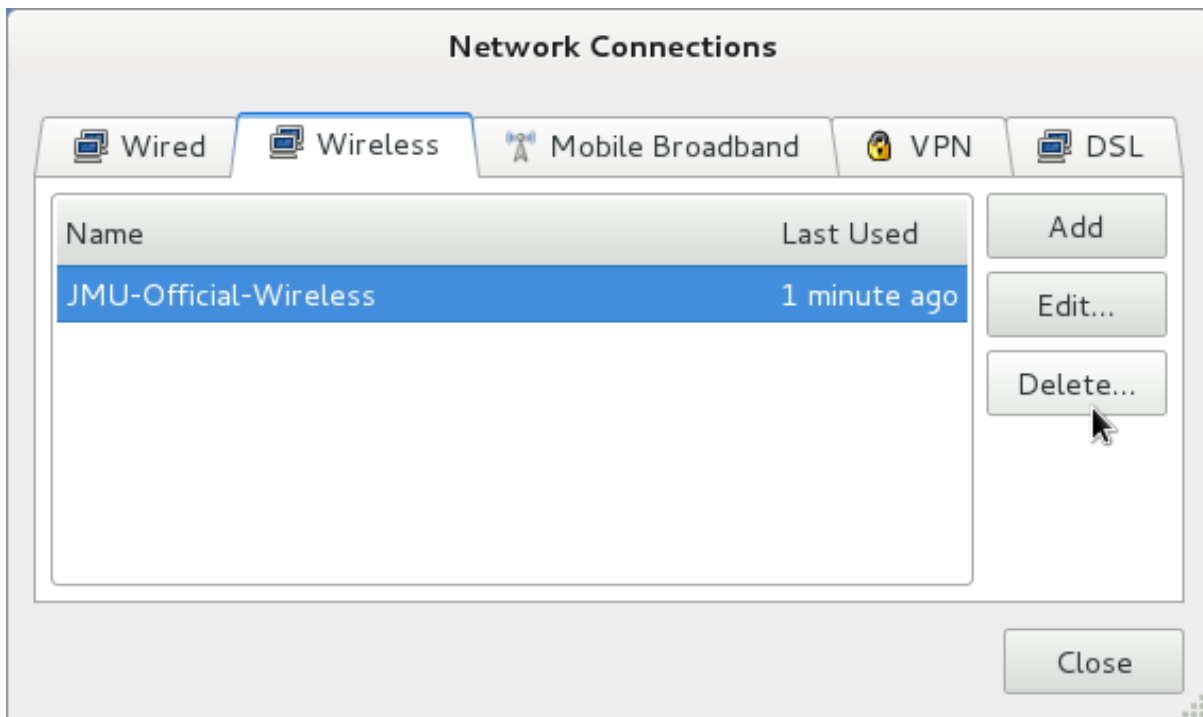
Select **Edit Connections...** from the right-click menu.



The **Network Connections** window will appear and have the **Wired** tab selected. Click on the **Wireless** tab.



Select **JMU-Official-Wireless** and click the **Delete** button on the right.



A confirmation will be displayed to remove the network settings and stop automatically joining it. Click on **Delete** to finish.

