

Connecting to Rovernet 2.0 with Ubuntu 8.10 (Intrepid Ibex)

Rovernet 2.0 is a Michigan Tech WPA Enterprise Solution that allows for greater flexibility and security when accessing the campus wireless network. The “**MichiganTech**” (SSID) is only accessible via WPA Enterprise (PEAP) authentication. Once authenticated, the traffic is encrypted. To obtain access to this encrypted network, wireless clients will be required to configure their devices for WPA/WPA2 authentication.

Before you begin this procedure, you need to determine whether your computer supports WPA and/or WPA2.

Minimum System Requirements

- Be within the “**MichiganTech**” SSID wireless coverage areas.
- Be a current Michigan Tech student, faculty, or staff member.
- Have a valid ISO User Name and Password.
- Have installed and configured an 802.11b or 802.11g compatible wireless network card and drivers to support WPA or WPA2 encryption.

Note: Devices that have a Broadcom Wireless Card or generic equivalent and are using Ubuntu Intrepid Ibex (8.10) will need to download the updated driver and patch directly from the Broadcom Website (http://www.broadcom.com/support/802.11/linux_sta.php).

For more information, see: <https://bugs.launchpad.net/ubuntu/hardy/+source/linux-restricted-modules/+bug/292450>

Obtaining the GlobalSign Certificates of Authority

There are two certificates that need to be downloaded and then concatenated into one file, which will be used to feed the program.

1. Download the GlobalSign Root Certificate
 - a) Open a web browser and navigate to <http://www.globalsign.com/support/root-globalsign.html> to obtain a copy of the root certificate.
 - b) Copy and paste ALL the characters within the box (including the ----BEGIN CERTIFICATE---- and the ----END CERTIFICATE----) into a text editor.
 - c) Save the file as root.cert.

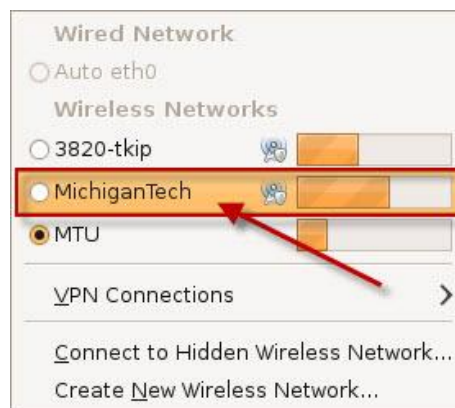
2. Download the GlobalSign Intermediate Certificate
 - a) Open a web browser and navigate to <https://www.globalsign.com/support/root-organizationsssl.html> to obtain a copy of the intermediate certificate.
 - b) Copy and paste ALL the characters within the box (including the ----BEGIN CERTIFICATE---- and the ----END CERTIFICATE----) into a text editor.
 - c) Save the file as intermediate.cert.
3. Concatenate the two certificates into one file ('cat root.cert intermediate.cert > chain.cert'). Save the chain.cert file in a place on your computer where you will be able to find it later.

Adding and Configuring the "MichiganTech" SSID with Ubuntu 8.10

1. Click on the **Network Manager** Icon on the Panel.



2. Select the **MichiganTech** network.



The Network Configuration Dialog will appear requesting authentication details for the network.

3. Complete the network configuration authentication details as follows:
 - a. Change the Authentication to **Protected EAP (PEAP)**.

- b. Change the PEAP version to **Version 0**.

- c. Enter your **ISO User name** and **Password**.

- d. Tick **Show Password** to show the password you type to ensure it is correct.



- e. Choose the **chain.cert** file that you previously created.



- f. Click the **Connect** Button.

The **Network Manager Icon** will change to a revolving globe while it is attempting to connect.



The **Network Manager Icon** will change to a signal strength indicator once the computer connects.

