

Connecting to Rovernet 2.0 with Ubuntu 8.04 (Hardy Heron)

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.

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-organizationsl.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 8.04

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.

Wireless Network Key Required

Passphrase Required by Wireless Network

A passphrase or encryption key is required to access the wireless network 'MichiganTech'.

Wireless Security: WPA Enterprise

EAP Method: PEAP

Key Type: Automatic (Default)

Phase2 Type: None (Default)

Identity: username

Password: ●●●●●●●●●●

Anonymous Identity:

Client Certificate File: (None)

CA Certificate File: Equipax_Secure_Certifi...

Private Key File: (None)

Private Key Password:

Show passwords

3. Complete the network configuration authentication details as follows:
 - a. Select **WPA Enterprise** from the **Wireless Security** dropdown list.
 - b. Select **PEAP** for the **EAP Method**, if not already selected.
 - c. Enter your **ISO User name** and **Password**.
 - d. Choose the **chain.cert** file that you previously created.
 - e. Click the **Connect** Button.