Connecting to the Rovernet WPA2 Secured Wireless Network with Windows 7

Configuring your wireless device to use WPA2 takes a few minutes. You will, however, need to meet the following system requirements in order to connect to the MichiganTech WPA2 Secured Wireless Network. Before you begin this procedure, you need to determine whether your computer supports WPA 2.

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 Windows 7.
- Have installed all critical updates and patches to your operating system.
- Have installed and configured an 802.11b or 802.11g compatible wireless network card and drivers to support WPA2 encryption.

Adding and Configuring the “MichiganTech” SSID with Windows 7

**Connect Automatically:**

1. Left-click the **Wireless Network Status** icon on the System Tray.

2. Choose the **MichiganTech** SSID and make sure the Connect Automatically box is checked. This will ensure that you will be automatically connected the next time you are in the range of **MichiganTech**.
You should now be connecting to the **MichiganTech** SSID. This could take a few minutes depending on your computer’s speed and your distance to a **MichiganTech** access point.

3. Enter your **ISO User name** and **Password** in the **Network Authentication** dialog box.

4. Click **OK**.

Once you have entered your login information, you will be shown **Windows Security Alert** stating “the connection attempt could not be completed”. This message indicates that you need to approve a new connection certificate.

5. Click **Connect** to accept the Certificate and to connect to the **MichiganTech** SSID.

Windows 7 will most often allow you to automatically connect to **MichiganTech** as in the instructions above. However, in some cases, you may need to manually configure your connection to the **MichiganTech** SSID.

If you get screen stating “**Windows was unable to connect to MichiganTech**”, you will need to close the screen and perform the Manual Connection steps as described below.
Manual connection:

1. Right-click the **Wireless Network Status** icon on the System Tray and choose **Open Network and Sharing Center**.

   ![Troubleshoot problems](image1.png)

   The **Network and Sharing Center** screen is displayed.

2. Click on the **Manage wireless networks** link in the Network and Sharing Center to bring up the list of wireless networks you have connected to.

   ![Manage wireless networks](image2.png)

3. Look for any networks named **MichiganTech** and remove it from the list.

4. Once it has been removed, click **Add** to create a new network connection.
5. Choose **Manually create a network profile**

![Manually connect to a wireless network](image)

6. Enter the MichiganTech information as follows:

- **Network name**: MichiganTech
- **Security type**: WPA2-Enterprise
- **Encryption type**: AES
- **Security Key**: Leave this field blank
- Check the **Start this connection automatically** box. This will ensure that you will be automatically connected the next time you are in the range of MichiganTech.
7. Click Next then select **Change connection settings**

![Change connection settings window]

8. Click the **Security** tab.

![Security tab settings]

- Uncheck the **Remember my credentials for this connection...** box
- Make sure **Protected EAP (PEAP)** is selected for the **network authentication method** dropdown list
- Click the **Settings** button which will bring up the Protected EAP Properties window
9. Configure the Protected EAP Properties window:
   a. Check Validate server certificate.
   b. Check Connect to these servers and type in www.login.mtu.edu in the box provided
   c. Check GlobalSign Root CA
   d. Check Enable Fast Reconnect
   e. Choose Secured password (EAP-MSCHAP v2) as the Authentication Method.

![Protected EAP Properties window]

   f. Click on the Configure button.

10. On the MSCHAPv2 Properties window:

   a. Uncheck “Automatically use my Windows logon name and password”.

![EAP MSCHAPv2 Properties window]

   This is very important! If this box remains checked, you will not be able to connect to the network.

   b. Click OK on each open window to save your changes and to return to the MichiganTech Wireless Network Properties screen.
11. Click the **Advanced settings** button on the **MichiganTech Wireless network Properties** screen.

![Advanced settings button](image)

12. On the Advanced settings screen, check the **Enable single sign on for this network** and click ok to save your changes and close the window.

![Advanced settings screen](image)
Entering your Credentials

1. A notice similar to the following will appear in your system tray. Click inside the Additional information… bubble to provide additional information.

   ![Additional information](image)

2. Enter your ISO User name and Password in the Windows Security Network Authentication window and click OK.

   ![Windows Security](image)

When you log into the “MichiganTech” Secured Wireless Network, the Server Certificate is downloaded automatically. If you have not previously logged into the “MichiganTech” Network, you may be shown a Windows Security Alert stating “the connection attempt could not be completed”. This message indicates that you need to approve a new connection certificate. If you receive this Windows Security Alert, simply click Connect to connect to the MichiganTech SSID.

   ![Windows Security Alert](image)