Connecting to the Rovernet WPA2 Secured Wireless Network with Windows XP

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 WPA2.

If your wireless adapter does not support WPA2, you will not see these authentication options when you reach Step 5 of the instructions for Adding and Configuring the “MichiganTech” Secured Wireless Network. If this is the case, you will need to update your wireless adapter.

If your wireless adapter was manufactured in 2003 or later, you should be able to see the WPA authentication option listed. If WPA appears in your list of authentication options, but WPA2 is missing from the list, you may be able to get WPA2 support by updating the drivers associated with your existing wireless adapter.

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 XP with Service Pack 3; or have installed Windows XP with Service Pack 2 along with the Wi-Fi Protected Access 2 (WPA2)/ Wireless Provisioning Services Information Element Update. (See http://support.microsoft.com/kb/917021.)
- 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 XP

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

2. Click **View Available Wireless Networks** to open the **Wireless Network Connection** window.

   If you do not see the Wireless Network Status icon in your System Tray, you can open the Network Connections window by performing one of the following methods:

   - If you are using the XP Menu: Click **Start > Connect to > Wireless Network Connection > View Wireless Networks**
   - If you are using the Classic Menu: Click **Start > Settings > Network Connections > Wireless Network Connection > View Wireless Networks**

   The **Wireless Network Connection** window is displayed.

3. Click on **Change advanced settings** to open the **Wireless Network Connection Properties** Window.
4. Click on the **Wireless Networks** tab.

5. Check the **Use Windows to configure my wireless network settings**, if it is unchecked.
6. Perform one of the following:
   - If MichiganTech is listed in the Preferred networks list, click on this network name, click Properties, and then skip to step 7.
   - If MichiganTech is not listed in the Preferred networks list, click Add.

7. Fill in the Network Properties for the “MichiganTech” Secured Wireless Network:

   ![Image of Network Properties window]

   a. Enter “MichiganTech” for the Network Name (SSID).
   b. Check “Connect even if this network is not broadcasting”, if unchecked.
   c. Choose WPA2 from the dropdown list for the Network Authentication.

   Note: WPA2 is the latest version of the Wi-Fi Protected Access (WPA) security protocol. It provides a higher level of security than WPA. If WPA2 is not listed as an option, you can select WPA or you can choose to update the driver for your wireless network card. If neither WPA nor WPA2 are listed as options, you may need to consider upgrading your wireless adapter.

d. Choose AES from the dropdown list for the Data Encryption.

   Note: The Network Authentication and Data Encryption settings are determined by the hardware in your machine and by how up-to-date your operating system is. If your system is not able to authenticate using WPA2-AES, then you may want to try WPA2-TKIP or WPA-TKIP. You also may want to consider updating your wireless adapter and/or drivers.
8. Click on the **Authentication** tab.
   a. Ensure that **Enable IEEE 802.1x authentication for this network** is selected. (It will be grayed out).
   b. Configure the authentication as follows:
      i. Select **Protected EAP (PEAP)** from the **EAP type** dropdown list.
      ii. Uncheck the “**Authenticate as computer when computer information is available**”, if it is checked.
      iii. Uncheck the “**Authenticate as guest when user or computer information is unavailable**”, if it is checked.
   c. Click on the **Properties** button.
9. Configure the **Protected EAP Properties** window:
   a. Check **Validate server certificate**.
   b. Choose **Secured password (EAP-MSCHAP v2)** as the **Authentication Method**.

![Protected EAP Properties window]

   c. 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 close the windows.
Entering your Credentials
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 will receive a warning message about selecting the certificate.

1. Click inside the Wireless Network Connection bubble to select a certificate or other credentials for connection to the network.

2. Enter your ISO User name and Password in the login window.

Note: You do not need to enter anything into the Logon domain box unless otherwise instructed by your department and/or system administrator.

3. Click inside the Wireless Network Connection bubble to process your logon information for the network.
Validating the Server Certificate

1. Review the information contained in the Validate Server Certificate dialog box.

2. Click the View Server Certificate button.
   a. Verify the details found in the Certificate window.
   b. Click OK to close the Certificate window.

3. If certificate is correct, click OK on the Validate Server Certificate window to connect.
   If you are unable to connect, please check to make sure you entered your ISO User name and Password correctly in step 2 of the Entering your Credentials section of these instructions. Refer to the Initial Sign-On (ISO) Site at www.login.mtu.edu, if you have forgotten your MTU ISO password.