Memorial University of Newfoundland

Wireless Connection Installation Manual
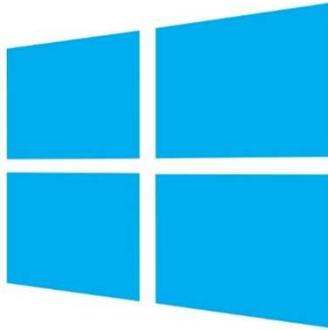
Windows 8.1

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Disclaimer

This document is written using a "vanilla" configuration of Windows 8.1, any user of this guide should be aware that third party programs (such as anti-virus suites and laptop manufacturer network control software) may interfere with configuring the wireless network.   This guide is intended as a "best effort" setup. The steps detailed in this guide have been tested and working on a fully patched and up to date 64bit Windows 8.1 laptop, using the built in wireless card. Due to the nature of wireless networking, additional wireless drivers and/or troubleshooting may be needed, but this would have to be evaluated on a case-by-case basis and is to be understood by client and support personnel that all work is done as "best effort".

Windows 8.1 MUN Wireless Configuration

Requirements:
- A laptop with Windows 8.1 operating system with latest service pack and patches applied.
- A wireless network card supporting IEEE 802.11a/g/n installed with the latest drivers. NOTE: Do not install the network card software, only install the drivers.
- Your wireless account, and SSID can be generated online at http://www.mun.ca/cc/services/network/wireless/dattool.php

Configuration

1. Go to the start menu and search for "Control Panel"
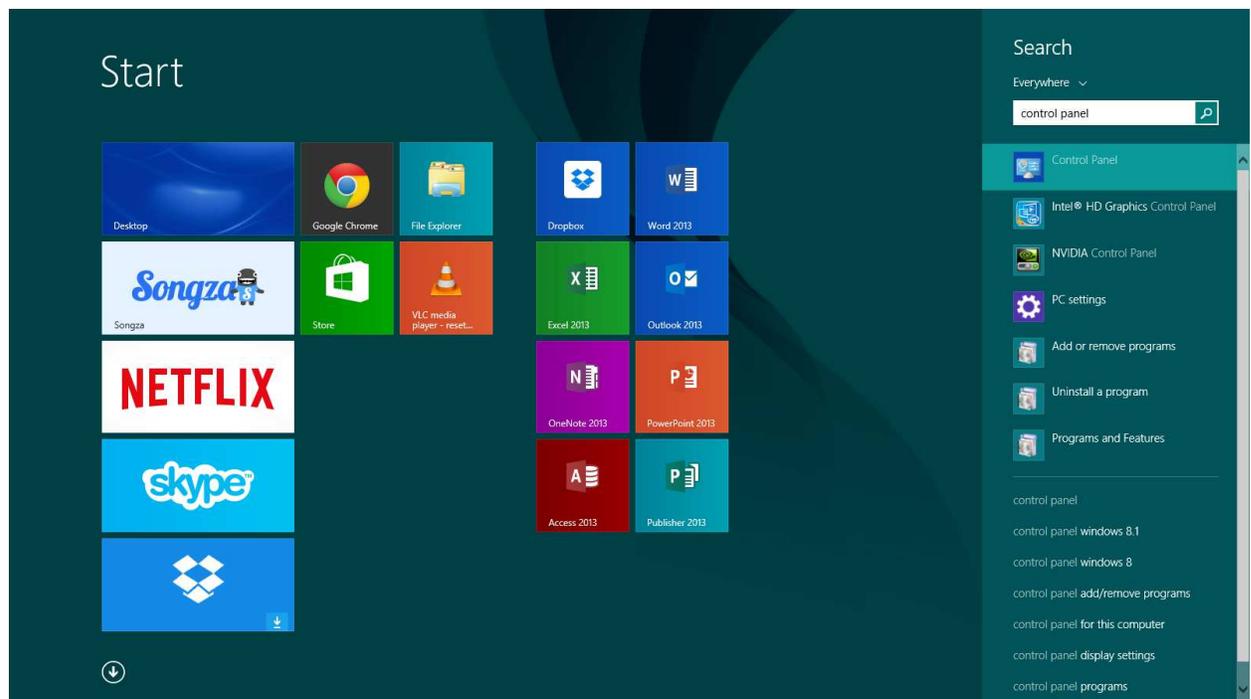
2. Depending on your configuration, you will see one of the two following screens:
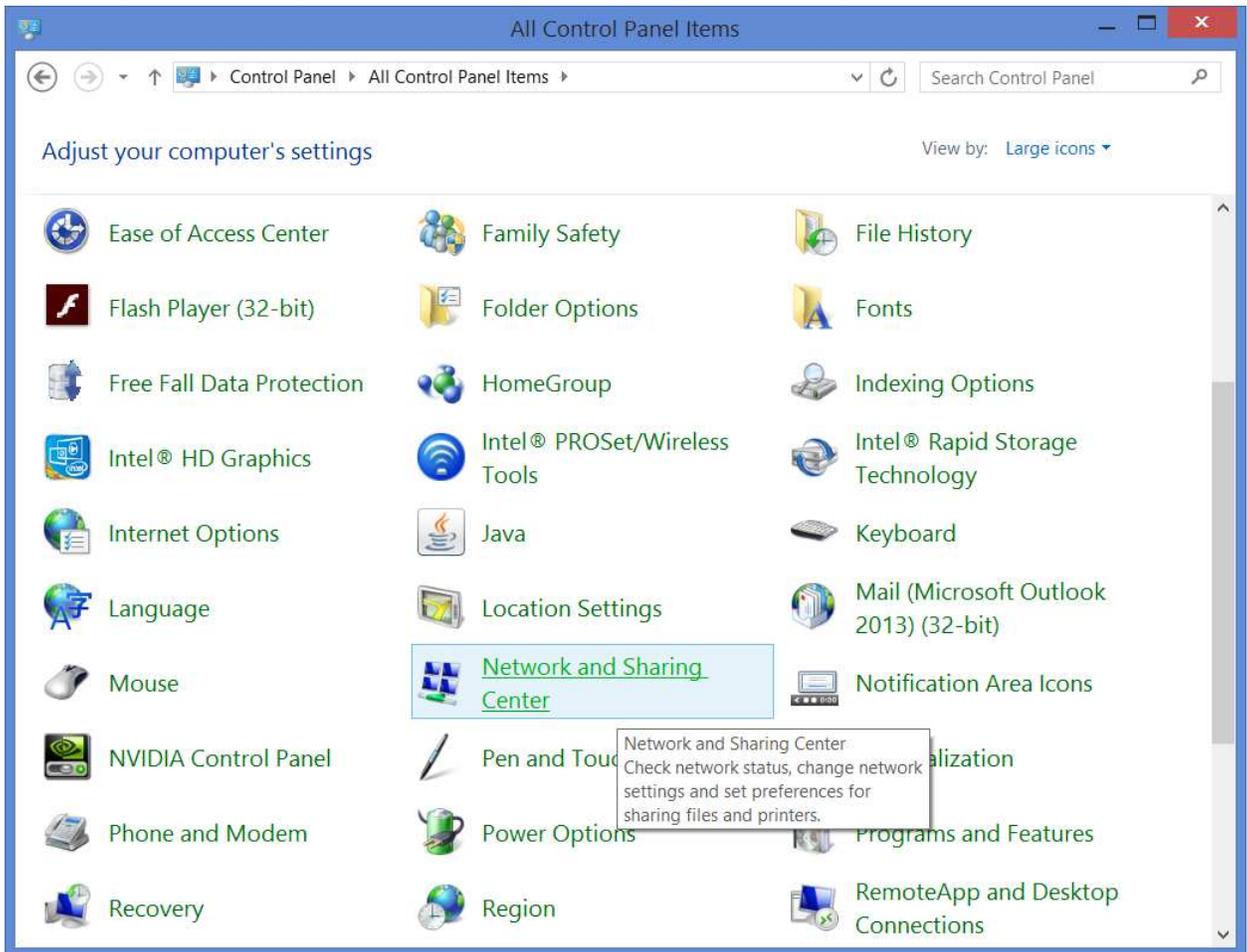
   a. If you see the above, click on "Network and Sharing Center"
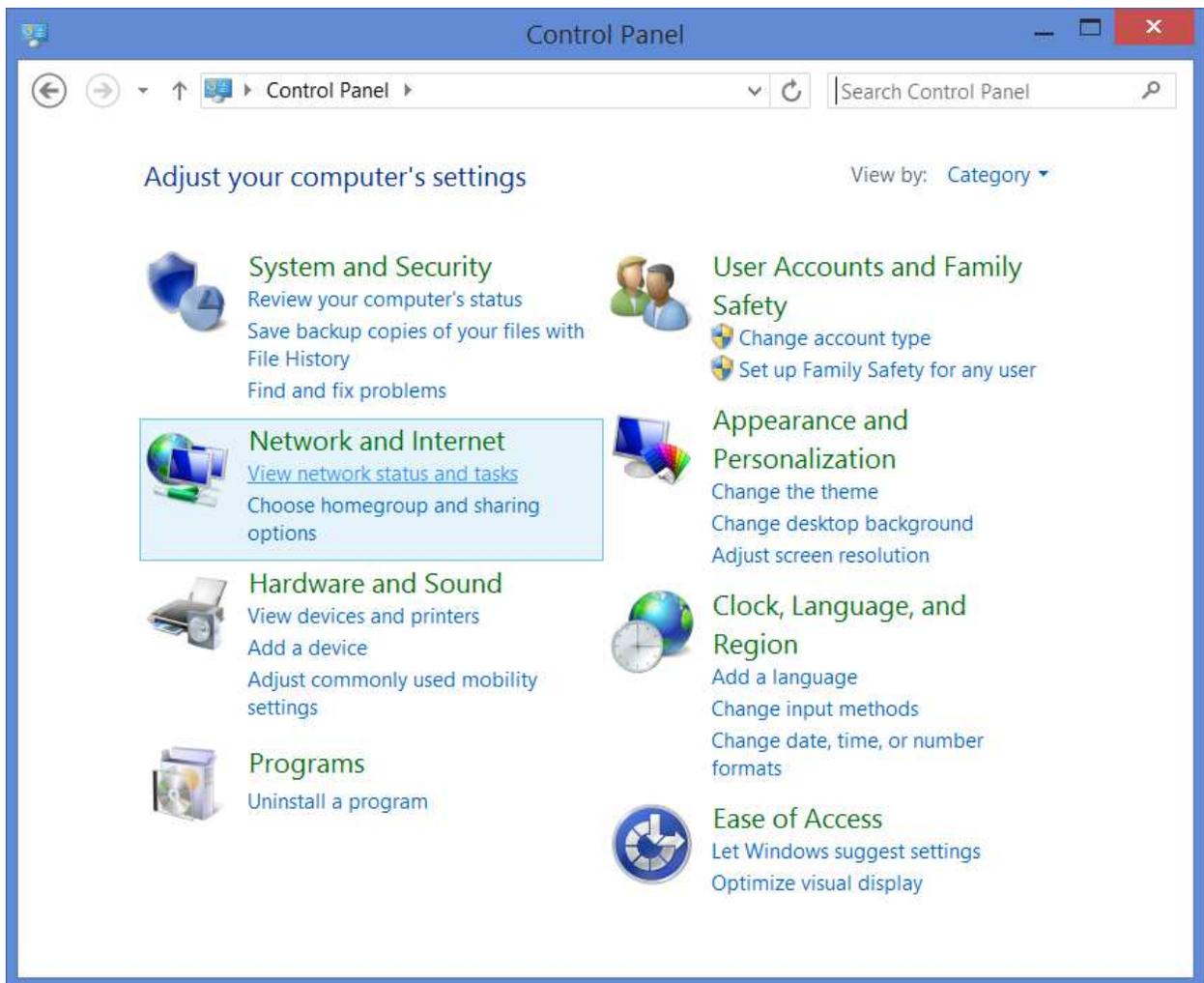
b. If you see the above, click "View network Status and tasks"

3. Either of these options will bring you to "Network and Sharing Center", click "Set up a new connection or network".
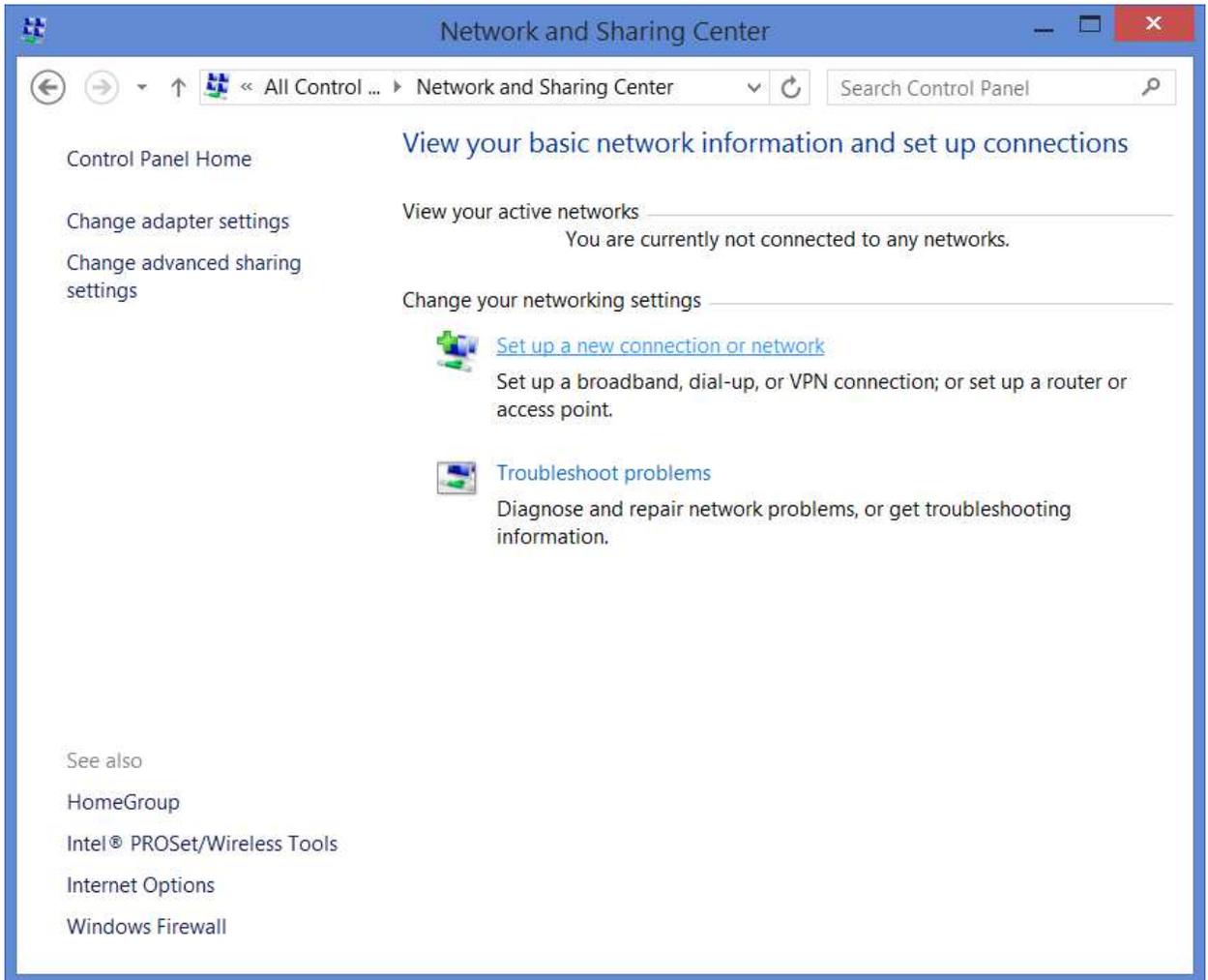
4. A new window will appear, select "Manually connect to a wireless network"
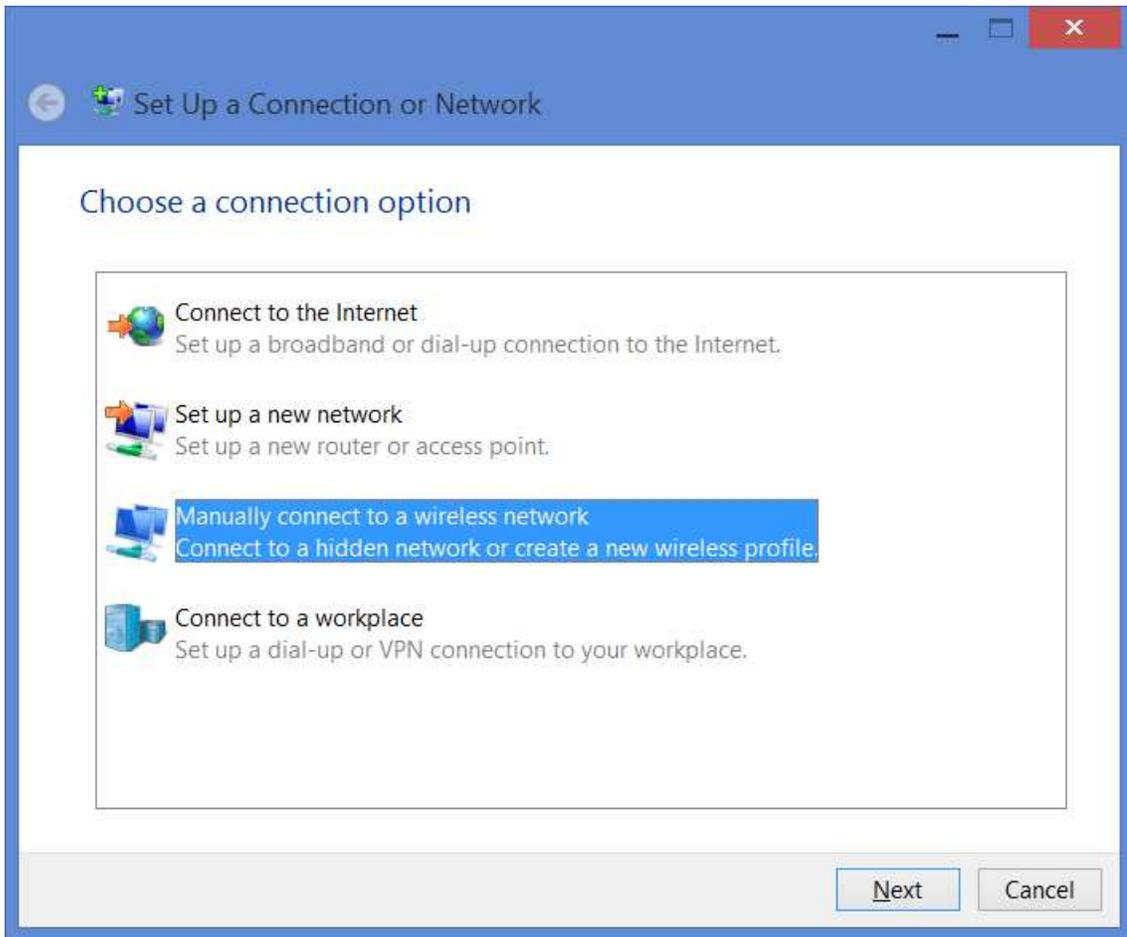
5. Another window will appear. Enter the network name (we will use "stu" in this example, however a different one may have been specified when you completed the DAT form), select "WPA2-Enterprise" from the Security type drop down, "AES" from the Encryption type drop down, and ensure the two check boxes are ticked.

6. When you are done, click next, and then choose "Change connection settings" from the next window.
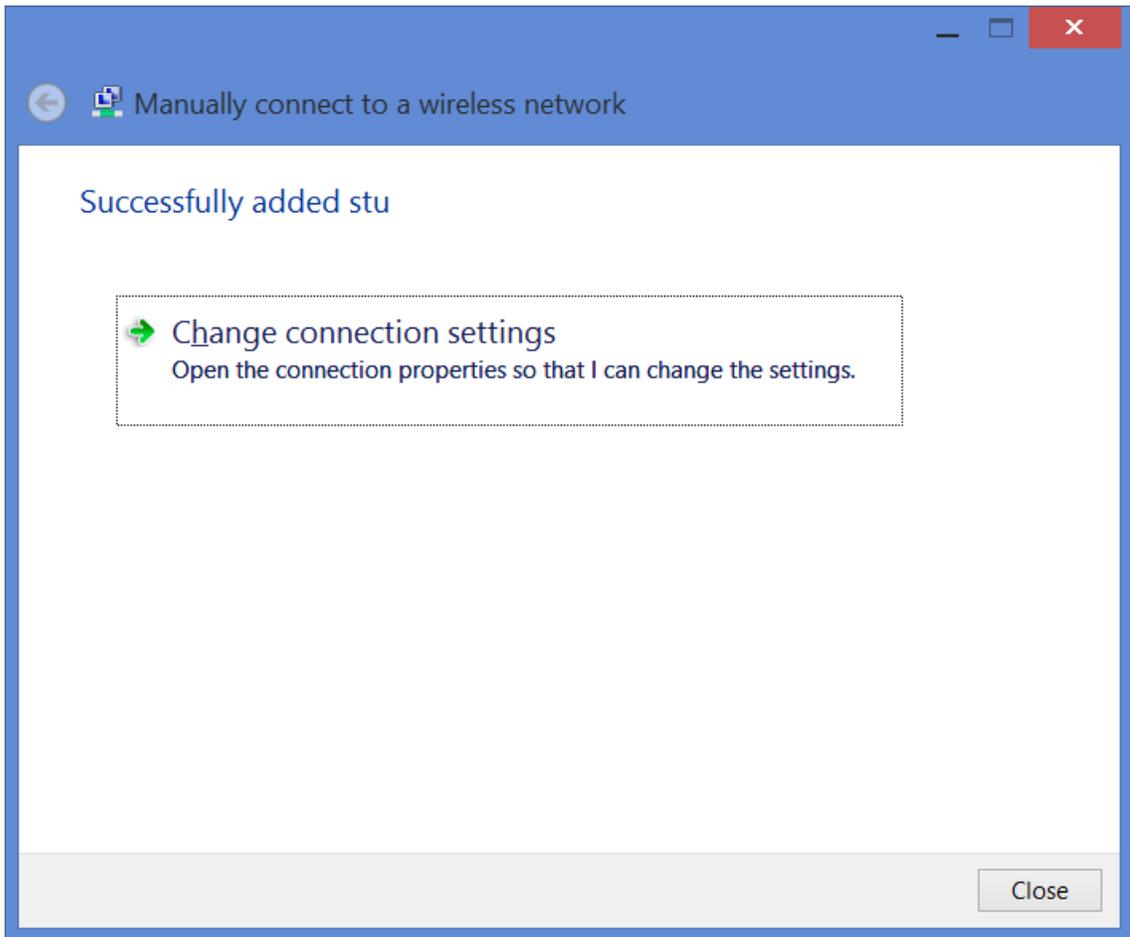
7. Another new window will appear, uncheck "Connect to a more preferred network if available", and then click the "Security" tab on the top
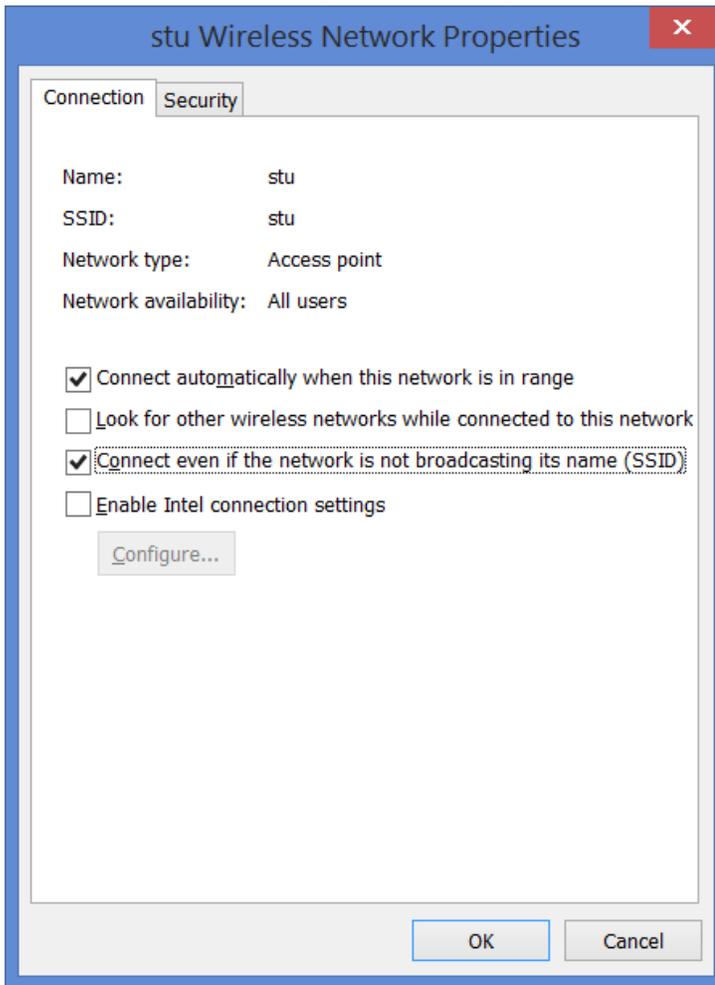
8. Make sure "Microsoft: Protected EAP (PEAP)" is selected in the drop down, then click Settings

stu Wireless Network Properties ✕

Connection | Security

Security type: WPA2-Enterprise   ⌄

Encryption type: AES   ⌄

Choose a network authentication method:

Microsoft: Protected EAP (PEAP)   ⌄   Settings

☑ Remember my credentials for this connection each
   time I'm logged on

Advanced settings

OK   Cancel
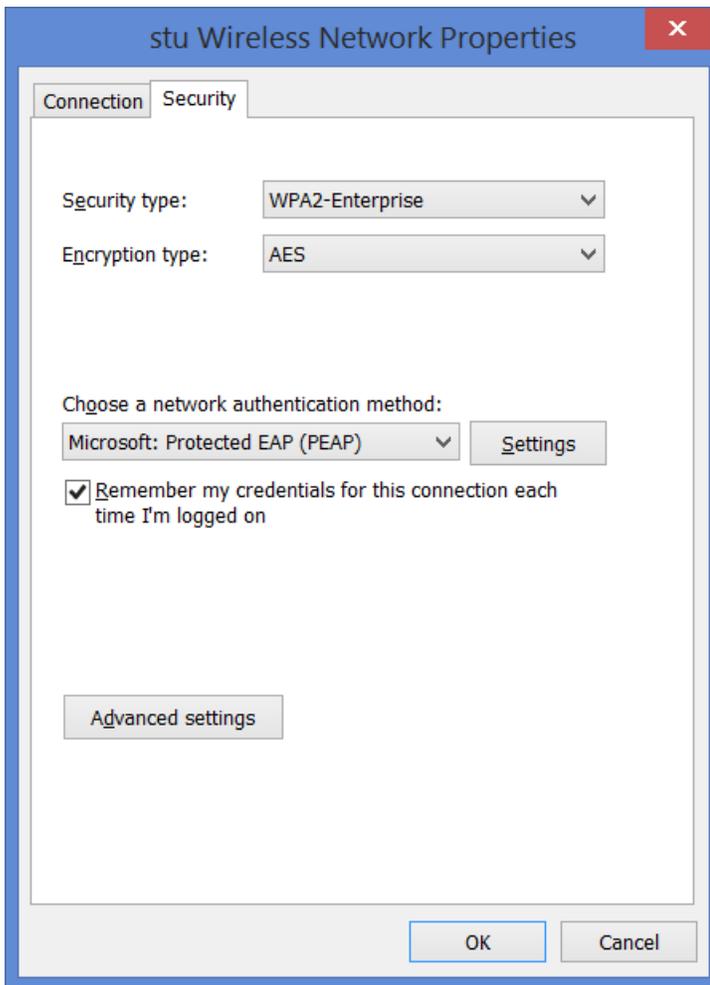
9. Check off the "Thawte Premium Server CA" certificate, and click "Configure" next to "Secured password (EAP-MSCHAP v2)" (Validate server certificate can be left checked)

Protected EAP Properties

When connecting:

☑ Verify the server's identity by validating the certificate

☐ Connect to these servers (examples:srv1;srv2;.*\.srv3\.com):

Trusted Root Certification Authorities:

☐ Starfield Class 2 Certification Authority
☐ Starfield Root Certificate Authority - G2
☐ StartCom Certification Authority
☐ TC TrustCenter Class 2 CA II
☑ Thawte Premium Server CA
☐ thawte Primary Root CA
☐ thawte Primary Root CA - G3
☐ Thawte Timestamping CA

Notifications before connecting:

Tell user if the server's identity can't be verified

Select Authentication Method:

Secured password (EAP-MSCHAP v2)   [Configure...]

☑ Enable Fast Reconnect
☐ Enforce Network Access Protection
☐ Disconnect if server does not present cryptobinding TLV
☐ Enable Identity Privacy

[OK]   [Cancel]

10. A smaller window will appear, uncheck the only check box there, and click OK

EAP MSCHAPv2 Properties

When connecting:

☐ Automatically use my Windows logon name and password (and domain if any).

[OK]   [Cancel]
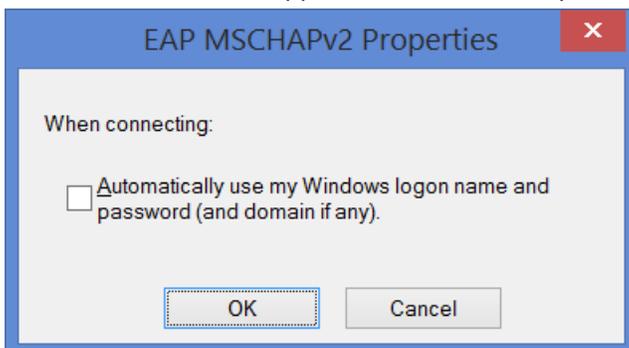
11. Click OK on the Protected EAP properties window (step 9)
12. You should now be back at the Network Properties window, click the "Advanced Settings" button.
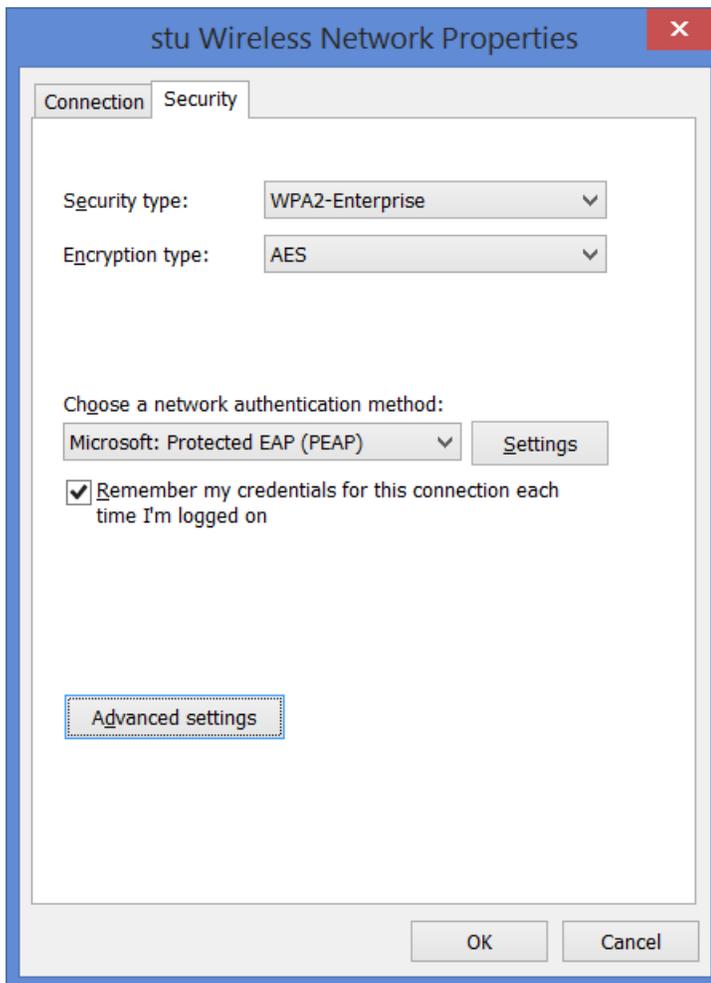
13. In the new window, click the check box on the top, and choose "User Authentication" from the drop down, then click "save credentials"
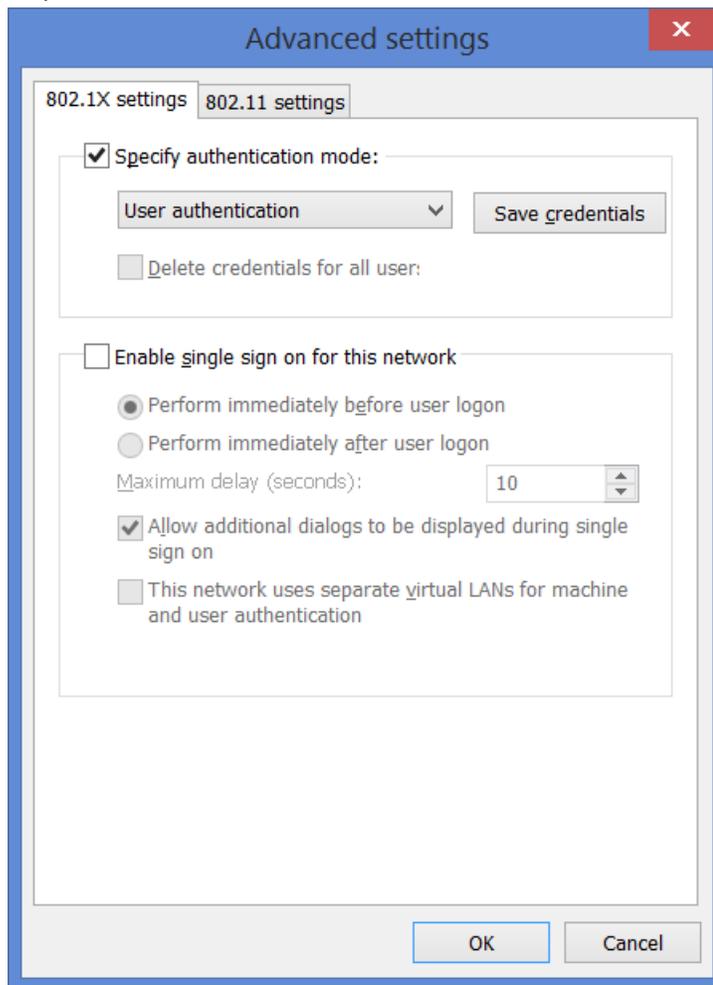
14. Enter your MUN login ID and password, then click OK
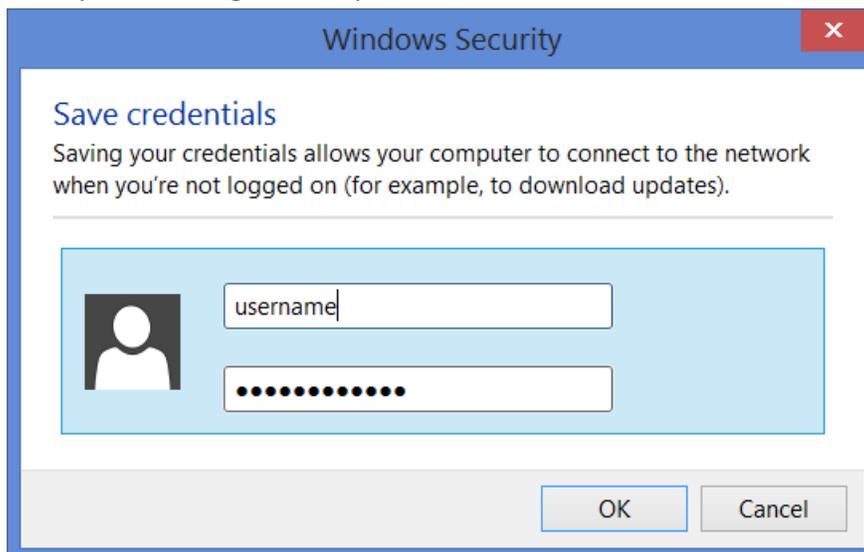
15. If everything went ok, you should see the network displayed under "Networks" in the Charm Bar. Choose the network and press "Connect"
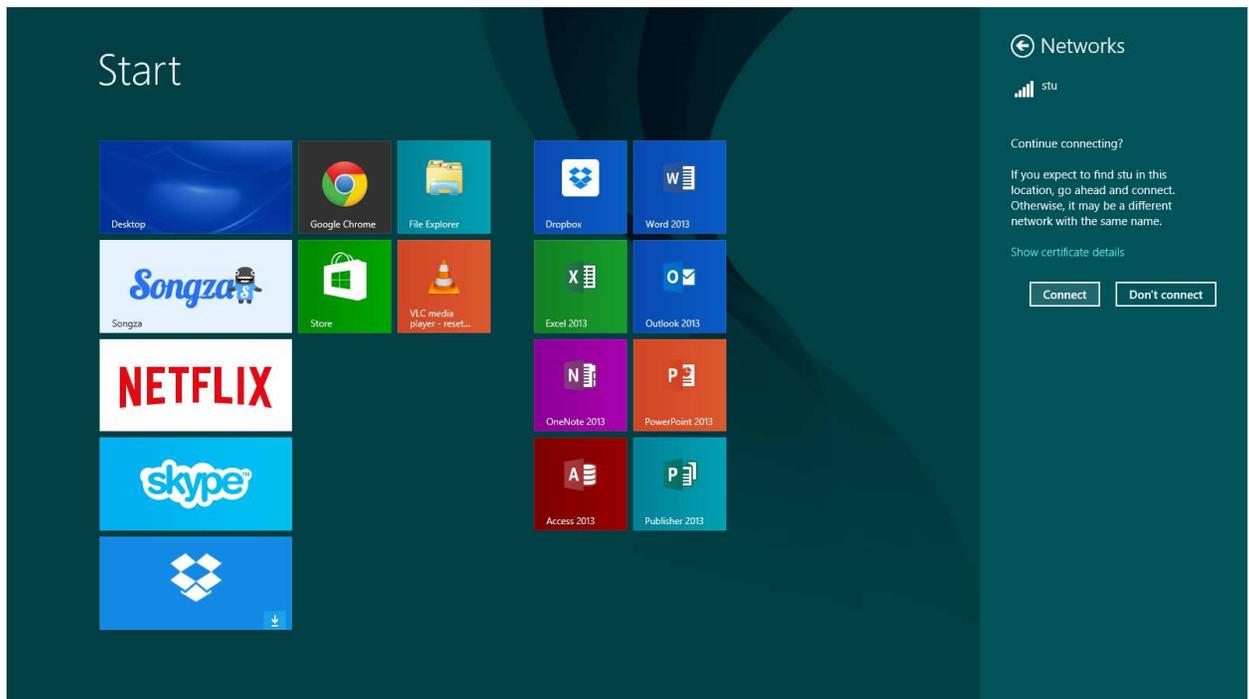
16. After a few seconds it should connect and no more windows or messages should appear.
    a. If the Enter Credentials box continues to appear, or a notification stating Additional information is required, it may mean the password or username is being typed in wrong, or a setting was missed along the way. Double check the configuration, and re-submit the DAT form if unsure about the password.