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 <u>http://www.mun.ca/cc/services/network/wireless/dattool.php</u>

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.

	— L <mark>· · · · · · · · · · · · · · · · · · </mark>
📀 🚇 Manually connec	t to a wireless network
Enter information f	or the wireless network you want to add
N <u>e</u> twork name:	stu
<u>S</u> ecurity type:	WPA2-Enterprise V
Enc <u>r</u> yption type:	AES 🗸
Se <u>c</u> urity Key:	<u>H</u> ide characters
✓ S <u>t</u> art this connecti	on automatically
✓ Connect even if th	e network is not broadcasting
Warning: If you se	lect this option, your computer's privacy might be at risk.
	<u>N</u> ext Cancel

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

stu Wire	eless Network Properties	x
Connection Security		
Name:	stu	
SSID:	stu	
Network type:	Access point	
Network availability:	All users	
Connect automat	ically when this network is in range	
Look for other wi	reless networks while connected to this net	work
✓ Connect even if the network is not broadcasting its name (SSID)		SID)
 <u>E</u> nable Intel conn	ection settings	
<u>C</u> onfigure		
	OK Canc	el

8. Make sure "Microsoft: Protected EAP (PEAP)" is selected in the drop down, then click Settings

stu Wire	less Network Pi	roperties	×
Connection Security			
Security type:	WPA2-Enterprise	~	
Encryption type:	AES	~	
Ch <u>o</u> ose a network au	thentication method:		
Microsoft: Protected	EAP (PEAP)	Settings	
Remember my cro time I'm logged or	Remember my credentials for this connection each time I'm logged on		
A <u>d</u> vanced settings			
L			
		OK Can	cel

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	x
When connecting: $\boxed{\mathbf{V}}$ 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 Starfield Root Certification Authority TC TrustConter Class 2 CA II ✓ Thawte Premium Server CA thawte Primary Root CA thawte Primary Root CA - G3 ✓ Theoret Time termine Cat ✓ Termine Time termine Cat	
Select Authentication Method:	
Secured password (EAP-MSCHAP v2) Configure Image: Configure Image: Configure Image: Configu	<u></u>

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

EAP MSCHAPv2 Properties	×
When connecting:	
☐ <u>A</u> utomatically 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.

stu Wire	eless Network Pr	operties	×
Connection Security			
Security type:	WPA2-Enterprise	~	
Encryption type:	AES	~	
Ch <u>o</u> ose a network au	thentication method:		
Microsoft: Protected	EAP (PEAP) 🗸 🗸	<u>S</u> ettings	
☑ <u>R</u> emember my cr time I'm logged o	edentials for this conne n	ction each	
A <u>d</u> vanced settings			
		OK Cano	cel

13. In the new window, click the check box on the top, and choose "User Authentication" from the drop down, then click "save credentials"

Advanced settings	x
802.1X settings 802.11 settings	
✓ Specify authentication mode:	
User authentication V Save credentials	
Delete credentials for all user:	
Enable single sign on for this network	
Perform immediately before user logon	
Perform immediately after user logon	
Maximum delay (seconds): 10	
 Allow additional dialogs to be displayed during single sign on 	
This network uses separate <u>v</u> irtual LANs for machine and user authentication	
OK Cano	el

14. Enter your MUN login ID and password, then click OK

	Windows Security
Save creder Saving your cre when you're no	ntials edentials allows your computer to connect to the network of logged on (for example, to download updates).
P	username
	OK Cancel

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.