

Lawrence University
Information Technology Services

SECURE WIRELESS CONFIGURATION

Reference Guide

This Reference Guide is a publication of ITS.
Please contact the Helpdesk with questions:

920.832.6570

helpdesk@lawrence.edu

Seeley G. Mudd Library, Room 201

www.lawrence.edu/dept/its

Secure Wireless

The high-security wireless local area network (WLAN) is identified on campus as *LUwireless*. This guide is intended to help you configure your computer to access *LUwireless*. Once connected to *LUwireless*, you will be able to access network space and print to network printers.

Before you begin the configuration process, your wireless adapter's hardware address must be registered with ITS.

Student Registration: ITS recommends that students first connect to the wired network in their room or at the Helpdesk to register their computer. This will enable you to register for both wired and wireless connections simultaneously. Note: If you register via the wired network, as recommended, but do not have wireless *enabled* on your computer, you may have to register for the wireless network separately: connect to the *LUstudent* WLAN (unencrypted), authenticate, and then enter your credentials on the network registration page (you will be automatically directed there the first time you connect).

Faculty and Staff Registration: ITS policy requires that faculty and staff who wish to connect wirelessly on their personal, non LU-issued computer need to bring their machine to the Helpdesk for registration. (This policy is the same for wired connections to the campus network from faculty and staff personally-owned computers.)

After completing the registration process, follow the enclosed instructions based on your computer's operating system.

Please contact the Helpdesk at 832-6570 or stop by the Helpdesk in Library Room 201 if you have difficulty connecting wirelessly.

Windows Vista

1. Go to the *Start Menu* and select *Control Panel*.
2. Under *Network and Internet*, select *View network status and tasks*.
3. Under the *Tasks* menu on the left, select *Manage wireless networks*.
4. In the *Manage Wireless Networks* window, click *Add*.
5. Under *How do you want to add a network*, click *Manually create a network profile*.
6. Under *Enter information for the wireless network you want to add*, type or select the following information:
Network name: type *LUwireless*
Security type: select *WPA-Enterprise*
Encryption type: select *TKIP*
Click *Next*.
7. Under *Successfully added LUwireless*, click *Change connection settings*.
8. Under the *Connection* tab, uncheck *Connect automatically when this network is in range*. Then click on the *Security* tab.
9. Under the *Security* tab, uncheck *Cache user information for subsequent connection to this network*. Then click the *Settings...* button.
10. Uncheck *Enable Fast Reconnect*. Then click the *Configure...* button.
11. Uncheck *Automatically use my Windows logon name and password (and domain if any)*. Then click *OK*.
12. Click *OK*.
13. Click *OK*.

14. Under *Successfully added LUwireless*, click *Connect to...*
15. Under *Select a network to connect to*, click *LUwireless*. Then click *Connect*.
16. Under *Additional log on information is required to connect to this network*, click on *Enter/select additional log on information*.
17. Enter your credentials. Type your user name and password in the corresponding fields. In the *Logon domain:* field type *VIKING*.
18. Under *Connecting to LUwireless* window, wait for the connection to complete.
19. Under *Additional log on information is required to connect to this network*, click on *Enter/select additional Log on information*.
20. Click *OK*. Your wireless connection should now be complete.

Windows XP

1. Once you have enabled your wireless adapter and are within range of the LUwireless WLAN, a *Wireless networks detected* message will appear on your desktop. Click on the message, and a list of WLANs will appear. Select *LUWireless*. Click *Connect*.
2. From the left-hand column, *Related Tasks*, click *Change advanced settings*. The *Wireless Network Connection Properties* window appears. Select the *Wireless Networks* tab. If *LUwireless* does not appear in the list, click *Add*. Create an entry using *LUwireless* as the SSID, *WPA* as the network authentication method, and *TKIP* as the data encryption method on the *Association* tab.
3. Select *LUwireless* from the list of networks and click *Properties*. Choose the *Authentication* tab

and change the EAP type to *Protected EAP (PEAP)*.

4. Click on the *Properties* button below the pull down menu. The *Protected EAP Properties* window appears. In the *Select Authentication Method* box, ensure that *Secured password (EAP-MSCHAP v2)* is chosen. Then, click the *Configure* button.
5. In the *EAP MSCHAPv2 Properties* window, uncheck the option *Automatically use my Windows logon name and password (and domain if any)*.
6. Now back out by clicking *OK* on each of the open windows in succession.
7. After a short time, a *Wireless Network Connection* message should appear. Click on this message.
8. When the credentials dialog box appears, type in your username, password, and *VIKING* as the domain.
9. The first time you log in, a couple additional steps are necessary (thereafter, your computer will connect automatically): First, the *Wireless Network Connection* message will appear. Click on this message. When prompted to verify a WLAN security certificate, click *OK*. Your wireless connection should now be complete.

Macintosh OS X

Note: WPA (WiFi Protected Access) works best using OSX 10.3.3 or later with AirPort software 3.3 or later.

1. If it isn't already on, turn on the built-in wireless adapter/AirPort by clicking the *AirPort* icon in the upper right corner of the screen and selecting *Turn AirPort On*.

2. Then select the *LUwireless wireless local area network (WLAN)* from the same Airport menu.
3. Authenticate using your username and password. Click *OK*.
4. Verify the certificate and click *Continue*. Your wireless connection should now be complete.

A .pdf version of this guide is available online at: www.lawrence.edu/dept/its/services/training.shtml