March 2019

**Router Exercise**

This is a self-paced exercise. Learn, do not hurry.

1. Verify LAN Adapter on your computer is set to DHCP (may need CPALaunch on FS Computer).
2. Reset Router – paper clip works – hold for 10 seconds – monitor top LED.
3. Connect a computer to one of the LAN ports on the router (not Internet connect).
4. Identify the “Default Gateway”.
   * 1. Bring up a DOS or Powershell Window
     2. Ipconfig
5. Type the Default Gateway address in a web browser. Hint: from a browser enter [www.linksyssmartwifi.com](http://www.linksyssmartwifi.com) (this works best if there is no internet connected).
6. Login into the router as admin. Hint: ask instructor or <http://www.routerpasswords.com>
7. Change the Router Admin Password. Write it down (e-ISuite Password Log)
8. Set Default Gateway 10.5.<table number>.1

Set Subnet Mask 255.255.255.0

Set static range from 2 to 100. 101 plus should be set to DHCP.

1. From your computer verify the IP address, Subnet Mask, Default Gateway are correct. Hint: ipconfig (release, renew)
2. What is your IP address assigned to the Ethernet Adapter on your computer?
3. Log back into the router
4. Verify the automatic firmware updates are disabled. Why should the updates be disabled during an incident? When is the best time to do a firmware update?
5. Verify the wireless transmitters are disabled on the router. Both 2.4GHz and 5GHz radios.
6. Enable the wireless on both 2.4GHz and 5GHz.
   1. Set the SSID for 2.4GHz to ITSS<table number>\_2.4
   2. Select the encryption type and password – ITSS<table number>itss!
   3. Set the SSID for 5GHz to ITSS<table number>\_5
   4. Select the encryption type and password – ITSS<table number>itss!
   5. Save your changes
7. Connect to the router with wireless and identify the IP Address assigned to your computer.
8. Did you see 2.4GHz or 5GHz or both? Which did you connect to?
9. Observe the IP Address for LAN connection and Wireless LAN adaptors. Hint: ipconfig
10. Connect your ITSS jump drive via USB to the router and view the file system on the computer. NOTE: The Storage File System Supported are FAT, NTFS, and HFS+ for the router.
11. Do a reboot through router menu. Do NOT use the power or unplug router.
12. (Optional) Experiment with the Linksys mobile application to make router changes.
13. Through the router menu do a factory reset.
14. Setup your router again for 10.5.<table number>.1 for tomorrows exercise. Disable both the 2.4GHz and 5GHZ.