**IC EX 7A: Assignment 7**

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In Class demonstration of a Wi-Fi management tool - Also, short write up of the capabilities of a WiFi and similar monitoring tools for Network security.

*We played the Cisco Space Game “Cisco Wireless Explorer” and learned about the tasks of planning the layout of access points (APs) in a WLAN; also about the various antennae types, and also about their waveform patterns, As the game play progressed through the higher levels, we learned about bridges, repeaters, AES security, and more practice with tweaking the layout design.*

*We watched our instructor’s video chat with the Xirrus Support Team about the Xirrus Management System (XMS). It is a software suite of software products that look simple and rich with features. It allows self-administration of new network users and groups, new devices, and network management tools. The class talked about the Xirrus software’s purported usefulness and about the competition, like Cisco. The Xirrus website shows they are a global company and a major player in the industry with brand-name partners and clients. These probably run on Microsoft® Network Servers. FYI, there are many Unix-based, network-monitoring-applications that work with the Apache® Tomcat Web Server and here is a list of them to vote from:* [*http://www.linuxquestions.org/questions/2015-linuxquestions-org-members-choice-awards-117/network-monitoring-application-of-the-year-4175562720/*](http://www.linuxquestions.org/questions/2015-linuxquestions-org-members-choice-awards-117/network-monitoring-application-of-the-year-4175562720/)*.   
And network-security-applications too:* [*http://www.linuxquestions.org/questions/2015-linuxquestions-org-members-choice-awards-117/network-security-application-of-the-year-4175562718/*](http://www.linuxquestions.org/questions/2015-linuxquestions-org-members-choice-awards-117/network-security-application-of-the-year-4175562718/)

*I downloaded the “Wifi Analyzer” from the Google Play Store. It is made by farproc; it has 10 million downloads; and is rated 4.4 stars (very good). The author is Kevin Yuan and the version is 3.9.9-L. It offers online help at* [*http://a.farproc.com/wifi-analyzer#faq*](http://a.farproc.com/wifi-analyzer#faq)*. The online help shows a frequently asked questions (faqs) page and the first question is: 1. What is this app for? Answer: Wifi Analyzer is a handy tool which helps you to select a better channel for your wireless router.*

*The Wifi Analyzer application shows a top menu and enables the phone’s bottom left button.*

*The top menu shows an eye, a* wrench*, and a star.  
 The eye lets you choose which presentation to display with choices:*

*Channel graph (waveforms in different colors and sizes that show networks congestion),  
Time graph (signal strength comparison of detected networks),   
Channel Rating (Stars of signal strength across all channels of any network selected).  
AP list (Network name, MAC address, Frequency Band, Channel strength in dBm, Security),   
Signal meter (analog needle reading of the signal strength of any network selected).*

*The wrench is for adjusting scan settings, channel settings of the 2.4 GHz and 5 GHz bands, the user interface (UI) settings, and other settings.  
 The star opens the Google Play Store to rate the app quickly.*

*The phone’s bottom left button has choices: Select AP, Snapshot, Send, Tools, and Help.  
 The Select AP choice displays a list of APs abd the one currently selected.  
 The Snapshot takes a snapshot of the display tht can be saved with a filename.  
 The Send choice presents other apps (i.e. Gmail, Add to Dropbox, Bluetooth, Commandr, Drive) to use for sending a snapshot).  
 Tools choice is the same as the wrench option at the top.  
 The Help choice is like the Star option at the top for Online Help but it also has options to make a donation, and the About information.*