



MISSOURI UNIVERSITY OF SCIENCE AND TECHNOLOGY

*Formerly University of Missouri-Rolla*

# Wireless Update

November 2012



## Wireless service at S&T

Current system is Cisco based 802.11B/G 11-54Mb/s 2.4Ghz

Over 500 Cisco wireless access points deployed

Highly susceptible to RF interference on the 2.4Ghz spectrum

Cannot handle high demand/density locations

Decided to pursue upgrading over 1 year ago, evaluated Aruba, Cisco, Enterasys, Meru and Meraki.

Decided to switch to Aruba equipment based on features, upfront and ongoing maintenance costs



Purchased Airwave wireless management system saving \$20K/year ongoing cost with Cisco

Purchased 600+ Dell branded Aruba 802.11N 600Mb/s wireless access points and received a BOGO discount above existing discount

Less susceptible to RF interference and has technology to kill rogue access points.

Can handle high demand/density locations like classrooms

Started a pilot deployment in the new Miner Village residential housing facility and began upgrading campus several weeks ago

Plan is a 1 for 1 replacement and then review coverage and add as needed, emphasis on improving classroom coverage



## Buildings converted to Aruba 802.11N Wireless

Butler-Carlton Civil Engineering  
BOM4 (Bureau of Mines Building 4)  
Compressible Flow Laboratory  
Computer Science  
Curtis Laws Wilson Library  
Electrical Engineering  
Engineering Management  
Engineering Research Lab  
Experimental Mine  
Fulton Hall  
Fort Leonard Wood (Missouri S&T supplied wireless locations)  
General Services

Humanities and Social Sciences Building  
Hydrogen Fueling Station  
Interdisciplinary Engineering Building 11/15  
Miner Village  
McNutt Hall  
Physics Building  
Pine Street Buildings  
Straumanis Hall (formerly MRC)  
Technology Development Center (Innovation Park)  
Temporary Research Facility  
UMSL Engineering Education Center - St Louis

To keep up with future migrations go to: [itpress.mst.edu](http://itpress.mst.edu)

To get an up to date list of converted buildings go to: [it.mst.edu/services/wireless/aruba-n](http://it.mst.edu/services/wireless/aruba-n)

For more information on wireless at S&T go to: [it.mst.edu/services/wireless](http://it.mst.edu/services/wireless)