

*** This is only a proposal. No funding or staff resources have been committed to it at this time. ***

TCNJ Campus-wide Wireless LAN Initiative

Wireless networking has been at the College in one form or another since about the year 2000. The College has acquired several generations of wireless systems since that time. Currently the College has four different wireless solutions in place throughout the campus. This project recommends replacing the three oldest wireless systems with the most recent system's technology (Aruba Networks) and expanding the current scope of wireless coverage to include all buildings and adjacent outdoor spaces.

This wireless initiative would be implemented over a 5-year period. In the first year, the focus would be to remove the existing, old wireless systems and replace those with the Aruba Networks wireless system so that the campus has a consistent wireless interface going forward. The larger deployments of the old wireless system would be included in the first year along with the various "hot spots" located in the other buildings. Residential buildings are generally prioritized higher than academic buildings as suggested by the Deans at the September 20, 2010 IT/Deans meeting. The priorities to be used for the residential buildings themselves were furnished by the Director of Residential Education & Housing. Because the residential spaces have limited access during the school year, each project year also has a set of academic or administrative buildings included. The TCNJ Master Plan was also consulted in the prioritization process. Buildings that have a demolition date listed in the near future (e.g. Holman, Norsworthy) were prioritized lower with the anticipation that a full wireless installation will not need to be done. However, these were still included for budgeting purposes since plans can and do change. Also, buildings that already have an appropriate wireless presence (e.g. Green Hall, Student Center, Roscoe West Hall, Recreation Center) or have little need for wireless (e.g. Spiritual Center) have been prioritized lower. Finally, this project assumes any new buildings (e.g. Education, SYE building) would include wireless coverage in the building program as they are not reflected in this project.

Year 1 – FY2012 - Townhouses South/East/West, Cromwell Hall (reno begin summer 2011), Loser Hall (replace existing APs), TCNJ Library (replace existing APs), replace Hot Spot locations

Year 2 – FY2013 - New Residence Hall, Centennial Hall, EAB Halls, Travers Hall, Wolfe Hall, Forcina Hall (swing space, reno 2013 for CS & '68 occupants)

Year 3 – FY2014 – Armstrong Hall, School of Business Building, Science Complex+Biology, Social Science Building, Sports fields/stadium area

Year 4 – FY2015 - Norsworthy Hall (review first, master plan demo 2014), ASB, Bliss Hall+Annex, Kendall Hall, Music Building, Brower Student Center, Facilities, Packer Hall, Roscoe West Hall (master plan demo '68 in 2015)

Year 5 – FY2016 - Green Hall, Holman Hall (master plan demo 2013), McCauley House (review first, demo for Town Center?), Powerhouse, Recreation Center, Spiritual Center

Note: Art/IMM Building, Hausdoerffer Hall, Phelps Hall, Decker Hall and Eickhoff Hall are not reflected in the lists because they already have full wireless coverage using the Aruba Networks wireless technology.

		Acad/Admin			
	FY	Cost	Residential Cost	Common Cost*	Total Cost
Install Year 1	FY2012	\$143,000	\$286,000	\$71,000	\$500,000
Install Year 2	FY2013	\$110,000	\$390,000	\$0	\$500,000
Install Year 3	FY2014	\$400,000	\$0	\$0	\$400,000
Install Year 4	FY2015	\$425,000	\$75,000	\$0	\$500,000
Install Year 5	FY2016	\$300,000	\$0	\$0	\$300,000
Totals		\$1,378,000	\$751,000	\$71,000	\$2,200,000

* - Common Cost is the cost of the core infrastructure hardware and base licenses