# Communication Technologies Advisory Group

Notes

# November 17, 2016

# **Welcome**

## Staffing Update

* New Network Architect - Troy Holder
* New Critical Facilities Coordinator - Joseph Perry

## CATV-Contract ends summer of 2018-will probably begin conversations with Housing in the spring

**MDFs**

* CMDF - Add’l HVAC redundancy – project to install secondary cooling system-construction start imminent

**Infrastructure Records**

* Outside plant fiber inventory - on hold-in process of hiring a new field technician
* Wireless maps development in progress (194/201 buildings loaded)
* 256 buildings (41,100 outlets) in PLA ground.

**Building Infrastructure Projects**

* MRC under construction
* Winston/Caldwell/Tompkins, Gardner/Bostian/Phytotron, CVM Main in design
* Biltmore-designing soon
* Greg reminded everyone that when buildings are completed they can be viewed in PLA ground

**UPS -** Replacement project has started and will continue through the spring and may earlier summer to compete by the end of this fiscal year. This is normal annual maintenance.

**Campus Backbone**

* Centrex Replacement NMDF (North Campus under construction), hope to complete in of January-SMDF (design)
* Backbone IOS maintenance - dates pending per new Architect
* New alternate fiber route Main Campus to CVM, ductbanks

**Data Center**

* New Primary Data Center - UA office to revise previous study. Will look at colocation options.

**Access Layer**

* [Building upgrades](https://docs.google.com/spreadsheets/d/1W0f0kXnUCEc-bNndXdLNmPOF2p74dVt-MpORSLrsVRE/edit#gid=0) - full CALA - appr. $2.5M planned for FY16/17 - Outsourcing labor to NWN - 1st upgrade tentative for early January (Jason Proctor, Project Mgr)
* Access layer IOS upgrades delayed
* Internal designed projects - Park Shops, Friday Inst.
* Installation of ASR 920 routers to start over the Summer in routed buildings: Talley, Campus Police, OSCAR Lab - Still delayed

**Cellular/mobile** – Verizon/Spidercloud pilot - Williams, Scott, Riddick - go-live imminent, campus-wide agreement in the works. T-Mobile interested in pilot.

**IT Strategic Planning-** Continuing to move but hampered by lack of new resources..

**Budget**

* Primary focus for 16/17 will be upgrades to aging access layer
* 10% increase each of the next 2 years to close the gap

Wireless still appears to be pretty good…Greg asked that if any of the others see something to the contrary to please let him know as awareness is one purpose for CTAG meetings.

Data Center upgrades coming-new positon to focus on the access layer, etc…

**Unified Communications**

* UNCG and App State Updates
  + App State moving along with their roll out…
* MySoft Replacement -- PCR360
  + Working on integration with CUCM and Unity for provisioning
* Moving Help Desk from Angel call center to ComTech CCX (possibly first of next year) will go live
* Porting numbers to Windstream for internal calling-Next 6 months hoping to move numbers that are non-analog data numbers over to Windstream

**Systems & Development**

* Evaluating AKiPS as a replacement for Nucleus & Cacti
* Evaluating Network Management Tools
* Upgraded all RHEL5 servers to support production Shibboleth
* Working on moving all tools (including Cyclone) from WRAP to Shib by end of Dec
* Building automation and validation tools for NWN Switch Replacement project

## Wireless

* Talley phase 2 complete, Reynolds (construction), Hillsborough Bldg. (design)
* Residence Hall full wireless – phase 2 in design
* Beginning to consider classroom wireless at a slow pace (~$100k annually) for FY18 and beyond-$90,000 had been allocated for growth in wireless and density however; it did not materialize as first thought. Therefore, Greg asked the group their thoughts on taking those funds and redirecting them into making slow but steady progress on the classrooms that did not have wireless.
* EDUROAM (secure SSID )
  + Goal is to eventually transition as many stakeholders as possible to use this SSID - **still tweaking Airwave report**
    - 1772 eduroam users in July
    - 3605 eduroam users in August
    - 23854 eduroam users in October
  + Need to “beef up” documentation - particularly around trouble-shooting
* Now tracking wireless metrics as part of overall [monthly metrics](https://oit.ncsu.edu/campus-it/campus-data-network/communication-technologies-metrics/)

### Parking Lot Items

* Routing licenses at the BDF level – when and how much should occupants pay? Interim solution is 50/50 when “desired”, ComTech funds when required
* “virtual data center” – what is it and who pays-(this item may be removed)
* Funding for server rooms, higher capacity (10Gbs ports), etc.-(this item may be removed)

## Upcoming Meeting Dates

* Next CTAG Meeting – January 5, 2017 - 9:30, AFTC 106