# Communication Technologies Advisory Group

Agenda

# February 2, 2017

# **Welcome**

## Staffing Update

* Status of Network Engineer

## CATV

**MDFs**

* CMDF - Add’l HVAC redundancy - construction started

**Infrastructure Records**

* Outside plant fiber inventory - on hold
* Wireless maps development in progress (194/201 buildings loaded)
* 260 buildings (42,500 outlets) in PLA ground.
* To replace iTRACS software

**Building Infrastructure Projects**

* In construction: MRC, Gardner/Bostian/Phytotron,Winston/Caldwell/Tompkins
* In design: CVM Main, North, Carroll, Metcalf

**UPS -** Replacement project has been completed for this fiscal year

**Campus Network**

* Centrex Replacement NMDF (under construction), SMDF (design)
* Backbone IOS maintenance - To be determined
* New alternate fiber route Main Campus to CVM, ductbanks
* Firewall Service Module migration to begin soon

**Data Center**

* New Primary Data Center - Developing buy vs. build model.
* Developing improved maintenance programs

**Access Layer**

* [Building upgrades](https://docs.google.com/spreadsheets/d/1W0f0kXnUCEc-bNndXdLNmPOF2p74dVt-MpORSLrsVRE/edit#gid=0) - LMNOP project - 3 buildings complete
* Access layer IOS upgrades - To be determined
* Internal designed projects (this FY) - Park Shops, Friday Inst., Polk
* 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 - live. campus-wide agreement in the works. T-Mobile interested in pilot.

**IT Strategic Planning**

* Focus on service portfolio

**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

**Unified Communications**

* UNCG and App State Updates
* MySoft Replacement -- PCR360
  + Working on integration with CUCM and Unity for provisioning
* Moved Help Desk to ComTech Call Center system
* Porting numbers to Windstream for internal calling - 5000 numbers
* Decommissioning old infrastructure
* Evaluating PCI & NIST compliance for UC Systems

**Systems & Development**

* Evaluating AKiPS as a replacement for Nucleus & Cacti
* Network Management System RFP
* Working on refresh of all Network Web Tools
* Planning for iTRACS replacement

## Wireless

* Near Field Communication
* Hillsborough Bldg.
* Residence Hall full wireless – phase 2 in design
* Beginning to consider classroom wireless at a slow pace (~$100k annually) for FY18 and beyond
* EDUROAM (secure SSID )
  + Goal is to eventually transition as many stakeholders as possible to use this SSID
    - 1772 eduroam users in July
    - 3605 eduroam users in August
    - 23854 eduroam users in October
    - 26058 eduroam users in January
  + 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
* Funding for server rooms, higher capacity (10Gbs ports), etc.

## Upcoming Meeting Dates

* Next CTAG Meeting – March 2, 2017 - 9:30, AFTC 106