# Communication Technologies Advisory Group

Agenda

# April 6, 2017

# **Welcome**

## Staffing Update

* Welcome Stephen Neal - new Senior Network Engineer - access layer focus

## CATV

**MDFs**

* CMDF - Add’l HVAC redundancy - project complete

**Infrastructure Records**

* Wireless maps development in progress (196/201 buildings loaded)
* 260 buildings (42,500 outlets) in PLA ground.

**Building Infrastructure Projects**

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

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

**Campus Network**

* Centrex Replacement NMDF (under construction)
* Backbone IOS maintenance - To be determined
* New alternate fiber route Main Campus to CVM, ductbanks
* Firewall Service Module migration has started. Working with CVM currently
* New network approach for new high bandwidth buildings (EB Oval, Plant Sciences)

**Data Center**

* New Primary Data Center - Developing rent 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 - 64% complete
* Access layer IOS upgrades - To be determined
* Internal designed projects - Park Shops, Friday Inst., Polk, Butler
* Installation of ASR 920 routers to start over the Summer in routed buildings: Talley, Campus Police, OSCAR Lab - Still delayed

**Cellular/mobile**

* Verizon/Spidercloud - still working on campus-wide agreement.
* Sprint, AT&T, and Verizon want to improve campus outdoor coverage

**IT Strategic Planning**

* Focus on service portfolio
* Governance team is continuing to meet with Marc
* Space/Tech initiative has an internal draft

**Budget**

* Primary focus for 17/18 remains upgrades to aging access layer
* 10% increase each of the next 2 years to close the gap
* Any services we could cut?

**Unified Communications**

* UNCG and App State Updates
* PCR360

**Systems & Development**

* RFP awarded for AKiPS
* Working on refresh of all Network Web Tools
* Planning for iTRACS replacement

## Wireless

* Classroom Coverage
  + Recent conversation around needs exceeding current state (Top Hat)
  + Reminder that we’re beginning to consider classroom wireless at a slow pace (~$100k annually) for FY18 and beyond
* Near Field Communication
* Hillsborough Bldg. - construction completed
* Residence Hall full wireless – phase 2 - Aruba bid awarded
* EDUROAM (secure SSID )
  + Evaluating alternatives to CloudPath
  + Given current issues, OIT will not be stressing eduroam as primary 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
    - 26425 eduroam users in March
  + 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 – June 1, 2017 - 9:30, AFTC 106
  + (May meeting likely canceled)