

# Communication Technologies Advisory Group

November 17, 2016

## Welcome

## Staffing Update

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

## CATV

## MDFs

- CMDF - Add'l HVAC redundancy - construction start imminent

## Infrastructure Records

- Outside plant fiber inventory - on hold
- 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

**UPS** - Replacement project has started

## Campus Backbone

- Centrex Replacement NMDF (under construction), SMDF (design)
- Backbone IOS maintenance - dates pending Architect's arrival
- 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](#) - full CALA - appr. \$2.5M planned for FY16/17 - Outsourcing labor to NWN - 1st upgrade tentative for early January

- 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**

### **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
- Moving Help Desk from Angel to ComTech CCX
- Porting numbers to Windstream for internal calling

### **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
- 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](#)

### **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 – January 5, 2017 - 9:30, AFTC 106