# Communication Technologies Advisory Group

# February 2, 2017

# **Present:** Jill Sexton, Troy Holder, Greg James, Chris Eichman, Josh Jury, Greg Sparks, Andy Raynor, Debbie Carraway, Shawn Dunning, David Ladrie, Ed Rogers, Josh Gira, Zack Dean

# **Welcome**

## Staffing Update

* Status of Network Engineer-onsite interview scheduled

## 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-going to get rid of iTRACS software -ComTech will build their own software hopefully around the summer

**Building Infrastructure Projects**

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

**UPS -** Replacement project almost completed (4 buildings left)

**Campus Network**

Centrex Replacement NMDF (under construction), SMDF (design)

Backbone IOS maintenance - To be determined

New alternate fiber route Main Campus to CVM, (agreement w/MCNC is in Legal office)

Two new duct banks are under design

Firewall Service Module migration to begin soon-will reach out to the Lan admin to get it coordinated and will keep Ctag team updated

**Data Center**

New Primary Data Center (The term DC3 has been banished)- Developing buy vs. build model. If able to get space will try and vacate Hillsborough building

Developing improved maintenance programs-Joseph Perry, is the Facilities Critical Coordinator in Comtech and he is making good improvement in this area.

**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-hoping for one new resource to be

**Budget**

* Primary focus for 16/17 will be upgrades to aging access layer-about seven million dollars in maintenance have been identified-this maintenance need to be accomplished in the next four years
* 10% increase each of the next 2 years to close the gap-please remind your departments and help educate them.

**Unified Communications**

* UNCG and App State Updates-going well
* 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 is in Purchasing
* Working on refresh of all Network Web Tools
* Planning for iTRACS replacement- replacement has not been named.

## Wireless

* Near Field Communication- the conversations were started on this new opportunity- question asked to the group-“where do you see central IT or do you see central IT as having a role helping to facilitate this type of thing-have you seen similar needs in your departments and what point do you see ComTech getting involved?” The vision of other campus colleges were shared with the group. Discussion will continue at next CTAG meeting as well as CITD.
* Hillsborough Bldg.-getting ready to kick off test bed..
* Residence Hall full wireless – phase 2 in design
* Beginning to consider classroom wireless at a slow pace (~$100k annually) for FY18 and beyond-Meeting coming up with DELTA
* 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/)
* Hoping to upgrade Cloud Path next week-also a line item in 17/18 budget is to “potentially” replace Cloud Path

### 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