# Communication Technologies Advisory Group

Notes

# April 6, 2017

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# **Welcome**

## Staffing Update

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

## CATV-Students are not ready to throw it out yet-one year left on current contract

**MDFs**

* CMDF - Add’l HVAC redundancy - project complete

**Infrastructure Records Stats**

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

Comtech will be replacing Itracs and writing on package

**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 is complete for this fiscal year

**Campus Network**

* Centrex Replacement NMDF (under construction) is moving forward

North campus is 85% complete

* 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
* Draft PPR related to server room to share at the June CITD meeting

**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.
* More of the carriers (Sprint, AT&T, and Verizon) want to improve campus outdoor coverage-meetings scheduled

**IT Strategic Planning**

* Focus on service portfolio-service planning (developed template within OIT to identify services and flush out all of what we do) Will be working with Evergreen an overall service planning consultant company familiar with Service Now

**Budget**

* Primary focus for 17/18 remains upgrades to aging access layer
* 10% increase each of the next 2 years to close the gap
* OIT are looking at services in the Network realm that can be cut-and asking CTAG for input

**Unified Communications**

* UNCG and App State Updates
* PCR360

**Systems & Development**

* RFP awarded for AKiPS-web based trouble shooting tools
* 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)