# Communication Technologies Advisory Group

# August 6, 2015

# **Welcome**

## CATV -

**MDFs**

* CMDF HVAC - looking at add’l redundancy, relocating power panels
* NMDF - Makeover design in progress
* WMDF – final room upgrades in progress

**Infrastructure Records**

* Outside plant fiber inventory in planning
* Wireless maps development in progress (93 buildings loaded) – public interface in planning
* 250 buildings (43,000 outlets) in PLA ground.

**Building Infrastructure Projects**

* Research 4 under construction
* CFL, DH Hill, Cox in design

**UPS -** Developing list for FY2015/16, replacements will start in Fall.

**Campus Backbone**

* Cisco discontinuing support for ACE load balancer hardware - **Cisco has announced renewed support for the ACE platform**
* MCNC DWDM Optical Node moved from HMDF to SMDF
* All 5 MDF network management vlans moved to MPLS L3VPN. Minor work still needs to be completed on the routers.
* Backbone IOS upgrades completed
* Moving equipment from 2-post racks to 4-post cabinets in CMDF and WMDF over the Fall and into the Winter. Continuing to migrate equipment from HMDF to SMDF.
* Fiber backbone extension – cutovers starting on 5/16 with optical node move and 7/29 Internet gateway move others will continue in the Fall and into the Winter.
* Installing IPS/IDS environment for PCI MPLS L3VPNs and other selected networks this Summer - **PCI traffic scheduled for end of August - policy implementation in September**
* Finalizing a significant portion of the centralized services infrastructure at SMDF and CMDF
* Implementing an interim plan this Summer to provide ResNet with additional bandwidth.
* Looking into future WAN connectivity options to NCREN (Nx10G vs 100G) - both Internet gateways will be “active” until we implement additional WAN connectivity in Summer of 2016.
* Centrex Replacement NMDF and SMDF Zones - in design

**Data Center**

* Access layer switch software upgrades starting at 1:00 AM on Sunday 8/9/2015 in DC1 and DC2.
* Extended maintenance 9/19/2015 - 9/20/2015

**Access Layer**

* Building upgrades “CALA Lite” - FY14/15 projects - all designs complete except for Venture II, Nelson
* FY15/16 list sent to CTAG
* IOS upgrades this Fall/Winter within the access layer

**Bluelights -** Working on comprehensive long-term plan. Currently have a resource devoting 20 hours/week to Bluelight maintenance.

**Cellular/mobile** – Verizon/Spidercloud pilot - Williams, Scott, Riddick

**IT Strategic Planning** - Cyberinfrastructure Masterplan thoughts

**Budget**

* Have moved to FTE-based model for 15/16 and converted to auxiliary (redistributing state funds to units in same ratio impacted to be net 0)
* Finance & Administration “bought down” phone rate one more year ($7 vs. $8)
* [FY16 Projects Review](https://docs.google.com/spreadsheets/d/1UGnRgHOGyztuUkkjjdKf9bvzx3k5RIOSfk6J-fUBBXM/edit#gid=0)

**Unified Communications**

* UNCG and App State Updates
* VG350 Update -- Centrex Replacement
* Cisco Licensing -- ELA (Enterprise Licensing Agreement)
* MySoft Replacement
* Expressway / Jabber & Cisco video endpoint registration

## Wireless

* In design – Talley phase 2
* Test bed in Hillsborough Bldg.
* Residence Hall full wireless – summers of 2016 and 2017
* EDUROAM (secure SSID )
  + Goal is to eventually transition as many stakeholders as possible to use this SSID
* Proactive monitoring of over saturated 11n AP’s.

### 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 – September 3, 2015 - AFTC 106