# Communication Technologies Advisory Group

# August 6, 2015

# **Welcome**

Will Brockelsby, Ed Rogers, VJ Tailor, Emily Lynema, Donna Barrett, Andy Raynor, Alan Galloway, David Ladrie, Keith Boswell, Josh Jury, Shawn Dunning, Kevin Lee, Greg Sparks, Greg James, Josh Gira

Greg talked briefly about the new organizational changes in OIT and shared the new o-chart.

## 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 (recabling, etc)
* CFL, DH Hill, (will start in Fall) Cox (by Christmas) 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 (NMDF will be done first)

**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- (will upgrade software on Nexus)

**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

Greg asked for feedback from the IT Community Event

**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-

Call Center System upgrade

Data Feeds, com systems data integrated with billing system

Finalizing operating agreement with rollout to ramp up in January

We will provide design and engineering,

Business process guidance

Help coordinating transition from ATT Centrex to Cisco Communications Manager

* VG350 Update -- Centrex Replacement-

Centrex Replacement

Completed POC and design and we’re coordinating with Public Safety on next step

Ed is working on physical layer design

Looking to start at NMDF (Winston)

* Cisco Licensing -- ELA (Enterprise Licensing Agreement) Completed agreement — licensed through July 2020
* MySoft Replacement-RFP has been posted and will close on Aug 13

No proposals yet, but received a few pages of questions this morning

* Expressway / Jabber & Cisco video endpoint registration

Working through system changes and configuration

Planning to have 2 of our end points on the system sometime this month

## 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