# Communication Technologies Advisory Group

# Agenda

# May 14, 2015

# **Welcome**

## CATV - Transition to Academic/Admin complete - plug to be pulled June 30.

**MDFs**

* CMDF/WMDF-new HVAC systems complete
* NMDF - Strategic planning in progress
* WMDF – equipment transition, final room upgrades in progress

**Infrastructure Records**

* Outside plant fiber inventory in planning
* Wireless maps development in progress (71 buildings loaded) – public interface in planning
* 241 buildings (41,000 outlets) in PLA ground.

**Building Infrastructure Projects**

* Research 4 in design, Lee/Bagwell under construction
* FY15/16 list - MRC, Cox, DH Hill, CVM Main, Daniels - approved?

**UPS -** This year’s replacements have been completed.

**Campus Backbone**

* MCNC DWDM Optical Node moving from HMDF to SMDF Saturday 5/16 at 12:01am
* PMDF network management VLAN moved to firewalled MPLS L3VPN on 5/13. CMDF network management VLAN moving on 5/20. Other MDFs on 5/27.
* IOS upgrades required this Summer
* Moving equipment from 2-post racks to 4-post cabinets in CMDF and WMDF over the Summer and into the Fall. Continuing to migrate equipment from HMDF to SMDF.
* Fiber backbone extension – cutovers starting on 5/16 with optical node move, others will continue over the Summer and into the Fall/Winter.
* Installing IPS/IDS environment for PCI MPLS L3VPNs and other selected networks this Summer
* Finalizing a significant portion of the centralized services infrastructure at SMDF and CMDF
* Implementing an interim plan to provide ResNet with additional bandwidth this Summer.
* Looking into future WAN connectivity options to NCREN (Nx10G vs 100G)

**Data Center**

* Tentatively scheduled extended maintenance 9/19/2015 - 9/20/2015
* Attempting to find a window this Summer starting at 1:00 AM on a Sunday to perform access layer code upgrades within DC1 and DC2.

**Access Layer**

* Building upgrades “CALA Lite” - FY14/15 projects - all designs complete except for Venture II, Nelson, Textiles (in progress)
* Faulty 3rd party transceivers have been replaced.
* IOS upgrades this Summer within the access layer

**Bluelights -** Working on comprehensive long-term plan

**Cellular/mobile** – Verizon/Spidercloud pilot - meetings ongoing

**Budget**

* Will be moving to FTE-based model for 15/16 and converting to auxiliary (redistributing state funds to units in same ratio impacted to be net 0)

**Unified Communications**

* UNCG and App State Updates
* Update on SIP trunks
* Centrex retirement in 2016/2018
* VG350 Update
* Cisco Licensing
  + -- ELA (Enterprise Licensing Agreement)
  + -- VCS (Video Communications Server)
  + -- CER (Cisco Emergency Responder)
* MySoft Replacement

## Wireless

* HP purchase of Aruba - HP moving layer 2 switching into the Aruba management structure
* In design – Talley phase 2
* Test bed in Hillsborough Bldg.
* Residence Hall full wireless – planning in progress for deployment 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.
* Other project requests?

### 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 – TBD (6/25?)