# Infrastructure Technologies Advisory Group

Notes

# December 6, 2018

# **Present:** Ed, Josh J, Chris A, Keith, David, Greg S, Debbie, Josh G, Eric, Mark, Shawn, Pat, Jill (phone)

# **Welcome**

Reminder: Google group… [group-intag@ncsu.edu](mailto:group-intag@ncsu.edu)

**Staffing Update**

* NOC Manager position (reporting to Kristina) - Evaluating resumes

**JEMS (Jack Exemption Management System) Decommissioning**

* Draft note going to NAG (already shared with CITD for comment) highlighting process consistent with discussion our last meeting:

**CATV**

* All contract obstacles between NCSU and Spectrum cleared (maybe)

**MDFs**

* NMDF (Poe) - Awaiting proposal from designer for elec/mech upgrade.
* Poe. No date yet for push to remove non-ComTech equipment but will be after processes are in place for hosting non-OIT equipment in DC2/EDC
* Lake Wheeler MDF - Awaiting proposal from designer for study

**Infrastructure Records**

* Fiber inventory in progress - OSP cables only (66% complete)

**Building Infrastructure Projects**

* In construction: CVM Main, Dabney, Brooks, CMAST, Butler
* In design: Lambda Chi Alpha, Weaver Labs, Patterson, Research 3, Polk

**Campus Network**

* Centrex Replacement NMDF, SMDF zones (construction)
* Backbone updates - Investigating requirements and implementation standards
* VPN decision made - Working with NWN to do configuration and installation of production boxes
  + Client testing going on now within OIT- expect to implement in February
  + Full tunnel will likely not roll out day 1 as processes are refined
  + Implementing DUO 2-factor at go-live
* Infoblox after-action meeting is next week
* AFTC infrastructure lab expansion/upgrade - construction in progress.
* Redundant fiber entrances - SMDF zone - design in progress
* I-440 widening project
* New ISP contract for non-University tenants - RFP bid open Jan. 10

**Access Layer**

* Big Layer Two (BLT) project designs - 45/47 academic buildings (96%), 21/51 admin buildings (41%) - Target date for completion: summer 2019
* PCI - waiting on new Pen test results

**Data Center**

* DC1 Decommissioning
  + First round of equipment for testing is operational
  + The target date for completion December 22, 2019
* Interior Layer 1 (fiber) standard - RFI responses under review
* Intake processes being refined

**Cellular/mobile**

* Indoor - Spidercloud - 6 buildings - construction kickoff 12/18. List: [SpiderCloud](https://docs.google.com/spreadsheets/d/16ZpdmpP7JNH1_P2tvzCISjmNXMzE-VyaEY1KrZv3uPc/edit?usp=sharing)

**IT Strategic Planning**

* Service Planning
  + CMDB - discovery process is ramping up
  + CMDB implementation underway - team identified to scope out change management initiative for move into ServiceNow

**Unified Communications**

* Partner Updates: UNCG, App State, NC A&T, Pembroke
  + Call Center Upgrades -- Web UI for Agents (Finesse)
* Life Safety planning

**Systems & Development**

* Tools Updates
  + EPIC -- live
  + Port deactivation tool
  + PLA Ground -- refresh
  + NetDisco2

## Wireless

* Classroom wireless
  + [Classroom Coverage](https://docs.google.com/spreadsheets/d/1EM_YfPCHXV7BNHRdlUaj0_x6E75tMZblSppfhlmfJgQ/edit#gid=2136708155) - current list
  + 7 out of 237 110-classrooms remain - all by Jan.
  + Future: need to begin discussion on 210 classrooms funding
* Stafford Commons/Wolf Plaza - kickoff meeting 12/17
* Beacon focus group - scheduled next meeting for 2/27/19 3pm AFTC 106
* EDUROAM (secure SSID) -
  + Working on SecureW2 documentation, collaborating with Walk-in Center and Help Desk
  + The goal is to eventually transition as many stakeholders as possible to use this SSID
    - Eduroam use - see monthly metrics link below
* Now tracking wireless metrics as part of overall [monthly metrics](https://oit.ncsu.edu/campus-it/campus-data-network/communication-technologies-metrics/)

**Storage Infrastructure**

* Gary Li/Aaron Peeler visiting with various units to discuss current storage offerings and gather input on those and potential gaps
* Data Domain upgrade completed and temporary software data domain nearly drained, retiring Avamar grid, VM backups going to data domain
* EMC 7600 arrays reaching end of warranty period, plan is to move them to 3rd party hardware only support and replace them with new Unity arrays (DC2 array was purchased last FY, needs an expansion to fully replace DC2 7600)
* AuriStor transition has resumed after a few pauses for bug fixes and Infoblox implementation

**Server Infrastructure**

* Solaris retirement making good progress
  + 4 of 6 M5s retired - remaining two supporting SAR (one production, one for a parts donor)
  + Handful of T series left, working on cleaning up the last few apps using those
* HCI infrastructure testing underway at EDC

**Software Infrastructure**

* VMware license - joining UNC SO agreement - metered use, annual payment instead of 3-year agreements - need to decide how to handle FY2018-19 license renewal (current license ends ~March)
* Java (JDK) license - discussions with Oracle have revealed that Oracle doesn’t have a plan yet

### Governance Revamp

### Working through membership roster for top-level committee and the tier below

### Still need to figure out future of ITSAC-I and any relationship to this group

* + Quarterly?? More of a ComEx?

**Budget**

* Chasing one-time funds for servers, storage, data center move expenses

### 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” – 4/5/18 conversation confirms there’s still some need for “flat” networks (even outside the data center)

## Upcoming Meeting Dates

* Next InTAG Meeting – February 7, 2019 (canceling January meeting)