March 4, 2013
Connectivity Committee Meeting
MINUTES

Network Services – Ed Anderson (SCS)

LV SA Office Move – Cox Dark Fiber Service – Ed Anderson (SCS)
The Las Vegas System Administration Office move is scheduled for Friday, March 14. The Cox fiber has been terminated and will be spliced Thursday or Friday. The offices will be moved over the weekend.

LV SA Office Move – Microwave Data Service Backup – Ed Anderson (SCS)
The microwave data service backup is moving ahead.

LV SA Office Move – LV SA Office Wireless Network – Ed Anderson (SCS)
The wireless network is also moving ahead.

LV SA Office Move – LV SA Office Video Conferencing – Ed Anderson (SCS)
Although lower on the priority list, the smaller conference rooms' video conferencing units will be completed. The brackets and cabling have been installed. The monitors and codex will be installed and tested. The building wiring also needs to be validated and certified.

LV SA Office Move – EPSCoR Voice Service– Ed Anderson (SCS)
The EPSCoR staff remaining at the Flamingo building has been cut over to a separate Cox service. The old fiber connection will be cut as soon as a plan is developed to move it to a separate location on the network.

SCS/SA Building Re-wiring - Reno – Kirk Fitzgerald (SCS)
Kirk reported that re-wiring is nearly finished at System Administration Reno and will cut over on Saturday, March 8.   SCS Reno is due to cut over on Saturday, March 15.

I-80 Corridor Collaboration Project with NDOT – Ed Anderson (SCS)
Ed reported on the status of this project which will move I-80 corridor backbone equipment to more robust facilities with backup generation, better temperature controls and new towers for wireless mountain top shots for EITS/NDOT. The project is finally getting some traction and although NSHE's work will probably not start until May or June, the building of commercial-grade huts and setting of the towers is beginning now. The improvements will provide more reliable service.

Project Queue – Tom Nieva (SCS)
Tom Nieva was not present. Ed Anderson reported that the project queue is down to about 35 projects.

Systems Support Services – Pam Burns (SCS)

Disconnection of the Halon system from the fire circuit was completed. It was not necessary to shut down building power. The Halon tank has been removed from the computer room. Maintenance has been applied to all VIO servers for iNtegrate, bringing them up to current code level. Affecting just SCS and System Administration, the northern file server home drive disks were recently reformatted and expanded. Pam noted that anyone at SCS or SA who runs a custom script on their laptop will need to remap their home drive.

Data Center Operations – Richard Ayala (SCS)

Richard reported on the upgrade to the SCS Las Vegas fire alarm panel (a subproject of the heat pump project) at the December meeting. He thought would be done by the end of 2013, but because the fire marshal has been very busy, phase 1 of the inspection was conducted just last week. The inspection will be completed this week. The panel has passed every test so far, which is unusual for this type of installation, according to the fire marshal.

The bid has gone out on the heat pump project. Contractors' bids are due March 6 and work should begin by the end of March.

SCS is planning to install sensors in the second phase of the Las Vegas building upgrade. Richard has requested recommendations and an estimate from the company which installed the lighting at the new System Administration building.

SCS Las Vegas will be installing a fourth CRAC (computer room air conditioning) unit. There is a concern that CRAC units in the SCS Reno building are aging and Richard will be looking into options for possible replacement.

Client Services – Brian Anzalone (SCS)

Client Services has been preparing to move desktops and phones to the new System Administration building over the weekend.

They have also been preparing for the March 5-6 Board of Regents meeting.

The KACE client was upgraded to K1100 in February. Client Services will be reviewing the two updates and making some improvements to the operational reports.

Clients Services is working on a potential iNtegrate 2 web presence, similar to iNtegrate 1.

Enterprise Licensing and Contracting – Chris Gaub (SCS)

Chris had nothing to report.

System Security – Paul Mudgett (SCS)

Paul reported on a few recent high-profile security breaches including the University of Maryland. This is a good opportunity to take stock of NSHE security practices and processes and

look for ways to improve prevention, detection and response capabilities. SCS is working on this and Paul encouraged all institutions to do the same. SCS is looking at a few initiatives that will require quite a bit of planning, so Paul has nothing to report yet.

Steve Zink added that several regents have contacted him regarding security breaches wanting assurances that NSHE is not in the same position. Steve sent out a communication on each breach but did not distribute widely. Steve will send the messages to SCS.

New Technologies – All

WNC – Douglas Fiber Project – Susan Schoeffler (WNC)
Susan Schoeffler was not able to attend today's meeting and will report next month. Greg Ebner said the fiber to WNC-Douglas has been spliced in but is not yet complete. Ed Anderson recognized Susan for her perseverance in working with multiple agencies on this project.

Ring Central Roll Out – Robert Prior (SCS)
Robert Prior provided the final update for the Ring Central project. The three fax lines for SA Las Vegas have been ported and are working fine with the digital to analog line converters (ATA boxes).   The SCS Reno main fax number (775-789-3700) has not yet been ported. A request will be made to port the four remaining fax numbers at SA Reno. The Ring Central team will now focus on developing training on the advanced features of the system.

SA Las Vegas Access Control System
SCS will manage the access control system for the new SA Las Vegas building. It is the same system and proximity card used at SCS. It is a different instance of the software used by UNLV. Installation of the access control system, along with an alarm system, will occur later this week. Testing will be done once there is connectivity.

Operational Issues/Events – All

UNR Regional Router Core/Firewalls – Jeff Wolff (UNR)
Since 2008 there has been a stable regional router core setup at UNR, but it involved having 18 regional and data center firewalls that were Juniper-based and a maintenance headache. They were not nearly as flexible as UNR's flagship firewall, Palo Alto 5060. UNR decided to buy a second pair of Palo Alto 5060's for their internal network. In order to do this, they are using a new-to-UNR technology, virtual routing forwarding table. There will be several additional security zones in every regional router and a single point of management.
UNR had to replace one-half of their regional routers and buy licensing for the rest of them. Migration is taking place over the next few weeks. Administrative faculty who need to get into more sensitive areas will be moved behind a second set of firewalls for additional protection. It is an important step to protect critical resources from the general population. The user population has exploded with all the new wireless devices used by students sitting on the network. Although this process involves a big learning curve, UNR will have a more flexible network by summer.

Randy Miller (TMCC) added that TMCC has also purchased a pair of Palo Alto 5060's.

Jeff Wolff (UNR) said that Jeff Springer took all of the policies out of all the firewalls and is starting to migrate them. UNR does not have the staff in house to handle this right now as they are also working on a data center migration to a Cisco 7K technology.

Greg Ebner (SCS) asked Jeff Wolff how the power work is going at UNR. Jeff Wolff (UNR) said that nine-ten more regional outages are scheduled for the spring semester. All of the old buildings on the 4 kV system are moving to the 25 kV system. The conversion requires several localized outages and so the campus is suffering through a lot of announced outages to make the transition.

Other

There were no other issues presented.