

June 3, 2014
Connectivity Committee Meeting
MINUTES

Network Services Update – Ed Anderson (SCS)

NDOT ITS Project – Greg Ebner (SCS)

Construction on the ITS project has started along the I-80 corridor. Shelters have been placed in four of the five planned locations. They are working on putting up the monopole antennas and planning on installing the backup generators sometime this month. The network equipment racks will also be placed inside the shelters. NDIT is waiting on Level (3) to coordinate splicing of fiber toward the end of July. The first of the shelters should become operational in mid to late August.

SA LV Office Power Surges – Ed Anderson (SCS)

Ed reported a successful operation of the System Administration Las Vegas audio-visual room, but lately they have experienced overcurrent breaker trips. It may be as simple as a bad circuit breaker. The contractor is trying to ascertain the issues but so far can't find the problem.

Dani Chandler has not yet received a report from CCS following their equipment check on June 2. Rick Romero added that CCS is scheduled to finish remaining work in the room June 9-11. The electricians have tested the circuits and signed off on the electrical. CCS insisted that their equipment looked okay. There were some load issues with the UPS's so they will disburse the load more evenly over the circuits. The power load is maxed on the left side of the rack. They may be moving equipment to the right side. Dani Chandler reported that there are meetings at the new SA LV Office 2-3 times a week already. Stanton reported that other breakers were tripped by employee office -space heaters earlier in the process. SCS experienced difficulty finding breaker locations and accurate drawings. Rick said there were additional office trips this week. CCS tested the main circuit for the AV racks. They couldn't locate the breakers for the offices; labeling was not clear.

Cox/Level (3) Southern Metro Fiber Ring Upgrade – Ed Anderson (SCS)

This project with Via West is on hold at the moment. Level (3) provided a quote on moving one of the existing north/south 10Gbps lines to a different point on the southern metro fiber ring to provide more redundancy. The Cox portion of project proceeded more quickly than expected and the fiber is installed at Via West, waiting for the other end which currently terminates at the Level (3) facility on E. Sahara. Since SCS is in the fourth year of a five year contract, it might be best cost wise to get a fresh bid rather than merely extend the existing contract. SCS will also look for opportunities with other vendors through the bidding process, with the goal of lowering overall pricing.

Silver Peak/Dyer/Goldfield Wireless Upgrade – Greg Ebner (SCS)

SCS is working with a wireless provider in Esmeralda County to provide 10Mbps Ethernet circuit to three, very small towns in Esmeralda County but the commercial service is experiencing ongoing problems in getting the circuits up.

Pahrump 100 Mbps Connection Upgrade – Ed Anderson (SCS)

This connection is scheduled to be live by July 1.

Tonopah 20 Mbps Connection – Greg Ebner (SCS)

Greg did not have an update on this project with WESTNET. They quoted 60 day delivery; it is day 61.

Relationship with CENIC – Ed Anderson (SCS)

A fee is paid annually to connect with CalREN, providing Internet1 and Internet2 in the north, as well as paying for UNR and UNLV Internet2 connection fees and equipment maintenance. There is a new proposal by CENIC that includes a \$25K increase in the annual fixed charge but in turn would in turn eliminate the per Mbps usage charges. Approximately \$50,000 has been paid in per Mbps charges so far this fiscal year so the proposed fee structure would be a better financially for NSHE. Southern commodity Internet will continue to be metered on a per Mb basis by our southern ISP, Switch.

SCS also spoke with CENIC about the development of their network and what that will mean for NSHE. Everything will be 100 Gbps, and pricing is dropping. It won't be long until 100 Gbps is a viable reality. Jeff Wolff (UNR) reported there will be a need for this at UNR in the near future, but they have no formal commitment of money yet. Ed said there has also been discussion at UNLV regarding potential connections with high-level providers.

Project Queue – Tom Nieva (SCS)

Tom reported seven new projects were completed in May, none were cancelled, 49 are in the queue, and two are on hold.

Systems Support Services – Pam Burns (SCS)

Pam Burns is attending the iNtegrate 2 vendor demonstrations, but provided this update:

System Support Services continues to roll out TL9 upgrades for AIX systems. All non-production servers for Shared and UNR have been upgraded. TL9 non-production upgrades are scheduled on June 13th for UNLV. Shared production servers are tentatively scheduled to be upgraded on June 14th and UNLV production is scheduled on June 28. UNR will schedule production upgrades once they have an issue introduced with the latest software release resolved. SCS is working with the Shared instance, UNLV, and UNR instances to complete all reboots by July 1.

Instance-specific shared disk space areas for a software repository between iNtegrate AIX servers have been implemented for testing. System Support Services is working with contacts from UNLV, Shared Instance, and UNR to migrate files and test functionality.

System Support Services continues to work on eliminating direct logins to shared accounts on the iNtegrate systems. Shared accounts have been locked down and UNLV and UNR accounts are being identified in order to start the lock down process.

Data Center Operations – Richard Ayala (SCS)

Nothing to report; Richard Ayala is attending the iNtegrate 2 vendor demonstrations.

Client Services – Brian Anzalone (SCS)

Nothing to report; Brian Anzalone is attending the iNtegrate 2 vendor demonstrations.

Enterprise Licensing and Contracting – Chris Gaub (SCS)

Chris Gaub was not in attendance.

System Security – Paul Mudgett (SCS)

Paul Mudgett was not in attendance.

New Technologies – All

Virtual Routing and Forwarding – Jeff Wolff (UNR)

The University of Nevada, Reno IT implemented VRF (Virtual Routing and Forwarding) on their regional and data center routers. UNR replaced their data center networking equipment with Cisco Nexus 7K/5K/2K equipment. UNR IT also installed Palo Alto 5060 firewalls to provide internal firewall services between internal security zones and VRFs. These upgrades have allowed them to replace about 20 older Juniper firewalls that needed to be retired.

ITB for Network Upgrades – Kirk Fitzgerald (SCS)

Kirk reported that Network Services is still in the ordering stage with regard to Cisco equipment upgrades.

Operational Issues/Events – All

UNR Power Outage Updates – Jeff Wolff (UNR)

Jeff reported that UNR is scheduling power outages during the month of June. They experienced a complete network outage a few weeks before finals. The schedule should be going to SCS Facilities for distribution to all of SCS.

Network Analyst Hire - Tom Nieva (SCS)

Tom introduced new SCS Network Services employee Edwin Marin, a Network Analyst in the WAN group, working out of Las Vegas.

Network Engineer Search – Jeff Wolff (UNR)

UNR will be conducting another round in the search for a third Network Engineer II.

Other

None offered.