Connectivity Meeting
Minutes
March 3, 2015

1. **Network Services Update** – Ed Anderson
   a. *Reno-Tonopah 20 Mbps capacity upgrade (WESTNET)* *(Greg Ebner)*
      This project is on hold for the time being.

   b. *Pershing County School District Capacity upgrade NDOT ITS Project*
      The Radio is installed and operating from the middle school to the new NDOT ITS
      shelter. SCS is waiting for the NDOT shelters along the route to be completed.
      The agreement has been modified to the change in the scope of work since the
      inception of the contract.

   c. *Armagosa/Beatty capacity upgrades*
      The T1s have been turned down and everything is running properly on the
      wireless connection.

   d. *Carson City satellite SA office (Dani Chandler)*
      The office has been fully operational since mid-February.

   e. **100 Gbps Backbone Upgrade** *(Ed Anderson & Stanton Gurr)*
      i. **SCS Phase 1**
         1. **Scope/Timing** – SCS is planning to utilize year-end funds to replace
            the single 10 Gbps backbone research connection out of Reno
            with a 100 Gbps backbone research connection in the north and a
            second 100 Gbps research connection in the south. These
            connections will allow both northern and southern research
            institutions connections directly with Internet2 initially, these
            connections will be 10 Gbps but will be capable of future upgrade
            that will allow to multiple 10/40/100 Gbps research connections
            as the NevadaNet research traffic demand grows. This initial
            backbone upgrade will be in place by 6/30/15.

         2. In order for NevadaNet research entities to take advantage the
            increase in backbone capability, the research entities will need to
            improve their internal capability as well. SCS is collaborating with
            the research entities in the preparation of a multi year NSF grant
            that will help fund the some of the improvements needed at the
            individual institution level. This grant funding, if approved, will
            build out the SCS backbone between Reno and Las Vegas and
            support high speeds for the institutions in the future. This
            includes the provision of science DMZs for each institution and
perhaps a data transfer node based on the need of the research functionality moving forward. SCS will end a long term association with CENIC, disconnecting from them and connecting directly to I-2. As stated, the completion of the first phase of this project is projected for July 1, 2015. Kirk Fitzgerald and Stanton Gurr have started speaking with the different representatives at each institution about this project to discuss both backbone and institutional requirements so that a coordinated and comprehensive implementation plan can be developed. SCS will keep the Connectivity group informed as this series of projects moves forward.

f. Project Queue (Tom Nieva)
   NEW - 6, COMPLETED -14, CANCELED/DELETED – 1, IN QUEUE- 58, ON HOLD – 12

2. iNtegrate 2 Update – (Jim McKinney-Absent)
   No update at this time.

3. Systems Support Services – (Pam Burns)
   a. The hardware upgrades to the new mainframe systems were completed. The DR system was replaced in January and the Production HRMS/Advantage Financial system was completed in February. The operating and product software was also brought up to current levels.
   b. Internal Audit is finishing writing up the audit findings and should have a report to us in the next couple of weeks. System Support Services will notify the appropriate group at each campus with audit findings that need to be addressed at the campus level.
   c. SSS has tested AIX 7.1 on systems and are staging the migration of all AIX Lpars in order to maintain compatibility between AIX and HA. Pam will send more information to the System leads for Shared, UNLV, and UNR within the next few days so SSS may work with you to schedule the AIX migrations and power HA upgrades.
   d. Red Hat has released several critical security patches. SSS has scheduled the application of patches to all Linux systems during the standard patch window on Tuesday, March 10, 2015.

4. Data Center Operations – (Rich Ayala)
   a. The heat pump project is in full swing. Work replacement is scheduled to begin March 10th through the end of March. Installation will take place during the evenings from 5:00pm until 2:00am or up to 7:00am. All of the replaced units will be up and operating before the beginning of the business day so as not to interfere with normal business hours.
b. UNR Facilities Services is working with SCS to replace the existing UPS. Since end-of-year funding is being utilized to fund this project, it must be complete by the end of June. Once the proposed drawings are complete, they will go to the State Public Works Board for review. The next step is for Business Center North to go out for bid and award a contract. Rich will keep all informed of scheduled outages as more information becomes available.

c. Las Vegas has a tentative date of Saturday, June 13th to install a new ATS in the Las Vegas electrical system, which will require a planned outage. It is more cost effective to replace it, rather than find parts for an aged piece of equipment. We are working with stakeholders to determine the best time schedule for this project. However, Rich will keep all informed of available information regarding this project.

d. A power distribution unit (PDU) removal will take place in Las Vegas before the end of June. It will remove old panels from the computer room floor to conserve floor space and add two new wall panels with breaker space for future equipment additions.

e. Annual Spring Cleaning (vacuuming/inspection):
   SCS Las Vegas-March 9th
   SCS Reno-April 9th

5. Client Services – (Brian Anzalone-Absent)
   No updates at this time.

6. Enterprise Licensing and Contracts – (Chris Gaub-Absent)
   No updates at this time.

7. System Security – (Paul Mudgett)
   a. Security has recently seen an increase in copyright infringements. When notices are received, they are sent to the appropriate campus, agency, institution, etc. Please make sure that these notices are handled properly accordingly to procedures in place.
   b. System Security has been engaged in an Egress Filtering Project (an extra measure of protection) in the iNtegrate environment. A recommendation should be complete for the shared environment by end of March.

8. Video Conferencing Service/Network – (Dani Chandler)
   a. Last year there were RMXs converted to new software in Las Vegas. Video Conferencing Service is currently working to convert Reno over to the same. There are about 15-20 Codecs that will not work with this new bridging. Some campuses and units may have to upgrade or be placed on a separate bridge. Also, several Codecs are coming up to end-of-life and notices will be sent out.
   b. Blue Jeans Project Status-During the month of February, Dani met with each of the campuses to discuss Blue Jeans, a video conferencing application that is supported on a variety of devices, such as iPhones, Androids, tablets, and
desktops. During the meetings, the campuses determined who will represent each campus in training for this video conferencing program that will be used to enhance the video conferencing already being utilized. Every campus, and group within the system, would like to participate in testing this product for the next six months. Each campus will have a designated Blue Jeans representative for support in rolling out this latest addition to video conferencing. At the end of the six month trial period, SCS will receive feedback and decide whether or not this is a service that would be beneficial to the institutions.

9. **New Technologies** – All
   a. *Cisco Total Care* – *(Ed Anderson)*
      At this time, it does not appear that Cisco Total Care will be beneficial for NSHE. SCS is currently looking at other solutions.

10. **Operational Issues/Events**

11. **Other**