

FRGP and related updates

CHECO CIO Council

05-Jun-2012

Jeff Custard

Acronym soup

- * Questions and discussions throughout please – and as for acronym soup ingredients, please ask if I miss one or check a decoder page at <http://bit.ly/acronym-soup>

Reviews and updates

- * Regional networking highlights
 - * Front Range GigaPoP (FRGP)
 - * UCAR Point of Presence (UPoP)
 - * Member related news/updates
- * National networking highlights
 - * WRN
 - * Internet2
 - * NLR
 - * The Quilt, Inc.

Front Range GigaPoP (FRGP)

- * 12 Members (USAP went to UPoP)
- * Internal UCAR audit complete
 - * Simplified invoicing structure
 - * Improved interaction and roles with accounting
- * <http://www.frgp.net>
- * Equipment refresh
 - * Deployment under way will migrate FRGP and UPoP members over summer 2012 to new Juniper gear (MX480s replacing Cisco 6509s)

UPoP

- * UCAR Point of Presence
- * <http://upop.ucar.edu>
- * 22 members
- * Continued QMOE connectivity growth
- * Frequent discussions from a variety of groups
- * UIS connectivity changes

NWSC

- * NCAR Wyoming Supercomputing Center
 - * <http://nwsc.ucar.edu/>
 - * Occupied and staffed
 - * Data center switch/routers installed -- access: QFX3500s, core and WAN edge: EX8200 series switch routers
- * Supers in over summer 2012 – Yellowstone
 - * <http://www2.cisl.ucar.edu/resources/yellowstone>
 - * <http://www2.cisl.ucar.edu/resources/yellowstone/hardware>
 - * <http://www2.cisl.ucar.edu/resources/yellowstone/installation-schedule>
 - * <http://www2.cisl.ucar.edu/resources/yellowstone/science>

Internet2

- * US UCAN in progress
 - * 26-Apr-2012 workshop: still working on direction and solutions
- * DYNES
 - * FRGP and UCB in process of hardware delivery and activation
 - * CSU submitted DYNES proposal Spring 2012
 - * <http://www.internet2.edu/ion/dynes.html>
- * SEGP/K-20
 - * [New Colorado Rep](#) – Andrew Wright from EN
 - * [K20 initiative retreat](#) in Boulder August 8-10

Internet2

- * Internet2 Spring member meeting
- * NET+
 - * <http://www.internet2.edu/netplus/>
 - * Cloud, Video, Middleware, InCommon
 - * Lots of partnership announcements
- * CIO and Regional R&E network meeting
 - * See draft summary sent separately
 - * Marla and I would like to work on similar dialog with FMC and CHECO CIO Council
 - * Think about and maybe placeholder for next few meetings/updates?

National LambdaRail (NLR)

- * <http://www.nlr.net>
- * Class B Research and Education Collaboration (CBREC) – ongoing meetings
 - * Resolved transponder issue
 - * NOAA Denver- Seattle wave active on lifetime wave
- * CENIC providing NOC services now
 - * Successfully transitioned in Spring 2012

EAGLE-Net (EN)

- * Educational Access Gateway Learning Environment Network
 - * <http://www.co-eaglenet.net/>
- * On schedule
- * Actively constructing throughout Colorado
- * Switch/router hardware being deployed
- * I25 Denver to Cheyenne fiber build has broken ground
 - * Will tie in Cheyenne and NWSC as part of BiSON
 - * Diverse path
- * Scot Colburn joined as Network Engineer

Colorado Broadband Roundtable

- * Brian Shepherd on staff – new Broadband Program Manager - Governor's Office of Information Technology
- * Strategic plan coming soon from various working committees
 - * Engage local communities
 - * Leverage funding opportunities
 - * Coordination and Collaboration
 - * Adoption and Education
- * Coordination on [USDA Community Connect Grants](#)
- * [SHLB](#) attendance at last meeting in late May-2012
- * Frank Ohrtman, Local Technology Planning Teams work and updates
 - * OIT broadband mapping project updates

Various related

- * N-Wave: up and running; continued connectivity per plans
- * WRN
 - * Ongoing partnership: cost/service sharing (I2, TR/CPS, Level3 Commodity Internet)
 - * Implementing NSF ARI proposal includes wave expansion Seattle/LA, San Antonio-El Paso, Denver-Chicago, ABQ-Santa Rosa-El Paso (via Carlsbad)
- * NSF Network Infrastructure and Engineering Program (CC-NIE)

Various related

- * Colorado Telehealth Network ([CTN](#)):
 - * CenturyLink (CL) continues to operate CTN network
 - * Fully deployed; FCC bridge funding?
 - * EAGLE-Net coordination and new projects
- * SC13 in Denver
 - * Working again on CCC fiber
 - * Working with SLC team on their SC12 experiences
- * [MountainConnect2012](#)
 - * Breckenridge June 10 and 11

The Quilt, Inc.

- * <http://www.thequilt.net>
- * Statenets – overlap with Quilt
 - * Quilt approved a Statenets CEO Roundtable and the chair as voting member of the Executive Committee
 - * Quilt removed itself from fiscal sponsorship for Statenets
- * Quilt approved a third membership category:
 - * There are now three classes of membership: Members, Associates, and Affiliates (added)
- * Working groups, coordination on several strategic planning efforts including
 - * BTOP progress from members
 - * Telepresence working group
 - * 'above the net' /new service working group
 - * NWAWE contracting working group
 - * CIS RFP 2012 completed
 - * Advocacy workshop

Trends impacting the network

- * SDN/Openflow Mania
 - * <http://www.openflow.org/>
 - * <https://www.opennetworking.org/>
 - * <http://www.internet2.edu/network/ose/>
- * Big Data
 - * e.g., science DMZ approaches
- * Cloud computing (e.g., Internet2 Net+)

Discussion

- * Any follow up questions or feedback on items covered?
- * Other items?

Thank you!