University Corporation for Atmospheric Research (a non-profit company)

UCAR manages, among other things:

- National Center for Atmospheric Research (NCAR)
- Front Range GigaPop (FRGP)
- UCAR Point of Presence (UPoP)
NCAR Supercomputer Center
In Cheyenne, Wyoming
Pending NSF proposal submission
2-3 years out?
Front Range GigaPop

- 16 members currently
- Potential new members pending
  - Inquiries from far and wide
- New potential peering opportunities
Some current FRGP related activities

- “SuperDREAM” test bed
- E-fort connectivity
- Quilt CIS 2008 RFP
- Shared QMOE (DU, UPoP, other FRGP members)
Officially began in May 2007 when UCAR assumed responsibility for secondary members previously behind UCDHSC

UCDHSC provides generous support for this effort, including:

- equipment
- staff assistance
- facilities
Why UCAR?

- History of support for research and education networking
- Education and Outreach mission
- Management, contractual, accounting, and engineering support
- President’s Council support
What is the UPoP?

- A consortium of secondary institutions behind UCAR (from the FRGP point of view):
  - shared WAN services
  - intra-FRGP traffic
  - commodity Internet
  - **Abilene (I2)** and **National LambdaRail (NLR)** access
What does UCAR provide?

- Management and contractual support
- Network Operations Center support
- Engineering support
Current connections

- Auraria Higher Education Center
- Boulder Valley School District
- City of Boulder
- Colorado Mountain College
- Deproduction
- Denver Health and Hospital Authority
- Educational Support Services (UCDHSC ATM video transport only)
- Metropolitan State College of Denver
Connections coming soon

- Centennial Board of Cooperative Educational Services
- City and County of Denver
- Colorado Alliance of Research Libraries
- St. Mary’s Academy
Updated member info

- The current member list is kept up to date on the UPoP Members page.
Connection types

- Ethernet
  - QMOE
  - direct connections
- ATM
- T1
Pricing

- Will vary--depends on number of members and how much they buy
- Request quote for more details
Contracts

- Available on UPoP web page
- Between the non-profit entity and UCAR
Short term futures

- Move to new equipment
  - potential for combined FRGP and UPoP equipment use in some cases
- Additional growth behind CBOCES?
- Additional UPoP members?
Direction discussion for Colorado “K-20” networking?

- “As is” on through…
- Statewide integration futures?
References

- [http://www.ucar.edu](http://www.ucar.edu)
- [http://www.frgp.net](http://www.frgp.net)
- [http://www.thequilt.net](http://www.thequilt.net)
- [http://www.cisl.ucar.edu/nets/upop/](http://www.cisl.ucar.edu/nets/upop/)
- [upop-eng@ucar.edu](mailto:upop-eng@ucar.edu) for more UPoP info or questions
- [acronym decoder](#)