

Network Nebraska Advisory Group

December 5, 2011

Discussing Network Network Nebraska Profiles/Fees for Community Aggregation Projects

BACKGROUND

(N.R.S. 86-5,100) *The Chief Information Officer, in partnership with the University of Nebraska, shall develop and maintain a statewide, multipurpose, high capacity, scalable telecommunications network to be called Network Nebraska. The network shall consist of contractual arrangements with providers to meet the demand of **state agencies, local governments, and educational entities** as defined in section 79-1201.01. Such network shall provide access to a reliable and affordable infrastructure capable of carrying a spectrum of services and applications, including distance education, across the state. The Chief Information Officer shall provide access to each school district, each educational service unit, each community college, each state college, and the University of Nebraska at the earliest feasible date and no later than July 1, 2012. Access may be provided through educational service units or other aggregation points. **Participation in Network Nebraska shall not be required for any educational entity.** The Chief Information Officer shall aggregate demand for those state agencies and educational entities choosing to participate and shall reduce costs for participants whenever feasible. **The Chief Information Officer shall establish a cost structure based on actual costs, including necessary administrative expenses but not including administrative travel or conference expenses, and shall charge participants according to such cost structure.** The Chief Information Officer shall annually provide a detailed report of such costs to each participant and to the Legislative Fiscal Analyst.*

(N.R.S. 79-1201.01 (3)) *Educational entity means a school district, a private, denominational, or parochial school, an educational service unit, a community college, a state college, the University of Nebraska, or a nonprofit private postsecondary educational institution;*

Local government for Nebraska is defined as 93 counties, 446 townships, 531 municipalities, and 254 public school districts. Approximately 1,146 additional "special districts" cover such services as fire protection, housing, natural resources, irrigation, and sewage treatment.

Case Study 1: A municipality (City of Peru) requests the local state college (Peru State College) to help them establish Internet service for the city office computers through Network Nebraska.

- Is the municipality covered by 86-5,100? Yes, the city of Peru is a "local government".
- Infrastructure Options:
 - A) ADSL to a local ISP (not a Network Nebraska Network Nebraska issue)
 - B) SDSL or fiber or copper or wireless directly to the State College (probably a Network Nebraska membership issue)
 - C) 10 Mbps SDSL or fiber or copper or wireless directly to a Network Nebraska aggregation point (definitely a Network Nebraska membership issue)
- Network Nebraska Fee Options for
 - Infrastructure Option B:
 - Pro-rated Participation Fee-- XX% of \$190.21 Participation; XX% of \$101.09 Interregional Transport (Total of \$XXX.XX/month)
 - Discounted Consortium Fee—100% x Entity A's fees + 75% x Entity B's fees [a.k.a. 2 for the price of 1.75]
 - Infrastructure Option C:
 - Full Participation Fee-- \$190.21 Participation; \$101.09 Interregional Transport (\$291.30/month)
 - Pro-rated Participation Fee-- XX% of \$190.21 Participation; XX% of \$101.09 Interregional Transport (Total of \$XXX.XX/month)

Case Study 2: A county government (Buffalo County) and a city government (City of Kearney) request the local ESU (ESU 10) to help them get onto Network Nebraska.

- Is the municipality and county government covered by 86-5,100? Yes, they are both “local governments”.
- Infrastructure Options:
 - A) SDSL or fiber or copper or wireless directly to the education entity (probably a Network Nebraska membership issue)
 - B) Private DSL or fiber or copper directly to a Network Nebraska aggregation point (definitely a Network Nebraska membership issue)
- Network Nebraska Fee Options for
 - Infrastructure Option A:
 - Pro-rated Participation Fee-- XX% of \$190.21 Participation; XX% of \$101.09 Interregional Transport (Total of \$XXX.XX/month)
 - Discounted Consortium Fee—100% x Entity A’s fees + 75% x Entity B’s fees + 75% x Entity C’s fees [a.k.a. 3 for the price of 2.5]
 - Infrastructure Option B:
 - Full Participation Fee-- \$190.21 Participation; \$101.09 Interregional Transport (\$291.30/month)
 - Pro-rated Participation Fee-- XX% of \$190.21 Participation; XX% of \$101.09 Interregional Transport (Total of \$XXX.XX/month)

Case Study 3: A single network organization (Boys Town) comprised of an E-rate eligible, nonpublic school, an E-rate eligible public library, a local government, and a private non-profit health center requests service from Network Nebraska.

- Are the school, library, health center and local government all covered by 86-5,100? The library and city government are both considered “local governments” and the nonpublic school is covered under 79-1201.01, but the private non-profit health center is not covered under statutes.
- Infrastructure Options:
 - A) 100 Mbps fiber directly to a Network Nebraska aggregation point (definitely a Network Nebraska membership issue)
- Network Nebraska Fee Options for
 - Infrastructure Option A:
 - 1 x Full Participation Fee-- \$190.21 Participation; \$31.69 Interregional Transport (\$221.90 per month)
 - 3 x Full Participation Fee-- \$190.21 Participation; \$101.09 or \$31.69 Interregional Transport (\$291.30 or \$221.90 per month)
 - Discounted Consortium Fee—100% x Entity A’s fees + 75% x Entity B’s fees + 75% x Entity C’s fees [a.k.a. 3 for the price of 2.5]

Case Study 4: A community aggregation group (Fremont) comprised of an E-rate eligible, public school (Fremont PS); an E-rate eligible, ESU (ESU 02); and a nonpublic university (Midland University) is considering a high bandwidth aggregation circuit into Network Nebraska that could also serve the municipality (city of Fremont); county government (Dodge County); a county-owned area health center (Fremont Area Medical Center); and an E-rate eligible public library (Fremont Public Library).

- Are all the entities covered under 86-5,100? The library, city, medical center and county governments are all considered “local governments” and the public school, ESU, and nonpublic university are all covered under 79-1201.01.
 - Infrastructure Options:
 - A) 1000+ Mbps fiber directly to a Network Nebraska aggregation point (definitely a Network Nebraska membership issue)
 - Network Nebraska Fee Options for
 - Infrastructure Option A:
 - 7 x Full Participation Fee-- \$190.21 Participation; \$101.09 or \$31.69 Interregional Transport (7 x \$291.30 or \$221.90 per month)
 - Discounted Consortium Fee—100% x Entity A’s fees + 75% x Entity B’s fees + 75% x Entity C’s fees + 75% x Entity D’s fees + 75% x Entity E’s fees + 75% x Entity F’s fees + 75% x Entity G’s fees [a.k.a. 7 for the price of 5.5]
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Case Study 5: A community aggregation group (Hartington) comprised of an E-rate eligible, public school (Hartington PS); an E-rate eligible, nonpublic high school (Hartington Cedar Catholic School), and a nonpublic elementary school (Holy Trinity Elementary) are considering forming an educational consortium for the purposes of filing E-rate and sharing the costs of a high bandwidth aggregation circuit into Network Nebraska.

- Are all the entities covered under 86-5,100? The public school and nonpublic schools are covered under 79-1201.01.
- Infrastructure Options:
 - A) 40+ Mbps fiber directly to a Network Nebraska aggregation point (probably a Network Nebraska membership issue)
 - B) One 40 Mbps and one 10 Mbps fiber directly to a Network Nebraska aggregation point (definitely a Network Nebraska membership issue)
- Network Nebraska Fee Options for
 - Infrastructure Option A:
 - 1 x Full Participation Fee-- \$190.21 Participation; \$31.69 Interregional Transport (1 x \$221.90/month)
 - 3 x Full Participation Fee-- \$190.21 Participation; \$31.69 Interregional Transport (3 x \$221.90/month)
 - Discounted Consortium Fee—100% x Entity A’s fees + 75% x Entity B’s fees + 75% x Entity C’s fees [a.k.a. 3 for the price of 2.5]
 - Infrastructure Option B:
 - 1 x Full Participation Fee-- \$190.21 Participation; \$31.69 Interregional Transport (1 x \$221.90/month)
 - 2 x Full Participation Fee-- \$190.21 Participation; \$31.69 Interregional Transport (2 x \$221.90/month)
 - 3 x Full Participation Fee-- \$190.21 Participation; \$31.69 Interregional Transport (3 x \$221.90/month)
 - Discounted Consortium Fee—100% x Entity A’s fees + 75% x Entity B’s fees + 75% x Entity C’s fees [a.k.a. 3 for the price of 2.5]