

Ring of Nations Conceptual Drawing






Ring of Nations

The Backbone

- Backbone Rings shown for illustrative purposes only. Rings to be finalized once tribal members are known
- Backbone paths will be in the form of rings, so that self healing optical rings can be built on the fiber. Connections between rings will be duplicate so there are no single points of failure
- Tribal Drop points and Ring Connection points will be considered part of the backbone. The tribal rings, the tribal fiber drops and the local fiber rings will be owned and controlled by each individual tribe
- The Backbone rings and all optronics associated with the backbone will be owned and operated by the consortium formed for that purpose
- KDL Incorporated or one of its affiliates will receive ownership of something less than half of the total fibers that are constructed in exchange for engineering and constructing the ring and maintaining the fiber strands as long as they are in use. The consortium will own the sheath and all buildings associated with the building of this ring.
- Funding for the initial backbone will come from the stimulus package money. Ongoing revenue will come from the individual tribes and their subscription to the services that the backbone consortium will provide. Those services will include, but not be limited to long distance telephone service, internet access, and video content. The backbone consortium will act as a long distance telephone company and as such will be free to connect to any tribal entity or any government entity that it chooses.
- The services on this network are envisioned to be traditional transport services (DS3, OC-03 thru OC-192) as well as ethernet transport services. It is envisioned that the network will also require some layer three functionality (routing) for delivery of internet access. The backbone consortium will also want to set itself up as an internet access provider and will want to offer DNS services and perhaps even content filtering and other services that are provided by large internet providers. There are opportunities here for many high tech jobs which have traditionally paid above average salaries.
- Data centers and video head ends should be considered for this backbone consortium. There should at least be two of each for redundancy and these can be put on reservations where the jobs that these services provide can be offered to the Native Americans first.
- The backbone consortium will need to structure itself as a long distance carrier with most of its customers being the Native American Tribes who will form a telephone companies as part of the Ring of Nations Network. Revenue to build the network (including fiber and electronics) will come from the stimulus package.
- There will be many opportunities for job creation. This network will have to be monitored for problems (either in house or outsourced), there will have to be a sales and marketing team, there will have to be a provisioning team, there will have to be an engineering team for all phases of this network (transport, internet and video) and all of this will have to be managed.

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Typical Tribal Ring

-  Typical Small Business or Residence requiring <math>< 3\text{Mb/s}</math>
-  Community Buildings, Schools, Hospitals, Larger Businesses requiring >3 Mb/s
-  Wireless Transmitter connected to the fiber backbone transmitting Voice Video and Data to Residence and Small Business and anyone with a laptop.

