

# Maintain critical stand alone switching while moving to next generation services.

## Nemont Telephone Cooperative

### Background

Nemont Telephone Cooperative (Nemont), together with its subsidiaries, offers telephone service to nearly 29,000 residential and business access lines in Northeastern Montana and neighboring areas of North Dakota. Nemont, which ranks among the 50 largest local exchange carriers in the United States, has one of the nation's most technologically advanced networks for offering telephone service and high-speed internet access over copper and, in many places, fiber-to-the-home (FTTH) facilities. To learn more about Nemont, visit [www.nemont.net](http://www.nemont.net).

### The Problem

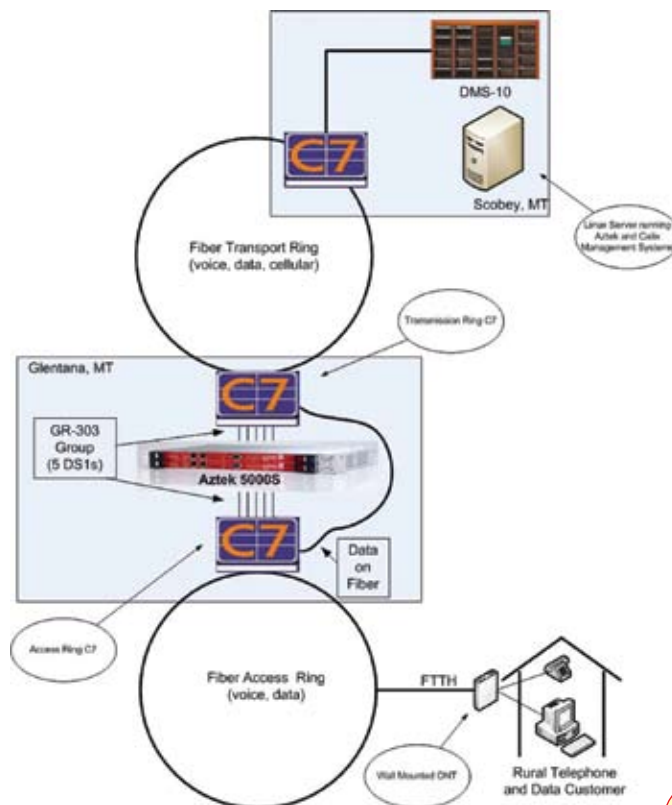
Legacy remote switches didn't support Nemont's FTTH architecture, but the remote communities that Nemont serves still needed stand alone capability in the event of a network outage.

### The Benefit

**Nemont is able to give their subscribers cutting edge services while protecting their communities from service disruptions.**

### The Solution

Nemont chose the Calix C7 for fiber transport and FTTH access capabilities. Nemont selected the 5000S from Aztek Networks to provide the vital ESA voice switching functionality in the remote central offices. In these implementations, the access-configured C7 separates the voice connections in the form of GR-303 DS1 links, which are monitored by the Aztek 5000S. These DS1 links are connected to a C7 for fiber transport back to the DMS-10 in the Scooby Central Office. Any disruption in service to the Central Office, either due to construction or natural disaster, will result in the Aztek 5000S automatically assuming call control functions for all subscribers in the serving area. These subscribers can be assured of local phone service and access to local emergency services until the link to the DMS-10 is restored.



**Aztek Networks, Inc.**  
 2477 55th Street, Suite 202  
 Boulder, CO 80301-2835 USA  
 303.786.9100  
[aztekinfo@azteknetworks.com](mailto:aztekinfo@azteknetworks.com)

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