



Sho-Me Technologies

Based in Marshfield Missouri, Sho-Me Technologies is the fiber optics subsidiary of Sho-Me Power Electric Cooperative, a large midwestern utility cooperative in the USA. Sho-Me provides key connectivity in the state of Missouri as part of the Cooperatives' Broadband Network, a consortium of twenty different utility company members.

BUSINESS ISSUE

As a result of significant business expansion, Sho-Me needed to add capacity to its OC-48 network. In addition to seeking the most cost-effective solution, Sho-Me required wavelength switching for supporting its high-speed wholesale business. As well, Sho-Me desired a platform that would deliver operational simplicity and savings to its backbone network.

The initial network build would connect five central offices across the state of Missouri.

MERITON SOLUTION

Sho-Me evaluated various Wavelength Division Multiplexing (WDM) solutions and selected the Meriton High-Speed Metro-regional (HSM) services architecture.

Figure 1: Sho-Me's Regional DWDM Backbone Network

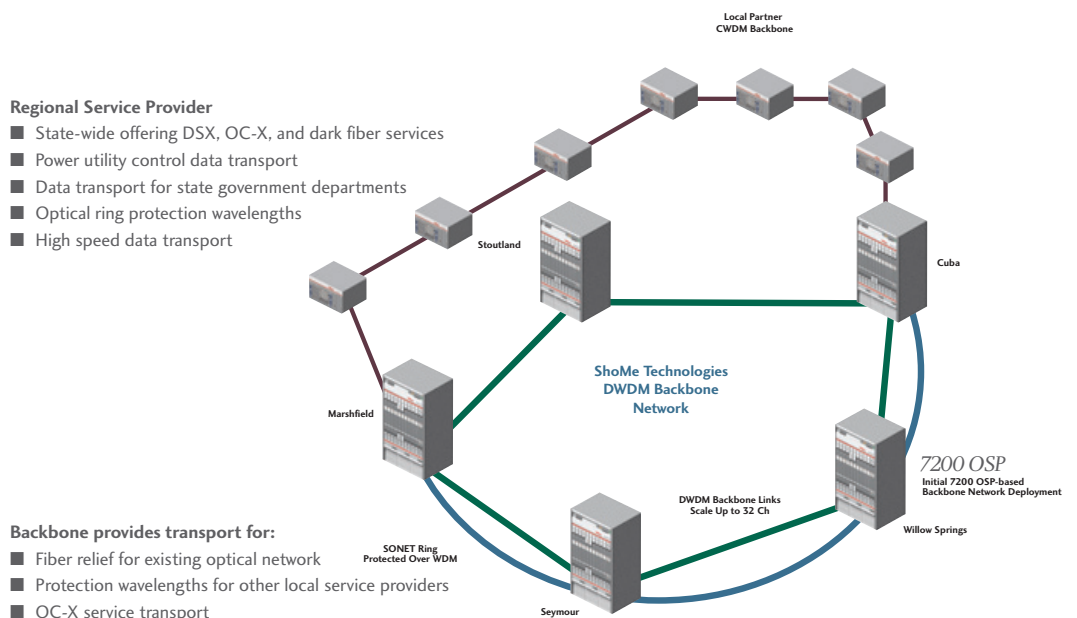
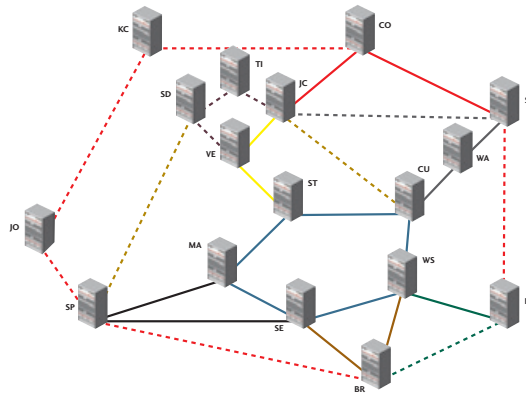


Figure 2: Sho-Me's DWDM Network is forecast to grow to 17 metro nodes by 2008



MF – Marshfield, ST – Stoutland, CU – Cuba, WS – Willow Springs, SY – Seymour, SF – Springfield, BR – Branson, VS – Versailles, JC – Jefferson City, CO – Columbia, NM – New Madrid, SL – St. Louis, KC – Kansas City, WA – Washington, DR – Darien, JP – Joplin, TP – Tipton, SD – Sedalia

The Meriton solution comprised 7200 OSPs, 1450 OFAs, 8600 NMS and 8300 EMS. Also note that while the initial configuration was for 8 wavelengths on the network side, the total network is 32-channel ready. Almost 40% of the cost of the total solution is in amplifiers and DCMs, so the network can expand to 32 wavelengths as required with small incremental costs going forward, just by adding optical interface cards to existing systems.

Sho-Me's network is also used to provide protection wavelength transport for another joint Meriton Sho-Me Technologies customer, Fidelity Communications.

BENEFITS

- Cost-effective – 7200 OSP provides twice the capacity of an OC-192 upgrade for no extra cost
- OPEX savings – Integrated Wavelength Switching and Transmission enables Sho-Me to do moves, adds and changes easily, without service outages. Delivers true networking capability that enables fast, flexible and reliable provisioning of high-speed services
- Operational Simplicity – Meriton's AON architecture provides a transparent, scalable network infrastructure that simplifies Sho-Me's optical network.

TESTIMONIAL

“As a result of our strong growth over the last six years, fiber exhaust was an issue, and it was clear that to add capacity to our network, the use of DWDM offered the most utility for the least investment,” said Kevin Hopper, Manager of Operations and Engineering for Sho-Me Power. “Of all the DWDM options we explored, none came close to the Meriton AON architecture for cost-effectively meeting our switching, capacity and maintenance needs.”



ABOUT MERITON NETWORKS INC.

Meriton Networks Inc. has developed the industry's first unified end-to-end Agile Optical Networking (AON) architecture, a crucial element for carrier and enterprise migration to next-generation IP services networks. A flexible, scalable, future proof infrastructure capable of multi-service, multi-topology support, the Meriton AON architecture equips telecommunications networks with the capabilities needed for the Broadband Revolution, including rapid service deployment with one-time node engineering and zero-touch, automated provisioning under a unified control plane. With metro access, metro core and regional extension products, all fully managed by a best-in-class suite of network planning and management tools, Meriton Networks gives network operators a single source for the rapid, cost-effective delivery of high-speed services.

www.meriton.com
info@meriton.com

<p>Corporate Headquarters 309 Legget Drive, Suite 300 Ottawa, ON, Canada K2K 3A3 T: +1.613.270.9279 F: +1.613.270.9628 Toll Free: +1.866.270.2007</p>	<p>United States 20 Corporate Place S. Piscataway, NJ 08854 T: +1.732.465.1000 F: +1.732.465.1010</p>	<p>Europe Regus House 1 Friary Temple Quay Bristol, BS1 6EA UK T: +44.(0)117.344.5028 F: +44.(0)117.344.5208</p>	<p>Asia Pacific 20th Floor, Central Tower 28 Queen's Road Central Hong Kong T: +852.2150.1328 F: +852.2159.9688</p>	<p>POSCO Center Building West Tower 11th Floor 892 Daechi 4-dong, Kangnam-gu Seoul 135-777 South Korea T: +82.2.559.0695 F: +82.2.559.0700</p>	<p>Caribbean and Latin America 6228 Indian Meadow S. Orlando, FL 32819 T: +1.407.924.5666 F: +1.613.270.9628</p>
--	--	---	--	---	---

Meriton and the Meriton Networks logo are registered trademarks of Meriton Networks Inc. MeritonCare, IVFN, Out-of-the-box WDM and ADM-on-a-Wavelength are trademarks of Meriton Networks Inc. Other trademarks that may be used in this document are property of their respective owners. Technical specifications may change.