



Telecom Ottawa

Telecom Ottawa is a network services provider based in Ottawa with operations throughout Eastern Ontario. The company owns and operates the largest 10 Gigabit metropolitan-wide network in North America, with more than 1,000 kilometers of fiber optic cable. This broadband infrastructure enables the provision of bandwidth capacity for data networking, high-speed Internet access, e-business applications and multimedia services. In providing services to businesses and public sector organizations, Telecom Ottawa also offers an extensive portfolio of products and services such as email, web hosting, data backup and recovery and voice-over-IP.

BUSINESS ISSUE

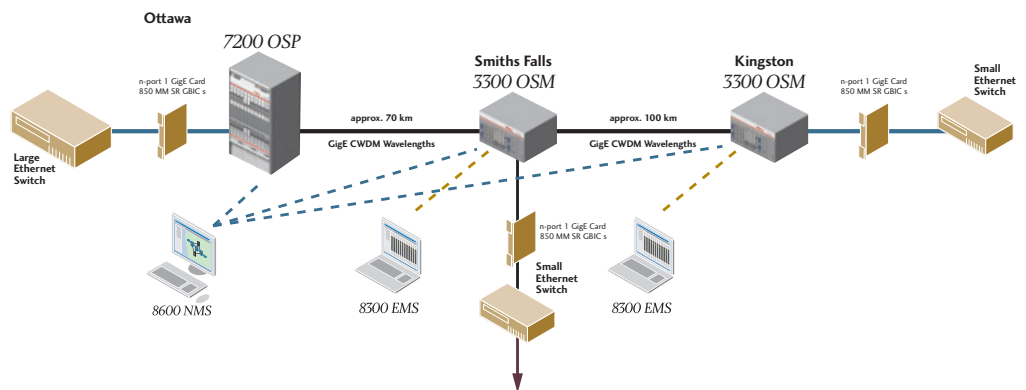
Through its impressive business development efforts, Telecom Ottawa secured a number of new customers who required Ethernet services in a regional area outside of Telecom Ottawa's primary network. The capacity needed for these customers was greater than 1 Gig E, but less than 10 Gig E. The final network complication was that the distances between sites, approximately 70 km and 100+ km, were beyond the reach of 10 Gig Ethernet optical transceivers, without costly amplification and dispersion compensation.

To serve these customers, Telecom Ottawa had three options:

- Acquire additional fiber
- Use amplifiers and dispersion compensation to extend the reach of 10 Gig E optics
- Use WDM to transport multiple Gig E services

Telecom Ottawa quickly eliminated the first option because it was prohibitively expensive. The 10 Gig E option provided more capacity than what was needed, and it was 20% more expensive than a WDM solution from Meriton.

Figure 1: Regional CWDM network to deliver Ethernet services

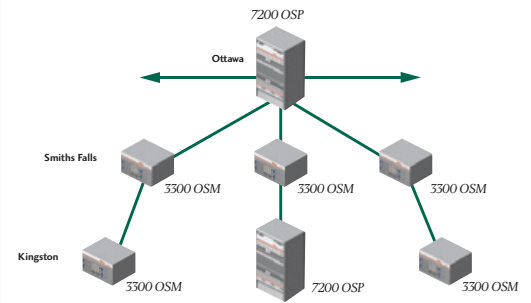


MERITON SOLUTION

Telecom Ottawa deployed the complete Meriton architecture to expand its reach into new metropolitan areas, comprising

- 7200 OSP, metro core wavelength networking systems
- 3300 OSM, metro access devices
- 8600 NMS, network management systems
- 8300 EMS, element management systems

The primary central office in Ottawa houses the 7200 OSP and a large Ethernet switch. Using CWDM, Gig E is transported 70 km away to a re-gen site. The remaining CWDM link is more than 100 km away, and Meriton's long-reach CWDM pluggable optics can span that distance without re-gen, amplification, or a need for dispersion compensation.



Continue to add sites as driven by demand, toward a resilient, mesh, switched architecture.

Figure 2: Multi-degree capabilities of the 7200 OSP allow Telecom Ottawa to transform their network into an efficient mesh architecture

BENEFITS

- Affordable; Cost savings of approximately 20% over the 10GigE solution
- Growth; Telecom Ottawa can add GigE wavelengths incrementally as required, instead of 10 GigE from day one
- Cost-effective regional support; Using lower cost CWDM optics instead of 10GigE transceivers, DWDM optics, C-Band amplifiers, and dispersion compensation; Meriton's CWDM optics drive regional distances of 100 km or more
- Scalable; In-service upgradeable to 10 Gb/s, 20 Gb/s, or as much as 320 Gb/s per segment
- Network Design Flexibility: Use of the Meriton 7200 OSP in the Ottawa location with multiple-degree WDM interface support makes future mesh network expansion, non-service affecting, and simple to engineer
- Use Meriton switching to add additional segments in-service as required in future; Switching avoids unnecessary additional costs of back-to-back boxes in Ottawa as other routes are added

TESTIMONIAL

“By deploying Meriton's AON architecture, we are able to tie together our regional networks, add new wavelength services to our metro product offering and increase capacity in critical cross sections,” said Dave Dobbin, Telecom Ottawa's former operating officer. “We are now better positioned to provide affordable access to our bandwidth across Eastern Ontario.”



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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.

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