

Japan ISP Leverages Ribbon Optical for 100G DCI

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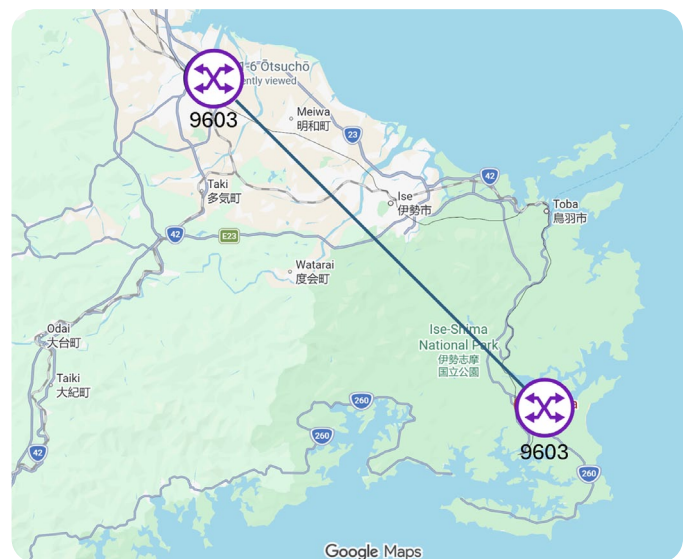
Vertical: Cable TV/ Broadband ISP Provider
Region: Japan
Solution: 100G DCI using Ribbon Apollo 9603/9901

Challenge

Matsusaka Cable Television Station Co., Ltd. (MCTV), established in 1990, has been a longstanding provider of cable TV and broadband internet services, reaching approximately 70% of households in its service area since 1991. Recognized for its high level of cable television penetration, Mie Prefecture achieved full cable network coverage across all cities and towns by April 2003. In addition, interconnected networks among cable operators support communications for public-sector and other institutions. In 1999, MCTV recognized the growing demand for broadband internet access among its subscribers. To address this need, MCTV launched high-speed broadband services to its subscribers. Through this initiative, Matsusaka is committed to bridging the digital divide in its communities and empowering its subscribers with reliable and efficient internet connectivity. To ensure reliable and scalable networking capabilities, MCTV needed a scalable DCI solution to connect their head-end location to their local Shima Service Center site to aggregate multiple GbE and 10GE traffic to 100G protected and Bi-directional DCI links.

Solution

To ensure reliable and scalable networking capabilities, MCTV selected a network solution from Ribbon Communications. After thorough evaluation, the company opted for Ribbon's Apollo 9603 and 9901, known for its exceptional performance in aggregating 1 GbE and 10GbE to 100Gb DCI connectivity. This state-of-the-art optical networking platform delivers high-performance, cost effective, and robust head-end to access optical networking solutions meeting the demanding needs of MCTV's network infrastructure. With this cutting-edge technology in place, MCTV can confidently support its growing broadband internet operations without any compromise on performance or stability. The decision to partner with Ribbon Communications reflects its commitment to providing its members with a dependable and scalable network that can keep up with their evolving needs. In this project, support for the design, construction, and implementation was provided by our partner, Uniadex Co., Ltd.



Matsusaka CATV Network Configuration

MCTV has leveraged this scalable optical aggregation network to improve service delivery and network scalability. The network was built to be highly scalable, capable of aggregating multiple 1 GbE and 10GbE services that are required today and any advanced applications that may arise in the future. This investment will support a better customer experience while enabling MCTV to keep pace with ongoing technological advancements.

Benefits to Matsusaka CATV of Ribbon's Apollo 9603/9901 for DCI:

- 100G bi-directional application on a single fiber in a compact footprint
- For MCTV's head-end location, the Apollo 9603 delivers a compact, high-density optical platform that delivers low cost per bit at the edge while supporting scalable 400G/800G growth. Its modular, open architecture enables right-sized deployments, multi-service consolidation, and seamless integration into disaggregated networks—reducing cost, complexity, and future upgrade risk.
- Short lead time for both equipment delivery and installation & commissioning which is key in today's optical supply chain constrained environment.

Contact Us

Contact us to learn more about Ribbon solutions.