



# Case Study:

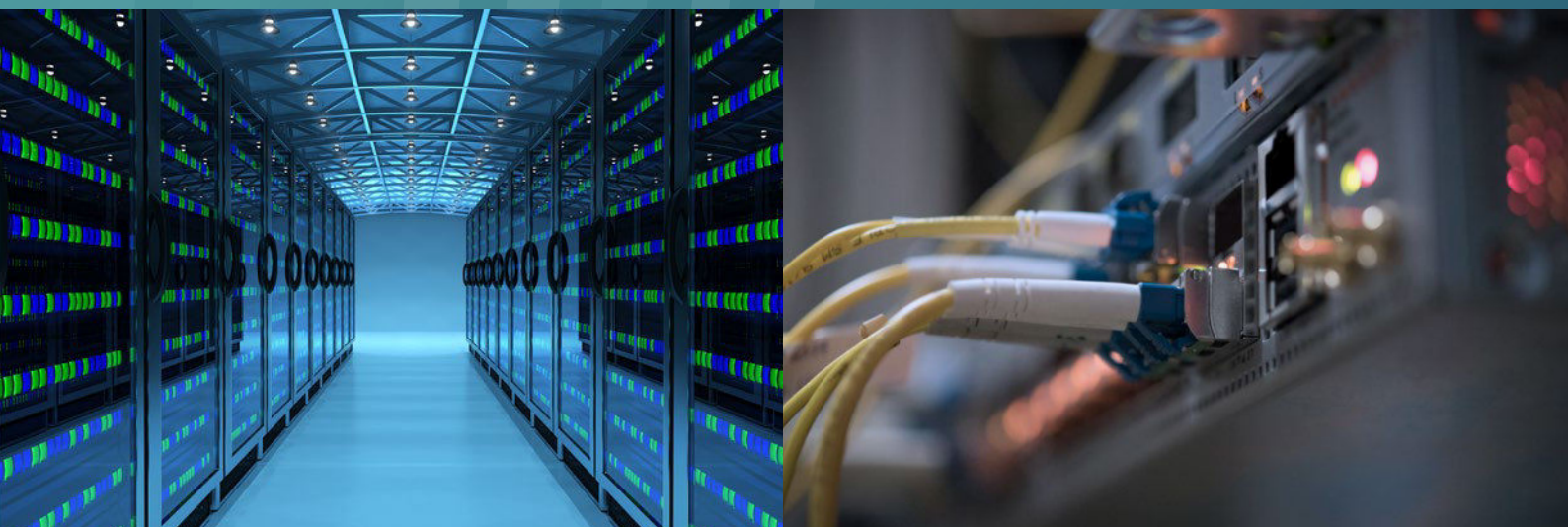
## DATA CENTER

## Introduction

We live in a highly connected world. Wireless devices are embedded in our lives and users have come to expect ubiquitous connectivity. Organizations, companies and individuals are both consuming and producing content at rates that we've never seen before, and those rates are increasing. Having rich content available to consume or to stream live for friends on social media networks has become the norm.

Much of the last mile of connectivity is made through wireless connections, but the primary infrastructure for telecom transport remains in the optical domain. Fiber Optics, and specifically Dense Wavelength Division Multiplexing (DWDM) continues to grow as the best way to cost effectively move massive data across the country, and around the world.

Where does ACP fit within Telecom transport? ACP has been providing numerous solutions into the telecom market since the DWDM market started to explode in the late 90's. Today, ACP continues to serve the market with a number of niche components as well as modules, such as DWDM Mux / Demux solutions, Optical Add drops for the management of wavelengths into and out of the transport fibers. Protection switching and EDFA / Amplification are additional solutions that ACP can provide on either a standard or custom product offering to support specific application needs.



## ACP in action

ACP has served the telecom industry with high quality, high performance products for decades. In point to point applications, ACP has been able to design, develop and deliver custom / targeted solutions for DWDM Mux/Demux, based on customer channel plan and specifications. While dynamic (ROADM-Based) networks offer the utmost in flexibility, ACP fixed WDM solutions can offer excellent performance in terms of minimum link/terminal loss and can be delivered at a small fraction of the cost of dynamic networks.



While dynamic networks solve many issues in complex networks where bandwidth needs are changing, and moving... ACP fixed WDM solutions are still finding value where incredibly high bandwidth needs to be served cost-effectively in point-to-point applications.

## The outcome

ACP continues to serve fixed WDM applications and is seeing 40% increase in new fixed WDM opportunities. By avoiding the loss associated with ROADMs, ACP fixed WDM solutions are providing a 60% reduction in point-to-point loss and the avoidance of EDFAs allows the solution to be delivered at a 1/3 rd the cost of a dynamic network. Not every network problem can be solved with fixed WDM, but where it can, ACP is able to deliver dramatic performance improvements and cost savings with its fixed WDM solutions.

## Contact our team to have your challenge solved today:

Every acp solution is backed by 25 years of unparalleled success in providing photonic solutions for global OEMs coupled with our uncompromising pursuit of excellence.

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