



// DAA PLAYBOOK

# Access Communications Brings Next-Gen Broadband to Every Subscriber

Expanding broadband capacity with unparalleled flexibility and cost efficiency.

## WHAT SUBSCRIBERS WANT



ULTRA-FAST BROADBAND



RELIABLE INTERNET



AFFORDABLE SERVICES



ENHANCED BROADBAND EXPERIENCES



FAST ISSUE RESOLUTION

## THE GAME PLAN

Access Communications is a not-for-profit co-operative connecting the province of Saskatchewan for over 40 years. Today, the operator serves over 70,000 broadband subscribers in 235 communities.

For Access Communications, delivering reliable, affordable, and faster broadband services to the communities they serve is critically important. The company wanted a next-generation broadband solution capable of providing subscribers with higher bandwidth capacity and an extraordinary subscriber experience.

It needed flexibility and wanted to easily scale, while simultaneously reducing the energy footprint and related costs. By adopting a virtualized access solution and distributed access architecture (DAA), Access Communications aimed to transform its operations and lower its operational expenses.

## THE PLAY-BY-PLAY

Access Communications chose Harmonic's CableOS® platform and deployed Harmonic's Ripple Remote PHY (R-PHY) node and other third-party nodes in a distributed access architecture (DAA).

During the deployment and installation phase, Access Communications leaned heavily into Harmonic's expertise in virtualized access technology and DAA. As a result, they were able to rapidly build out a next-gen access network in just four months to start delivering faster broadband speeds to its subscribers.

## THE WIN

Harmonic's cloud-native CableOS platform reduces the cost of CMTS upgrades and RF equipment in the headend, to simplify network operations for Access Communications. The virtualized solution deployed in a DAA, helps decrease facilities costs. It also enables greater agility to scale and proactively manage bandwidth allocation and provisioning. The CableOS platform's centralized core enhances the operator's DOCSIS network for improved performance.

Since deploying the CableOS platform and R-PHY nodes, Access Communications has increased the average node output MER by 8dB and the max node output MER by 10dB. Access Communications was also able to simplify the DOCSIS network and operations condensing from three teams to one that is now responsible for Video, DOCSIS, network and delivery up to the node.

With green, high-efficiency technology, the CableOS platform allows Access Communications to transition to the next generation of broadband networks while consuming less power than traditional solutions. By significantly reducing energy, space, cooling and cabling costs, the CableOS platform provides Access Communications with an efficient solution for broadband capacity expansion, superior quality of service and long-term sustainability.

Access Communications is also preparing its network for future growth. As the demand for bandwidth continues to grow the operator is planning to upgrade its plant to mid-split to address increased upstream capacity. With Harmonic's Ripple R-PHY node, Access Communications has the flexibility to change diplexers in the field to maximize previous investments and transition to next-gen broadband networks.

By selecting Harmonic as its broadband technology partner, Access Communications can easily expand its high-speed digital highway to make reliable internet accessible and affordable for every subscriber served.

"We chose Harmonic, the market leader in virtualized access technology and DAA, because its driving a smarter, more flexible broadband future."

### Access Communications



## THE POWER OF CABLEOS

70K

Broadband subscribers in urban and rural areas



Lower energy footprint



Enhanced network performance



Agile network evolution



Increased service velocity