

## The 7 most important cable technologies for 2021



With bandwidth demand at an all-time high, now is the time to get familiar with new solutions that can increase network capacity and keep subscribers connected. Here are the technologies you should have on your radar this year.

# Mid and High-Split

Distributed access architectures









and video sharing is accelerating the need to allocate more spectrum to the upstream. Look for the mid and high-split to come on strong this year.



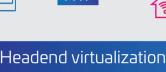
5 MHz

42 MHz 65 MHz 85 MHz

204 MHz

10GSERVICE EVOLUTION 2021 is the year we take a major step toward 10G services. Look for operators to move up to remote PHY and remote MACPHY to add capacity, optimize the headend, and prepare for virtualization.







3



rigid, hardware-based headend infrastructure evolve to a more dynamic virtualized architecture. For operators, that means more flexibility and lower costs.

In 2021, we'll start to see today's

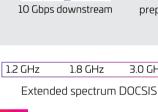




Virtual management plane

4

### With the release of the DOCSIS 4.0 specification in 2020, operators turned their thoughts to gigabit services.



into action and begin making critical preparations for deployment. 3.0 GHz Full duplex DOCSIS

In 2021, they'll turn those thoughts

Passive optical networking

Cloud-based applications, mobile

backhaul, and increased utilization are

driving traffic in both the upstream and

**SYMMETRICAL** 

### BANDWIDTH downstream. PON is a great option in 2021 for operators that need to support symmetrical, multi-gigabit services.





Wi-Fi is getting a boost in 2021 with Wi-Fi 6 and Wi-Fi 6E. These technologies are poised to significantly improve Wi-Fi performance and reliability throughout the home.







Superior experience

For some subscribers, a low ping means everything. That's why low-latency DOCSIS is so exciting. It promises

Low-latency DOCSIS

Extended range

a round-trip delay as low as 5 ms for latency-sensitive AR, VR, gaming, telemedicine, and financial applications.



Want to learn more about the top solutions and considerations for operators in 2021?