Help your users move more data, faster with high-capacity bandwidth

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Organizations are asking more from their networks than ever before as the volume of data generated by business applications continues to grow. Employees — on site or remote and connecting through virtual private networks (VPNs) — increasingly rely on cloud applications to stay productive. And connections between numerous locations and data centers are handling more traffic than ever before.

To maintain performance and ensure continuity of operations, IT leaders need reliable, high-speed network connectivity. They must adapt quickly to evolving user needs, which requires solutions that can meet the growing demand for high-capacity bandwidth.
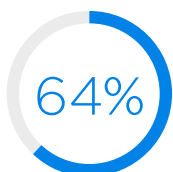
As part of Charter Communications, a Fortune 100 company, Spectrum Enterprise continues to invest in our network and expand our reach to offer high-capacity capabilities that help organizations move more data, more efficiently. From 2016 – 2020 alone, Charter Communications invested nearly $40 billion in infrastructure and technology. We provide dedicated internet access and Ethernet up to 100 Gbps to power high-volume applications. Our collaborative approach to network modernization also brings additional resources and expertise for IT teams to make the most of limited time and budgets.

In this executive brief, we explore ways the high-capacity bandwidth of our dedicated Fiber Internet Access and Ethernet Services delivers on the promise of a modern network that can connect users with the applications and data they need.

Improve application performance

High-capacity circuits can provide the bandwidth required to reliably transport large workloads of critical traffic between key locations or applications running in a data center. Sufficient bandwidth becomes increasingly important as more users connect to networks and more applications connect to the cloud, which can impact performance.

Access to the right amount of bandwidth, based on location and need, keeps businesses and teams running smoothly. As organizations expand their reliance on virtually delivered services and connect more remote employees, ensuring adequate bandwidth is a critical enabler of seamless and reliable experiences.

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64%

of healthcare providers are pursuing digital transformation to revolutionize patient experiences.[4]

Use case: Digitized healthcare

Readily downloadable high-definition medical imaging, virtual healthcare initiatives and the digitization of electronic health records (EHRs) have helped usher in a new era of bandwidth intensive, data-driven healthcare. Current estimates suggest that a single patient generates close to 80 megabytes in imaging and EHR data each year.[1] With the average physician seeing 20 patients per day, that can easily add up to more than 400 gigabytes annually that healthcare organizations must store on their networks for a single provider and make available instantly during consultations.[2] As artificial intelligence (AI) algorithms progress, that data also could be used to vastly improve the quality of patient care. It's no surprise then that 64 percent of healthcare providers are pursuing digital transformation to revolutionize patient experiences.[3]

Solution: Healthcare administrators can use high-capacity Ethernet to download large volumes of high-definition patient imaging and EHR information from data centers, EHR service providers and remote locations to improve the patient-provider experience.

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Support rapid data recovery

Building the capacity to support data-intensive applications on the network is only one of the challenges IT leaders face. During a disruption, fast restoration of essential business applications from backups stored in data centers is crucial — and it's dependent on having access to the right connectivity solutions.

Spectrum Enterprise can deliver the bandwidth required to support business continuity and rapid data restoration in the event of an outage. As a collaborative partner with a diverse portfolio of connectivity and networking capabilities, we can also integrate our Wireless Internet Backup solution, fault-tolerant managed network services and dual entrance facility designs into a network architecture that achieves your unique goals for a resilient network.

Choose a partner that can scale with your applications

As applications use more data and require more resources from your network, their growth can impact users' connection speeds and experience. Fortunately, it's easier than ever to adopt high-performance, low-latency solutions with the right bandwidth to support your networking challenges. Spectrum Enterprise can equip your organization with internet and Ethernet speeds up to 100 Gbps for your most data-intensive applications.

- **Fiber Internet Access:** Ensure a dedicated, high-performance internet connection with a partner you can trust. Experience the consistent performance you need to keep critical applications up and running and your business operating. Fiber Internet Access provides nationwide, dedicated internet connectivity with symmetrical upload and download speeds, delivered securely over our private fiber network.

- **Ethernet Services:** Meet ever-growing data needs by connecting locations with a fast, secure, reliable, private wide area network (WAN) solution backed by performance guarantees and delivered over a dedicated fiber infrastructure. An online portal empowers IT staff with network visibility, providing near real-time status updates and reporting capabilities. The solution also includes our high-touch, end-to-end service delivered with superior network design.

Additional advantages of high-capacity bandwidth:

Reduce costs and complexity by consolidating internet connections and traffic.

Maintain performance as more employees access network resources and the internet through VPNs.

Count on rapid restoration of data from private data centers and the public cloud after a disruption.

Expand your capabilities with a national partner investing in a dense private fiber network.

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Why companies choose Spectrum Enterprise

- 1,200+ MEF certified professionals.
- MEF award-winning network service provider.
- One of the top U.S. Ethernet providers, according to the Mid-2021 U.S. Carrier Ethernet Services LEADERBOARD.[5]
- Nationwide network reach with 255K+ fiber-lit buildings and 230K+ fiber-route miles.
- 99.99 percent service availability supported by an end-to-end service-level agreement (SLA) that extends into the client suite.
- 24/7/365 proactive monitoring with U.S.-based support.
- Local technicians.
- A four-hour mean time to restore (MTTR) — not just to respond.

Conclusion

Spectrum Enterprise continues to invest in our technology and nationwide fiber network to enable capabilities like high-capacity connectivity so your organization is prepared to meet the networking challenges that come with increased data transmission. As your trusted partner, we will collaborate with your team to deliver the right bandwidth solution for each of your locations to ensure reliable performance, low latency and high uptime across your entire network.

Partnering with Spectrum Enterprise enables your organization to innovate and continue your network modernization journey. We offer high-capacity Fiber Internet Access and Ethernet Services up to 100 Gbps, with the flexibility to adopt different speeds across locations with varying needs. These services make it easy to improve performance between applications and network users, which is key for user experience.

Our diverse portfolio of connectivity solutions makes it easier, quicker and more cost-effective to access bandwidth capacity few other providers can match. Our internet and networking services are backed by an industry-leading SLA that offers 99.99 percent service availability with a four-hour mean time to restore — not just to respond — for reliable connectivity into the client suite. You can count on high performance and low latency for your users, allowing you to rest easy knowing your solutions include 24/7/365 U.S.-based support and local technicians.

Work with a network service provider that has the knowledge, experience and technology to meet the changing needs of your organization.

Learn more at enterprise.spectrum.com/HighCapacity.

1. "Health Data Volumes Skyrocket, Legacy Data Archives On the Rise," Harmony Healthcare IT, Aug. 4, 2020.

2. David Ollier Weber, "How Many Patients Can a Primary Care Physician Treat?" American Association for Physician Leadership, Feb. 11, 2019.

3. Tim Waters and Rod Cruz, "Digital Hospitals and Healthcare: What the Future Holds," Equinix Interconnections, Dec. 18, 2020.

4. Ibid.

5. "Mid-2021 U.S. Carrier Ethernet LEADERBOARD," Vertical Systems Group, Sept. 2, 2021.

About Spectrum Enterprise

Spectrum Enterprise, a part of Charter Communications, Inc., is a national provider of scalable, fiber technology solutions serving many of America's largest businesses and communications service providers. The broad Spectrum Enterprise portfolio includes networking and managed services solutions: Internet access, Ethernet access and networks, Voice and TV solutions. The Spectrum Enterprise team of experts works closely with clients to achieve greater business success by providing solutions designed to meet their evolving needs. For more information, visit enterprise.spectrum.com.

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