

INTERNET CONNECTIVITY



"It used to be the sole knowledge of information resided with the teacher: the globe, the Encyclopaedia Britannica, and maybe a few books down in the library. We've really moved well beyond that, where we need to equip kids with new sorts of skills."

— Keith Krueger, CEO, Consortium for School Networking

Overview

What are you doing on your network today?

What new and emerging forces are driving Internet connectivity and bandwidth in your organization?

Internet access is fundamental for teaching and learning, and preparing lifelong learners to compete in a global economy. The basic unit of Internet access is the telecommunications circuit, and circuits come in various connectivity speeds and capabilities depending on your growth projections, and what's driving your bandwidth usage.

ENA implements and manages nearly every available Internet connectivity option, allowing you to choose the connectivity technology and bandwidth that best meets your needs. ENA allows you to make this decision independently of a particular telecommunications supplier's orientation toward one circuit technology or another. We work with you to evaluate viable solutions and select and implement the solution that aligns with your budget and your connectivity requirements.

The Challenge

Innovative new technology applications, such as videoconferencing and Internet2—provide enhanced learning opportunities, and are the primary drivers of increased bandwidth. Simply put, as schools and libraries do more teaching, learning, and research online, the more bandwidth capacity needs to scale to accommodate those needs. But that's not all. Increasingly, applications for the administration of grades, attendance, budgets, and other mission-critical applications are moving online. Each of these applications requires additional bandwidth. To facilitate growing and learning at schools and libraries, bandwidth is a necessary part of the formula.

The Network-Highway Analogy

To make a simple analogy, your Internet access bandwidth is like a two-lane highway, with cars representing the packets of data associated with the growing use of applications on your network. Based on your current situation, cars are able to travel the highway without bottlenecks. They move from point A to point B without any snags. But as the number of users grows, and the applications increase in number and produce more data, the number of cars on the highway increases too. When there are more cars on the highway than the highway can accommodate at a single time, the whole highway slows down, and cars need more time to get to their destination.

MORE THAN JUST BANDWIDTH



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Please visit www.ena.com or call toll-free (866) 615-1101. Contact us via e-mail at info@ena.com.



The Solution

ENA is in the business of widening lanes and providing faster Internet connections on your network's "highway" at affordable prices. Adding a new circuit or adopting new connectivity technology is the Internet access equivalent of opening new lanes. Your decision about what sort of circuit to add depends on your growth projections, your budget, and the kinds of activity your network must support. ENA provides more than just bandwidth. When you choose connectivity from ENA, you get more than just a telecommunications circuit. We've built and now manage safe, reliable, and scalable statewide networks designed specifically for schools and libraries.

Innovation

We consistently look for ways to optimize the network. For example, our unique peering technology helps ensure consistency and high performance on the network by directly linking the ENA network to nine upstream Internet peers. Peering gives ENA network members fewer delays in reaching their Internet destinations. After all, the reliability of the ENA network is a foundation on which you deliver Internet applications to students, teachers, administrators, librarians, and patrons. ENA is dedicated to helping you achieve your learning and organizational goals.

Connectivity Quick Reference

<i>Connection</i>	<i>Speed</i>
T1	1.5 Mbps
T3/DS3	15-45 Mbps
Fiber-optic/Ethernet	100-1000 Mbps

Connectivity Options

A standard T1 Internet circuit offers 1.5 megabits-per-second (Mbps) of bandwidth. Multiple or bundled T1s are an option under certain circumstances. A higher bandwidth solution (that is, one that allows more cars to travel on the highway at once) is the DS3. ENA offers its customers in Tennessee a fractional DS3 available in increments up to 45 Mbps. Indiana customers are eligible for a "burstable" DS3 at 15 Mbps with bursts of data up to 45 Mbps, or a full DS3 at 45 Mbps. The most available capacity (the most lanes that can be installed on that highway infrastructure) is the fiber optic circuit, available in either 100 Mbps or 1,000 Mbps (Gigabit) capacity. Your ENA account services manager is available to discuss and review these options and help you determine which is best for your school system or library's current and future bandwidth needs. ENA's managed circuits are also eligible for appropriate E-Rate funding.

About ENA

ENA provides managed network and technology solutions for school systems, libraries, and governments. ENA was founded with a vision to provide technology solutions that make reaching and using valuable information as easy and reliable as turning on the lights. Since building the first statewide K-12 network in the United States in 1996, we have established a reputation as a reliable partner with expert knowledge in Internet access, broadly distributed networks, value-added customized services, and funding sources such as E-Rate.

Making reaching and using valuable information as easy and reliable as turning on the lights.



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