



Connecticut's Trusted Internet Partner

Dedicated Internet Access Bundle Proposal



New Haven School District
Request for Proposal

Internet Services
January 30, 2023

Paul Tarsa
Member Services Manager
Connecticut Education Network
860.622.4573
paul.tarsa@uconn.edu

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Gilda Herrera
Director of Technology
New Haven School District
54 Meadow Street
New Haven, CT 06519

Dear Gilda,

CEN is pleased to present the New Haven School District our proposed solution in response to your RFP: Category 1 Internet Access, 470 #230011641. CEN is a USAC registered service provider, SPIN #143.049.066.

This proposal package will provide you and your team a personalized profile of the proposed solution, the **CEN Dedicated Internet Access (DIA) Bundle**, including:

- Pricing for terms of 1-5 years
- Itemized bundled services
- Solution comparison vs. competitive offerings

As a member-driven, public enterprise, CEN and its community members have worked together for more than 20 years to provide much more than commodity Internet access. With a primary focus on providing value to Connecticut research and education organizations, the results of the CEN member-driven model include: a network designed for performance and scale, a DIA product bundle tailored to the needs of K-12, a locally focused support team providing service 24x7, and a community of IT professionals collaborating across multiple forums for the betterment of Connecticut students, families, educators, towns, and cities. Read more about the recent collective results of the CEN community in the [2021 CEN Annual Report](#).

CEN understands this process can be complex with multiple providers offering various technology options. CEN's solution provides a bundle model of product and services designed for K-12 that goes well beyond basic Internet access. For example, CEN's DDoS Protection Service is included in the bundle at no additional cost. As a standalone product, it would cost thousands of dollars. CEN's Member Services and Technical Services teams are ready to review with you your district's requirements to help you settle on the right solution.

We appreciate your membership and look forward to continued growth and improvement together.

Paul Tarsa
CEN Member Services Manager

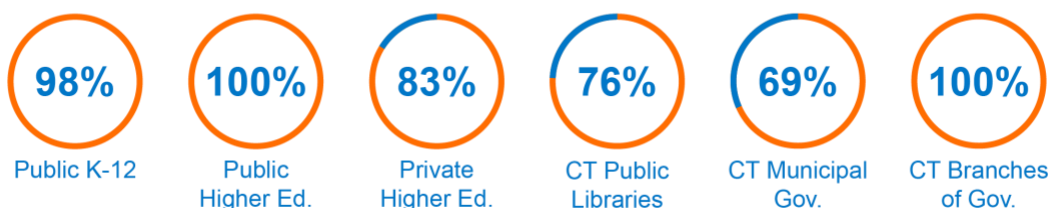
Why choose CEN?

Trust

CEN is the Internet provider of choice for Connecticut's K-12, higher education, and public sectors.

For over 20 years, CEN has earned the title of "Connecticut's Trusted Internet Partner" providing high performance network, security, and Internet services to over 650 member organizations. With approximately 3,200 optical fiber route miles extending into every Connecticut community, CEN connects:

1.8 Million Citizens Served



Quality

CEN is designed to meet or exceed the high standards of the research and education communities.

CEN's scalable, resilient network design offers an unmatched combination of performance attributes for speed, latency, reliability, and security. Highlights of CEN's product specification profile include:

- 99.99% Uptime
- < 20 ms On-net latency
- Dedicated, symmetrical bandwidth with burstability to full handoff speed
- Dual, east-west fiber connectivity

Value

CEN's DIA product provides more value with bundled services than other Internet providers' products.

CEN's cost recovery business model is unique among Connecticut Internet providers. This model makes possible the combination of competitive pricing, custom tailored services, and larger feature sets compared to other for-profit Internet providers. The table below, CEN DIA Bundle – Features and Services provides a summary of the significant value-add in CEN's DIA Bundle. K-12 custom tailored services in the CEN DIA Bundle at no additional cost include:

- DDoS Protection
- Children's Internet Protection Act (CIPA) compliant web filtering
- Managed router
- Cloud Connect to Amazon Web Services (AWS), Microsoft Express Route (MER), Google Cloud Platform (GCP), and Oracle Cloud Infrastructure (OCI)
- Consortium contracts (e.g., Securly, iboss)

Service

CEN's team is focused on Connecticut, 24x7x365.

CEN's team is based in Hartford and backs its members around the clock with its Network Operations Center (NOC). Members have direct access to all team members for the most consistent, local, expert service available.

Community

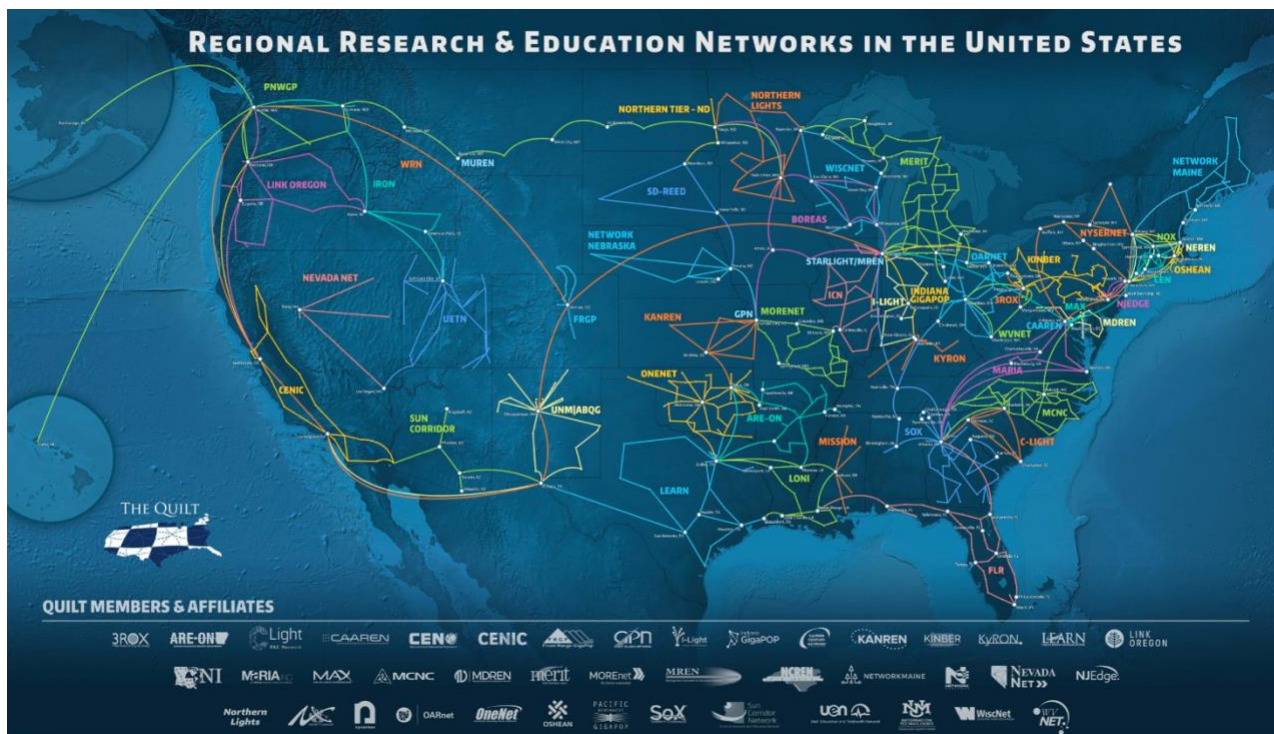
CEN's high level of member (customer) engagement due to its organizational structure and operational model distinguishes it from all other for-profit Internet providers.

CEN develops and derives its products and services in partnership with its member organizations through a multitude of forums including:

- Engagement and Development Advisory Council
- Service Management and Technical Advisory Council
- Annual Member Conference
- Member Training Events



Extending this community model nationwide, CEN is a member of [The Quilt](#), which enables collaboration with dozens of similar regional R&E (Research & Education) networks extending across the country to develop, deploy, and operate advanced cyberinfrastructure that enables innovation in research and education.



CEN's Dedicated Internet Access (DIA) Bundle product includes a large suite of features and services at no additional cost. Please consider their value when comparing the CEN DIA Bundle to alternative products. In many cases, the features and services listed below are not available from alternative providers, or they are only available at a significant up-charge.

Service Category	Service / Feature	CEN DIA Bundle
Fiber Circuit Performance	Dual, east-west connectivity (Meadow St site)	Included
	Managed router	Included
	Ability to burst to line speed	Included
	Cloud connectivity to AWS, MER, GCP, OCI	Included
	Ultra-low latency	Included
	No oversubscription (ratio 1:1)	Included
	Dedicated bandwidth	Included
	IPv4 subnets (/29)	Included
	IPv6 subnets (/48)	Included
	DNS hosting	Included
Security	DDoS protection	Included
	CIPA web filtering	Included
	DNS firewall	Included
Community Collaboration	Member training events and Annual Member Conference	Included
	Consortium pricing	Included
Management & Monitoring	24x7x365 Proactive Monitoring	Included
	No data caps and no charge for overages	Included

CEN DIA Bundle Solution Pricing - New Haven School District

CEN is pleased to provide the following products and pricing. All pricing is 100% E-Rate eligible, Category 1. Contract terms of 1-5 years are available for the Meadow Street site; terms of 3 or 5 years are available for Blatchley Ave. site. Terms of 5 years for bandwidth tiers of 1Gbps - 10 Gbps include discounted pricing as shown below.

Location: 54 Meadow Street, New Haven, CT

Products and Services	Bandwidth (Mbps)	Handoff Speed (Mbps)	Quantity	Term (months)	Monthly Recurring Cost (MRC)
CEN DIA Bundle, option 1	10,000	10,000	1	12-48	\$3,920
CEN DIA Bundle, option 2	10,000	10,000	1	60	\$2,850

Location: 255 Blatchley Ave, New Haven, CT

Products and Services	Bandwidth (Mbps)	Handoff Speed (Mbps)	Quantity	Term (months)	Monthly Recurring Cost (MRC)
CEN DIA Bundle, option 3	10,000	10,000	1	36	\$4,990
CEN DIA Bundle, option 4	10,000	10,000	1	60	\$3,695
IPv4 Addresses /26	n/a	n/a	1	36 or 60	\$128

New Haven SD Bundle Services included in pricing:



DDoS Protection



Dedicated Internet



Managed Router



Dual, East/West
Connectivity
(Meadow St. site)



24 x 7 x 365
Monitoring



IPv4 Addresses
(64.251.51.0/26 - Meadow
St. site)

/48 IPv6 Addresses



DNS



[eduroam](#) Wireless
Internet Access
Service

Additional Bundle Services available to New Haven SD, included in pricing, opt-in:



DNS Firewall



Cloud Connect
(AWS, Microsoft,
Google, Oracle)



Private Ethernet



CIPA Web Filtering

CEN Membership includes:



Annual Member
Conference



Member Training
Events



Consortium Contracts