

The Quilt

IP Transit Internet Services Request for Proposals

January 6, 2020

ALL MATERIALS SUBMITTED AS CONFIDENTIAL BY THE PROVIDER WILL BE KEPT CONFIDENTIAL WITHIN THE QUILT.

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January 6, 2020

To The Quilt RFP Respondents:

The Quilt Commodity Internet Services group is now engaging in its tenth extensive, national review of Internet Service Providers. This RFP is the formal mechanism for this review. You will find the complete RFP materials available for download at <https://www.thequilt.net/the-quilt-2020-commodity-internet-services-rfp/> .

The Quilt, Inc. is a 501(c)(3) organization which is incorporated in Washington DC and is registered to conduct business in the District of Columbia and Washington State. Our funding and organizational supports are derived from our own members. Once the Authorized Quilt Providers are selected from the RFP process, those organizations will contract with The Quilt, Inc. through a Master Service Agreement.

As with previous RFP efforts, The Quilt's goal is to identify those providers who, through their IP transit Internet service offerings and world class customer support, are willing and able to be partners in the delivery and development of our research and education networks throughout the United States.

The intent of this RFP is to identify and contract with CIS providers which recognize the wealth of opportunities that exist through constructive partnerships with The Quilt and the research and education networking community. Today, there are five providers who enjoy the distinction of being Authorized Quilt Providers; however, The Quilt has no set quota for providers. Providers have been, and will continue to be, chosen strictly on qualifications and merit.

We look to our provider partners to provide pricing discounts appropriate to our levels of bandwidth usage. The Quilt participants today purchase an aggregate of over 1.5 Tbps of commodity internet service through our Authorized Quilt Providers. We expect access to technical competence. We expect sound, reliable, and responsive administrative capabilities.

We look forward to reviewing your response to this RFP and invite you to learn more about The Quilt and our individual participants at www.thequilt.net.

Sincerely,

Jen Leasure
President and CEO, The Quilt

Components of this RFP

The RFP components are available for downloading from <https://www.thequilt.net/the-quilt-2020-commodity-internet-services-rfp/> . The complete RFP package is made up of the following components.

1. quiltrfpjan2020_overview(F).doc (this document)
2. quiltrfpjan2020_essay(F).doc
3. quiltrfpjan2020_provider_pricing_matrix(F).xls (Note the 4 tabs labeled A-D)

Items 2 and 3 along with any materials requested in these documents must be completed and returned to The Quilt. This set of materials will comprise the provider's response to this RFP and it is due back to the Quilt not later than February 19, 2020 by 11:59 pm ET.

For questions on any of these components, please contact Sharon Akkoul at: qt-2020cisrfp@thequilt.net.

Where & When to Submit your Proposals, and Quilt Contact

There may be multiple persons within each company that will receive notification of this RFP. Each person will be informed who the others are within their company who are receiving the notification. The Quilt asks each company to construct a single, coordinated response that is supported at the company's highest executive level.

All interested providers must submit a non-binding Letter of Intent to respond to the RFP no later than January 22, 2020. RFP questions and responses will only be accepted from providers that have submitted a Letter of Intent. The Letter of Intent should be sent electronically and addressed to Sharon Akkoul at qt-2020cisrfp@thequilt.net and include the following information:

- A statement that your company is planning to submit a response to the RFP
- The lead person's name, title and contact information along with signature

Upon reviewing the responses, The Quilt may have questions specific to one or more responses for which it may need to seek clarification. The Quilt reserves the right to contact individual providers and seek such clarifications as may be necessary and appropriate.

The Quilt will be holding a pre-RFP question and answer session prior to the RFP submission date. This Call is open to any interested parties to ask questions of the Quilt's RFP team regarding the content of the RFP, the schedule, process, or any other questions pertinent to this RFP effort. We ask that where possible, questions for this call will be forwarded to quiltrfp@nysernet.org prior to the call. Participation in the call is strictly optional and is not required. A call summary will be posted to The Quilt's 2020 RFP web page at:

<https://www.thequilt.net/the-quilt-2020-commodity-internet-services-rfp/> .

Schedule of RFP Activities

Event	Date
RFP Release	January 6, 2020 (Monday)
Non-Binding Letter of Intent to Respond Due	January 22, 2020 (Wednesday)
Pre-RFP Q&A Conference Call 3:00 pm EST 202-850-0927 *no pin*	January 30, 2020 (Thursday)
Due Date for CIS RFP Submission to The Quilt (11:59 pm EST)	February 19, 2020 (Wednesday)
CIS RFP Semi-Finalists Invited for Presentations	March 30th, 2020 (Monday)
CIS RFP Semi-Finalist Presentations via Zoom	April 14, 15 & 16 2020 (Tuesday / Wednesday / Thursday)
Providers Selected to be CIS Authorized Quilt Provider (AQP)	April 16, 2020 (Thursday)
CIS Master Services Agreement Signed	Week of May 21, 2020
CIS AQP Now Authorized to Sell Under Quilt Pricing Agreement	Upon MSA execution

A Provider who is selected as a semi-finalist is expected to attend and present during a videoconference meeting listed in the above schedule. The Quilt will schedule the semi-finalist presentation with the individual AQP teams and provide the videoconference participation information ahead of the scheduled sessions.

Note that The Quilt reserves the right to withdrawal award from the RFP process should execution of the Master Services Agreement delay beyond targeted execution time frame.

The Letter of Intent and Questions must be sent electronically. Please e-mail to Sharon Akkoul qt-2020cisrfp@thequilt.net. The documentation is required to be delivered by the date and time listed above.

Once The Quilt receives a Letter of Intent, the provider will be provided with access and instructions to a secure page on The Quilt's Basecamp Hub. Basecamp is web-based project management software to which The Quilt subscribes. More information on Basecamp can be found at the website <http://www.basecampHQ.com/>.

Each responding provider will then submit proposal documents to the Provider Base Camp page per the schedule listed above. Successful upload and receipt of these documents will be confirmed by a member of The Quilt staff. Once the RFP deadline has passed, providers will no longer have access to the site to upload documents.

For any questions on access to or use of the Basecamp tool, please contact Jennifer Griffin at griffin@thequilt.net. Please ensure that your documents are submitted in PDF format or using Microsoft standard office software format. This is the only format in which RFP documents will be accepted. It is strongly recommended that Microsoft Office documents be vetted using the latest version on both Windows and macOS and that PDF documents can be properly read using the default PDF viewer on each platform.

Proprietary Information

All materials submitted as confidential by the Provider will be kept confidential within The Quilt.

Introduction: What is The Quilt?

The Quilt, Inc. (The Quilt) is a collaboration of 38 U.S. non-profit research and education network organizations. It is a dynamic forum where leaders from throughout the advanced research and education network community build on the intellectual capital and best practices of network service providers worldwide. Based on the participants' combined experiences in operations and development of leading-edge technologies, Through The Quilt, non-profit regional research and education networks collaborate to develop, deploy and operate advanced cyberinfrastructure that enables innovation in research and education. The Quilt derives support and funding solely from its participants. It also relies on significant volunteer contributions from its participants to support its initiatives.

The Quilt plays a respected and trusted role within the networking and broader information technology communities. It maintains this role by engaging providers, federal agencies, and its participants in diverse projects and interest groups.

For a full listing and description of each of the current Quilt participants, please see <https://www.thequilt.net/about-us/the-quilt-participants/>. Each of these network aggregators serves multiple research and education institutions and, in some instances, other organizations.

Why You Want to Do Business With The Quilt?

The Quilt represents a well-defined group of organizations that serve leading U.S. research and education entities. These institutions both create and utilize cutting-edge technology and applications which increase the need for additional bandwidth capacity for these institutions. The Quilt members' aggregate committed information rate (CIR) for commercial IP transit is about 1.5Tbps, and expected to grow to about 1.7Tbps by the end of 2020. As these numbers only reflect the amount of Quilt participant committed bandwidth, our members' 95th percentile usage numbers are even more significant. The Quilt also leads the curve in finding new ways to organize networks to multi-organizational benefit. Our unsurpassed level of expertise in the customer community has been a resource to provider partners.

There is a well-defined track record of success for companies who have created meaningful partnerships with this leading-edge Internet community. Quilt organizations are consistently early adopters of new technologies, including but not limited to network technologies and ways of implementing them. Authorized Quilt Providers (AQPs) who have participated in the program since inception have seen their Quilt member and affiliate bandwidth purchase significantly increase since joining the program.

Many Authorized Quilt Buyers ("AQB") are required to purchase their services through an agreement that is the result of a competitively bid RFP process. By leveraging The Quilt's RFP process, many AQBs are able to omit their own RFP processes, which can relieve providers from generating individual RFP responses for each of our members. Conversely, for organizations that omit their RFP processes in lieu of The Quilt's, there may be no other opportunity for providers to compete for their business.

Goal of the 2020 Internet Services RFP: Select Authorized Quilt Providers

By the end of May, 2020, The Quilt will contract with those providers who will offer highly competitive IP-transit Internet Services pricing and who have exhibited a willingness to work with AQB's and provide the highest levels of;

- World-Class Customer Support
- Technical Competence
- Networking Infrastructure
- National Coverage

Some Common Questions About Being an Authorized Quilt Provider

How many Authorized Providers will there be?

Providers will be selected based on merit. There may be as few as zero or there may be several, but there is no set number of AQP's.

Are Quilt participants required to purchase from the Authorized Providers?

No. While there are significant advantages to The Quilt participants to purchase from Authorized Quilt Providers, participants are free to choose their own solutions based on their individual needs.

Who are the Authorized Quilt Buyers?

The administrative structure of the regional networks who are The Quilt's members varies from one regional network to another. In some cases, the regional network will be the only purchaser of Internet services; in other cases, the 'connected' entities of the regional network may be the purchasers. Since this varies from region to region, The Quilt maintains a list of organizations that are allowed to purchase services under the auspices of The Quilt AQP agreements. These authorized purchasing entities are called Authorized Quilt Buyers ("AQB"). See Exhibit A of the sample Agreement, attached, for the current list of AQB's. Note, this list can and does change over time and for the purposes of the RFP, the contacts are not provided.

What are the negotiating requirements for an AQP?

The pricing quoted in the RFP response is the only pricing that an AQP may offer to an AQB. AQP's may of course offer pricing outside of the RFP response to customers not on the AQB list. If an AQP wishes to offer lower pricing to an AQB than that which was quoted in their Master Service Agreement (MSA) with The Quilt, then the AQP must amend The Quilt MSA to make the lowest pricing available to all the AQB's. Amendments will be considered at any time.

Administrative Requirements of an Authorized Quilt Provider

Contracts

Each AQP will be required to sign an MSA with The Quilt. The primary function of this agreement is to codify the pricing the provider will extend to the AQB's. See attached "Agreement" for a sample of this contract.

The services delivered from an AQP to an AQB will be established by a service contract directly between the AQP and each AQB. The Quilt is neither involved in this process nor is it a signatory to the

service contract. We expect the AQP to have a standard agreement that will be the focal point of contractual negotiations between the AQP and an AQB. This agreement will be based simply on the AQP's standard contract with the inclusion of The Quilt-based pricing outlined in the agreement between The Quilt and the AQP.

The Quilt Aggregate Pricing Model

Since the first RFP in 2001, one of the strengths of The Quilt's IP transit program is the aggregated pricing models offered by AQPs. The Quilt pricing model is based upon an organizational aggregate of the AQB committed bandwidths with each AQP. As the aggregate goes up, the price goes down. The unique part of this model is that the aggregate is taken across many organizations. This permits The Quilt to appear as one large organization which qualifies for the largest possible discounts and the highest level of direct and prioritized support offered to large-bandwidth customers. It leverages the scale of The Quilt member organizations and Authorized Quilt Buyers and creates a strong incentive for provider growth once approved for the program. While other models may be considered, it is our experience that the model outlined in our pricing matrix creates the greatest opportunity for partnership and growth through program.

Quilt members are regional network aggregation points for R&E organizations with in a certain geographic territory. As such, these organizations have high capacity CIS needs. Multiple 10Gbps ports and 100Gbps ports per organization are now standard. A pricing model that recognizes and encourages migration to multiple 100Gbps connections through price and aggregation incentive would be very useful.

Pre-Existing Services and Contracts with AQP

Whatever pricing model is offered, The Quilt expects the provider to allow EXISTING contracts for services with AQBs to be transferred without penalty to The Quilt pricing model once the contractual arrangement with The Quilt has been completed. For example, if AQB Jane Doe University already has a contract for 2Gbps of service from the provider at the time the provider signs the contract with The Quilt, the provider will be expected to honor the new Quilt pricing *without penalty, term extension, or revenue neutrality requirements*. Also, the 2Gbps would apply to any aggregation tallies across the AQB base. Jane Doe University must have the opportunity to maintain their current bandwidth commitment at the new Quilt price point under the existing term.

Service Reviews

All AQPs will be expected to have at least two specifically-assigned, national-level administrative contacts to participate in a quarterly service review process.

The Quilt will also have a dedicated liaison for each AQP. The Quilt Liaison has four main duties:

1. Point of contact for AQBs on any issues with service or responsiveness from an AQP when AQB's escalation within the AQP structure did not bring resolution or they are unable to find an escalation route;
2. Point of contact if the AQP has questions or issues related to Quilt processes, requirements, or AQBs; and
3. Maintain Quilt records on services delivered from AQP to AQBs;
4. Perform regular surveys on AQP performance and collate those responses; where problem areas are identified, the Quilt liaison will raise these as issues with the AQP for remedy.

The Service Reviews will focus on the following: 1) existing service contracts with AQBs; 2) AQB services in the AQP sales 'pipeline'; 3) issues escalated by AQBs; 4) report on overall AQP performance and where necessary action plans associated with remedy of poor performance areas; 5) organizational updates from The Quilt; and 6) organization updates from the AQP. In time for these

reviews, the AQP will supply an Excel formatted spreadsheet itemizing the following for each contract under the Quilt agreement:

- Contract execution date
- Contract term
- Physical circuit being purchased
- Committed bandwidth
- Contracted price/Mb

AQP Support Teams

Each AQP will be expected to have specific national-level individual(s) assigned and available to The Quilt for the following areas: administrative, technical, legal, pre- and post-sales support.

Administrative Team: this group will participate in the regular Service Reviews and should be the final escalation point for any Quilt related service issues.

Technical Team: This group of individuals should represent the best technical knowledge base of the provider including areas related to Ethernet connectivity; service design; fiber connectivity including service of dark fiber, lambdas, and client-owned fiber based connectivity options; routing & peering including best practices in routing security; PoP hardware and configurations; national network infrastructure; capacity planning; network build-outs; provisioning, expediting, etc.

Legal Team: This group will have the authority to negotiate service contracts between the AQP and AQB without needing approval from a supervisor. They will also be intimately familiar with The Quilt's program and all of its facets so they will not need to be brought up to speed by the AQB.

Pre- and Post-Sales Support: This group will be responsible for understanding the details of the offering and delivering services to The Quilt's AQB's.

VP Level – Executive Contact: This resource will be available to Quilt leadership to support the overall customer relationship with The Quilt. The Quilt expects to utilize appropriate operational staff for day to day questions and issues.

There must also be a clearly defined organizational escalation chart. While we expect to be able to work through standard channels the majority of the time, there are times when issues need to be brought to the attention of a senior/executive level company contact. The Quilt expects nothing less than a provider's best efforts across the board. We also expect that The Quilt's business will be held in the highest esteem and that any reasonable displeasure would be important to a VP advocate.

Technical Support for Authorized Quilt Buyers

As with the service contract, the fundamental service relationship is between the AQP and the AQB. Each AQP is expected to provide full-technical support directly to the contracting AQB. It is important to The Quilt that we receive premier support during and after installation. The Quilt members employ some of the most highly experienced and technical network engineers working today. They expect to collaborate with resources of equal knowledge and experience within our AQPs.

Guidelines on Responding to this RFP

- Do not send us your marketing materials or any materials that do not provide salient information.
- Do not provide information about services that we have not asked about.
- Respond to this RFP using the provided documents. If you do not respond to this RFP in the format provided, we reserve the right not to review your response.
- Pricing models should attempt to be simple, unambiguous, and easy-to-understand.

Quilt Review Criteria

Our provider reviews will be holistic across individual RFPs and across the base of RFP responses. Top level review criteria will include, but not be limited to the following:

- Overall technical AND operational competence and a demonstrated ability to consistently deliver quality services at high capacity bandwidths.
- Demonstrated success of providing direct and prioritized support to large accounts (maybe termed “key”, “named” or “dedicated” accounts) with high capacity connectivity.
- Competitive pricing points consistent with The Quilt’s collective buying power.
- Pricing models that are unambiguous, as well as, easy to understand and administer.
- Competence, reliability, and responsiveness in installations, technical support services, contract negotiations, and billing.
- A non-restrictive Acceptable Use Policy.
- The ability to deliver services to as broad a segment of our authorized buyer base as possible, with an eye to complementary coverage amongst the AQPs when individual providers cannot reach all of our desired points.
- The Quilt expects a dedicated account team to ensure a dedicated set of resources available to present a seamless interface and escalation path to AQB’s for coordination of all quoting, ordering, provisioning, testing, maintenance and billing."
- Evidence of sound corporate practices and indicators of financial viability in conjunction with continued commitment to delivering IP-Transit Internet services.
- Upon completion of service contract term, the end user contract must not include an autorenewal clause. We expect that a completed service contract will transition to a month-to-month service that continues at the same rate until both parties agree to a longer term position.

Good luck! If you have questions about this RFP, please direct them to Sharon Akkoul at: qt-2020cisrfp@thequilt.net.

SAMPLE PROVIDER CIS MASTER SERVICE AGREEMENT

Whereas The Quilt, Inc. (hereinafter "The Quilt") is a collaborative organization comprised of members selected through The Quilt's membership process, this Agreement ("Agreement") is entered into as of _____ (the "Effective Date"). The Quilt, for the benefit of each of the entities ("Authorized Buyers") listed on Exhibit A attached hereto who are members of The Quilt, and ABC Company, on behalf of itself and its affiliates ("Provider") ("Provider" and "The Quilt" are sometimes collectively referred to as the "Parties" and individually as "Party"). Exhibit A may be modified from time-to-time as necessary by The Quilt to reflect changes in the makeup of the Authorized Buyers who are members of The Quilt. The Quilt will provide Provider with notice of any changes to Exhibit A. This Agreement sets forth the terms and conditions under which Provider agrees to provide Commodity Internet Services ("Internet Services") to Authorized Buyers.

Now, therefore, in consideration of the premises and mutual promises and representations contained herein, and for good and valuable consideration, the sufficiency of which is hereby acknowledged, the Parties hereby agree as follows:

1. Pricing Terms. The Provider shall offer to provide Internet Services to the Authorized Buyers as described in more detail and in accordance with the pricing terms set forth on Exhibit B attached hereto ("Pricing Terms"). The Agreement contract terms will be in effect for a period of time not less than three years from the Effective Date of this Agreement. In the event Provider contracts with an Authorized Buyer at a price below those specified in the Exhibit B Pricing Terms under the same or better other terms, such lower price shall be provided in this Agreement by amendment. The lower price will apply only to new orders or renewals orders for Internet Services executed after the effective date of the amendment.

2. Service Orders. If and when an Authorized Buyer seeks to purchase the Services from Provider as described in this Agreement, Provider and each Authorized Buyer shall execute a separate written agreement for such provision of Services which shall specify the respective rights and obligations between the Provider and Authorized Buyer, and which shall include or incorporate the Pricing Terms, Administrative Framework, and Acceptable Use Policy as set forth in Sections 1, 3 and 4 of this Agreement.

3. Administrative Framework. The Parties agree to follow the administrative framework for supporting and monitoring this Agreement, and any separate agreements between Provider and Authorized Buyers entered into pursuant to Section 2, as set forth in Exhibit C attached hereto.

4. Acceptable Use Policy. Provider shall ensure that its Acceptable Use Policy (AUP) (attached as Exhibit TBD and incorporated herein by reference) for the provision of services contemplated hereunder will allow educational, research and commercial traffic to flow over the connection to each Authorized Buyer who shall be recognized as a network provider. Subject to the preceding sentence, Provider's AUP, is subject to change by Provider within its discretion, which changes shall be posted to Provider's website. When such changes are posted, Provider will make notification to The Quilt.

5. Third Party Beneficiaries. This Agreement is for the sole benefit of the Parties hereto and the Authorized Buyers, and their permitted successors and assigns, and nothing herein expressed or implied shall give or be construed to give to any person, other than the Parties hereto and the Authorized Buyers, and their permitted successors and assigns, any legal or equitable rights hereunder.

6. Indemnification and Limitation of Liability. Notwithstanding anything to the contrary in this Quilt Agreement, in no event shall either Party be liable to the other Party (or to any Authorized Buyer) under this Agreement or any other agreement executed between Provider and Authorized Buyer for any damages whether incidental, direct, indirect, special, consequential, exemplary, or punitive, arising out of or relating to this Agreement or any of the services provided pursuant hereto, regardless of whether the respective Parties' had been advised or could have foreseen the possibility of such damages. Other than for claims caused by or arising by the intentional act or omission of The Quilt, Provider agrees, notwithstanding any provision to the contrary as set forth in this Agreement, to indemnify, defend and hold The Quilt, its officer, directors, employees, members, agents, contractors, successors and assigns harmless from and against all loss, damage, liability, cost and expense (including reasonable attorney fees and expenses) by reason of any claims or actions by any third party arising out of this Agreement or any separate written agreement between the Provider and any Authorized Buyer for the provision of Services. Provider further acknowledges and agrees that The Quilt shall not provide any indemnification to the Provider, its affiliates, officers, directors, employees, agents and contractors, successors, or assigns, or to Authorized Buyers. Further, by executing this Agreement for the benefit of the Authorized Buyers, Provider agrees and acknowledges that The Quilt shall not assume any fiscal, legal or other responsibility to Provider or Authorized Buyers for the actual purchasing, contracting, engineering, or ongoing service arrangements, all of which must be executed in a separate agreement pursuant to Section 2 hereof.

7. Term and Termination. The term of this Agreement shall commence on the Effective Date and shall continue in effect thereafter for an initial term of two (2) years, unless earlier terminated in accordance with the terms of this Agreement. This Agreement may be extended for additional sequential terms by mutual written agreement of the parties. The Quilt and Provider may each terminate this Agreement, with or without cause, upon sixty (60) days' written notice to the other Party. Any such termination by The Quilt shall not affect any agreement between Provider and any Authorized Buyer.

8. No Warranties. ANY AND ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY PURPOSE OR USE, ARE EXPRESSLY EXCLUDED AND DISCLAIMED BY PARTIES.

9. Press Releases. Provider agrees that it shall not issue a press release or public announcement pertaining to the matters contemplated by this Agreement at any time, unless the President and CEO of The Quilt project agrees otherwise in writing and agrees to the form and content of such press release or announcement. All such press releases or public announcements shall be approved within ten (10) business days of submission.

10. Choice of Law. The parties agree that this Agreement will be governed by the laws of the United States and the State of Washington without regard to its conflicts of laws principles. For resolution of any disputes arising out of this Agreement, the parties hereby consent to the exclusive jurisdiction of the state and federal courts located in King County, Washington.

11. Assignment. This Agreement shall not be assigned in whole or in part by either Party without the prior written consent of the other, except with respect to an assignment by way of merger or sale of substantially all of a party's assets, and any attempt to assign this Agreement in violation of this Section shall be void and of no effect.

12. Miscellaneous. The Quilt, at its sole discretion and option, shall be entitled to terminate this Agreement at any time if upon the written advice of counsel, its continuation as a signatory to the

Agreement may adversely affect its tax-exempt status under Section 501(c)(3) of the Internal Revenue Code. Such withdrawal shall not affect any Individual Service Agreement executed by an Authorized Buyer. Such termination shall not be considered a breach of this Agreement.

IN WITNESS WHEREOF, the undersigned have executed this Agreement as of the date first above written.

The Quilt, Inc., on behalf the Authorized
Buyers

PROVIDER NAME Inc.

By: _____

By: _____

Name: _____

Name: _____

Title: _____

Title: _____

EXHIBIT A
AUTHORIZED QUILT BUYERS
Updated 1/1/2020

1.00	Three Rivers Optical Exchange (3ROX)
1.01	Pittsburgh Gigapop
1.02	Pittsburgh Supercomputing Center/Carnegie Mellon University
2.00	Albuquerque Gigapop (ABQG)
2.01	University of New Mexico
3.00	Arkansas Research Education Optical Network (ARE-ON)
4.00	South Carolina Research and Education Network (C-Light)
4.01	Clafin University
4.02	Clemson University
4.03	College of Charleston
4.04	Francis Marion University
4.05	Furman University
4.06	Medical University of South Carolina
4.07	North Greenville University
4.08	Presbyterian College
4.09	School District Pickens County
4.10	South Carolina State University
4.11	Tri-County Technical College
4.12	University Center Greenville
5.00	Connecticut Education Network (CEN)
5.01	University of Connecticut
6.00	Corp. for Education Network Initiative in California (CENIC)
6.01	Stanford University
7.00	Florida LambdaRail (FLR)
7.01	Alachua County, Florida
7.02	Barry University
7.03	Bay County Public Schools
7.04	Bethesda Health
7.05	Boca Raton Regional Hospital
7.06	Bradford County, Florida

7.07	Broward Center for the Performing Arts
7.08	Broward Health
7.09	Central Florida Health <i>(name change)</i>
7.10	City of Boca Raton, Florida
7.11	City of Clermont, Florida
7.12	City of Gainesville Engineering
7.13	City of Jacksonville
7.14	Clay County Public Schools
7.15	College of Central Florida
7.16	Eckerd College
7.17	Embry Riddle Aeronautical University
7.18	Escambia County School District
7.19	Florida A&M University
7.20	Florida Atlantic University
7.21	Florida Department of Education
7.22	Florida Gateway College
7.23	Florida Guardian Ad Litem
7.24	Florida Gulf Coast University
7.25	Florida Institute of Technology
7.26	Florida International University
7.27	Florida Polytechnic University
7.28	Florida Southwestern State College
7.29	Florida State College at Jacksonville
7.30	Florida State University
7.31	Florida Virtual Campus <i>(name change)</i>
7.32	Gulf Coast State College
7.33	Gulliver Schools
7.34	H. Lee Moffitt Cancer & Research Institute
7.35	Hillsborough Community College
7.36	Indian River State College
7.37	Jesse Ball duPont Foundation
7.38	Johnson and Wales University
7.39	Lake Sumter Community College
7.40	Lee County Clerk of the Court
7.41	Max Planck Florida Corp. DBA Max Planck Florida Institute
7.42	Miami Dade College
7.43	NAP of Central Florida
7.44	National Oceanic and Atmospheric Administration
7.45	Northwest Regional Data Center
7.46	Nova Southeastern University (NSU)
7.47	Office of the State Courts Administrator, Florida

7.48	Orange County, Florida
7.49	Palm Beach County, Florida
7.50	Palm Beach State College
7.51	Pasco-Hernando Community College
7.52	Pensacola State College
7.53	Polk State College
7.54	Rollins College
7.55	Santa Fe College
7.56	Scripps Florida
7.57	Seminole State College of Florida
7.58	St. Johns River State College
7.59	St. Thomas University
7.60	State College of Florida Manatee-Sarasota
7.61	Tallahassee Memorial Healthcare
7.62	University of Central Florida
7.63	University of Florida
7.64	University of Miami
7.65	University of North Florida
7.66	University of South Florida (SURA)
7.67	University of West Florida
7.68	Valencia College
8.00	Front Range Gigapop (FRGP)/UCAR
8.01	Adams County
8.02	Adams County School District 14
8.03	Adams Twelve Five Star Schools
8.04	Akron School District
8.05	Ault-Highland School District
8.06	Auraria Higher Education Center (AHEC)
8.07	Boulder County
8.08	Boulder Regional Emergency Telephone Service Authority (BRETSA)
8.09	Briggsdale School District
8.10	Brush School District
8.11	Calhan School District
8.12	City of Boulder (CoB)
8.13	City of Fort Collins
8.14	City of Loveland
8.15	Clear Creek School District
8.16	Colorado College (CC)
8.17	Colorado Community College System (CCCS)
8.18	Colorado Mountain College (CMC)

8.19	Colorado School of Mines (CSM)
8.20	Colorado State Supreme Court
8.21	Colorado State University (Ft. Collins) (CSU-FC)
8.22	Colorado State University System (Pueblo) (CSU-P)
8.23	Community College of Denver
8.24	Crook County SD
8.25	Denver University (DU)
8.26	EAGLE-Net/Zayo
8.27	East Central Boards of Cooperative Educational Services (ECBOCES)
8.28	Elbert County School District Elizabeth C-1 (via FRII)
8.29	Elbert School District 200
8.30	Estes Park School District R-3
8.31	Fort Lewis College (FLC)
8.32	Frenchman School District
8.33	Front Range Community College
8.34	Hanover School District
8.35	Harrison School District
8.36	Haxtun School District
8.37	Hoehne School District R E 3
8.38	Holyoke School District
8.39	Jefferson County School District (JeffcoSD)
8.40	Johnson & Wales University (JWU)
8.41	Julesburg School District
8.42	Keenesburg School District Re 3 J
8.43	La Veta School District Re 2
8.44	Laramie HS
8.45	Larimer County
8.46	Littleton School District 6
8.47	Lone Star School District
8.48	Mesa Valley School District 51
8.49	Metropolitan State University of Denver (MSUD)
8.50	Miami-Yoder School District 60 Jt
8.51	Monte Vista School District C 8
8.52	National Ecological Observatory Network (NEON)
8.53	National Oceanic and Atmospheric Administration (NOAA)
8.54	National Renewable Energy Network Laboratory (NREL)
8.55	Navajo Technical University (NTU)
8.56	Northeast Colorado Boards of Cooperative Educational Services (NEBOCES)
8.57	Norwood School District
8.58	Otis School District
8.59	Park School District (Estes Park)

8.60	Peyton School District
8.61	Pikes Peak BOCES
8.62	Platte River Power Authority
8.63	Platte Valley School District
8.64	Platte Valley Schools
8.65	Poudre School District
8.66	Poudre Valley Health System
8.67	Rangely School District
8.68	Ridgway School District R 2
8.69	Silverton School District 1
8.70	St Vrain Valley School District
8.71	State of Colorado (StateCO)
8.72	State of Wyoming
8.73	State of Wyoming Department A&I
8.74	Steamboat Springs School District Re 2
8.75	Sweetwater School District #1
8.76	Sweetwater School District #2
8.77	The State Higher Education Policy Center (SHEPC)
8.78	United States Air Force Academy (USAFA)
8.79	United States Department of Agriculture (I2-USDA)
8.80	University Corporation for Atmospheric Research (UCAR)
8.81	University Information Systems (UIS)
8.82	University NAVSTAR Consortium (UNAVCO)
8.83	University of Colorado - Boulder (CU-B)
8.84	University of Colorado - Colorado Springs (CU-CS)
8.85	University of Colorado - Denver (CU-D)
8.86	University of Northern Colorado (UNC)
8.87	University of Wyoming (U of WY)
8.88	Valley School District R E 1
8.89	Weld County School District RE-1 (Gilcrest)
8.90	Weld County School District RE-3J (Keenesburg)
8.91	Widefield School District 3
8.92	Wray School District
8.93	Wyoming Community College Commission
8.94	Wyoming Community Colleges
8.95	Wyoming Higher Education Computer Network
8.96	Wyoming Supreme Court
8.97	wyoming.com
8.98	Yuma School District #1
9.00	Great Plains Network

9.01	South Dakota Board of Regents
9.02	South Dakota School of Mines and Technology
9.03	University of Nebraska
9.04	University of Nebraska Medical Center
9.05	University of Kansas Center for Research
10.00	Illinois Century Network
11.00	Indiana Gigapop
11.01	Washington University in St. Louis
12.00	KanREN
13.00	Kentucky Regional Optical Network (KyRON)
13.01	Eastern Kentucky University
13.02	Kentucky Community and Technical College System
13.03	Kentucky State University
13.04	Morehead State University
13.05	Murray State University
13.06	Northern Kentucky University
13.07	University of Kentucky
13.08	University of Louisville
13.09	Western Kentucky University
14.00	KINBER
15.00	LEARN: Lonestar Education and Research Network
15.01	Angelo State University
15.02	Baylor College of Medicine
15.03	Baylor University
15.04	Blinn College
15.05	Lamar University
15.06	National Weather Service [Non-Voting]
15.07	Northeast Texas Consortium of Colleges & Universities (NETnet)
15.08	Prairie View A&M University
15.09	Rice University
15.10	Sam Houston State University
15.11	Southern Methodist University
15.12	Stephen F. Austin State University
15.13	Texas A&M Health Science Center

15.14	Texas A&M University
15.15	Texas A&M University - Corpus Christi
15.16	Texas A&M University System
15.17	Texas Association of Community Colleges
15.18	Texas Christian University
15.19	Texas Education Telecommunications Network (TETN)
15.20	Texas State Library & Archives Commission
15.21	Texas State University
15.22	Texas Tech University
15.23	Texas Tech University Health Sciences Center
15.24	Texas Tech University Health Sciences Center El Paso
15.25	Texas Tech University System
15.26	Texas Woman's University
15.27	Trinity University
15.28	University of Houston System
15.29	University of North Texas System
15.30	University of Texas at Arlington
15.31	University of Texas at Austin
15.32	University of Texas at Dallas
15.33	University of Texas at El Paso
15.34	University of Texas at San Antonio
15.35	University of Texas Health Science Center at Houston
15.36	University of Texas Health Science Center at San Antonio
15.37	University of Texas MD Anderson Cancer Center
15.38	University of Texas Medical Branch at Galveston
15.39	University of Texas Rio Grande Valley
15.40	University of Texas Southwestern Medical Center at Dallas
15.41	University of Texas System
16.00	Louisiana Optical Network Infrastructure (LONI)
16.01	Lousiana State University
17.00	MARIA
17.01	City of Harrisonburg
17.02	College of William and Mary
17.03	Fairfax County Public School District
17.04	George Mason University
17.05	Hampton University
17.06	Longwood University
17.07	Norfolk State University Research and Innovation Foundation
17.08	Old Dominion University

17.09	Radford University
17.10	Thomas Jefferson High School for Science and Mathematics
17.11	University of Mary Washington
17.12	University of Richmond
17.13	University of Virginia
17.14	Virginia Commonwealth University
17.15	Virginia Community College System
17.16	Virginia Science Museum
17.17	Virginia Tech
17.18	Virginia Tech Corporate Research Center (VTCRC)
18.00	Maryland Research and Education Network (MDREN)
19.00	Mid-Atlantic Crossroads (MAX)
19.01	American University
19.02	Baltimore Education & Research Network (BERnet)
19.03	Catholic University
19.04	Columbia Telecommunications Corporation (CTC)
19.05	D.C. Government
19.06	Energy Sciences Network (ESnet)
19.07	George Mason University
19.08	George Washington University
19.09	Georgetown University
19.10	Howard Hughes Med. Institute
19.11	Inter-American Development Bank (IADB)
19.12	Internet2, D.C. Office
19.13	Johns Hopkins University
19.14	Johns Hopkins University - Applied Physics Laboratory (JHU-APL)
19.15	Laboratory for Telecommunications Sciences (LTS)
19.16	Library of Congress
19.17	Montgomery College
19.18	NASA / GSFC
19.19	National Archives and Records Administration (NARA)
19.20	National Consortium for Supercomputing Applications / ACCESS
19.21	National Institute of Standards and Technology (NIST)
19.22	National Institutes of Health (NIH)
19.23	National Library of Medicine (NLM)
19.24	National Oceanic and Atmospheric Administration (NOAA)
19.25	National Science Foundation (NSF)
19.26	Smithsonian Institution
19.27	Southern Universities Research Association (SURA)

19.28	U.S. Department of Health and Human Services (HHS)
19.29	U.S. Department of State
19.30	U.S. Department of Veterans Affairs
19.31	U.S. Geological Survey
19.32	U.S. Holocaust Memorial Museum
19.33	Univ. System of Maryland Network (aggregating 11 campuses)
19.34	University of California, D.C. campus
19.35	University of Maryland, Baltimore (UMB)
19.36	University of Maryland, Baltimore County (UMBC)
19.37	University of Maryland, University College
19.38	University of Maryland, College Park (UMD)
19.39	University of Southern California, Information Sciences Institute / East
19.40	USDA, Beltsville Agricultural Research Center
19.41	Washington Research Library Consortium
20.00	Merit Network, Inc. (Merit)
21.00	Missouri Research and Education Network (MOREnet)
22.00	Metropolitan Research and Education Network (MREN)
22.01	Bradley University
22.02	De Paul University
22.03	Illinois Century Network
22.04	Illinois Institute of Technology
22.05	Illinois State University
22.06	Iowa State
22.07	Loyola University
22.08	National Center for Supercomputing Applications (NCSA)
22.09	Northern Illinois University
22.10	Northwestern University
22.11	Notre Dame
22.12	Purdue University
22.13	Southern Illinois University
22.14	Univ. of Chicago
22.15	Univ. of Illinois at Chicago
22.16	University of Illinois at Champaign-Urbana
22.17	University of Iowa
22.18	University of Wisconsin (Madison & Milwaukee)
22.19	Illinois Rural HealthNet
22.20	Iowa HealthNet
22.21	Columbia College

22.22	Lurie Childrens Hospital
22.23	Art Institute
22.24	Illinois Labs Avanced Net
23.00	Networkmaine
23.01	University of Maine System
23.02	Maine State Government
23.03	Bowdoin College
23.04	Bates College
23.05	Colby College
24.00	New Jersey Research and Education Network (NJEdge)
25.00	North Carolina Research and Education Network (NCREN / MCNC)
26.00	Northern Lights GigaPoP
26.01	Concordia College
26.02	Gustavus Adolphus College
26.03	Macalester College
26.04	Northwestern College
26.05	St. Olaf College
26.06	University of St. Thomas
26.07	Augsburg College
26.08	Bethel University
26.09	Carleton College
26.10	College of St. Catherine
26.11	Concordia University
26.12	Hamline University
26.13	North Dakota STAGENet State Network
26.14	North Dakota State University
26.15	Ties
26.16	University of Minnesota
26.17	University of North Dakota
26.18	Luther Seminary
27.00	Northern Crossroads (NoX)
27.01	Boston College
27.02	Boston University
27.03	Brandeis University
27.04	Brown University

27.05	Dartmouth College
27.06	Emerson College
27.07	Harvard University
27.08	MIT
27.09	Northeastern University
27.10	Tufts University
27.11	University of Maine
27.12	University of Massachusetts - Information Technology Services (Umass - ITS)
27.13	University of Massachusetts-Amherst
27.14	University of New Hampshire
27.15	University of Rhode Island
27.16	University of Vermont
27.17	Wellesley College
27.18	Worcester Polytechnic Institute
27.19	Yale University
28.00	NYSERNet
28.01	Albert Einstein College of Medicine
28.02	Alfred University
28.03	American Museum of Natural History
28.04	ARTstor
28.05	Binghamton University
28.06	Broome-Tioga BOCES
28.07	Brown University
28.08	Buffalo State College
28.09	Canisius College
28.10	Capital Region BOCES
28.11	City University of New York
28.12	Clarkson University
28.13	Colgate University
28.14	Columbia University
28.15	Cornell University
28.16	D'Youville College
28.17	Daemen College
28.18	Erie Community College
28.19	Erie / 1 BOCES
28.20	The Frick Collection
28.21	Hofstra University
28.22	Hospital for Special Surgery
28.23	IBM Thomas J. Watson Research Center
28.24	Icahn School of Medicine at Mt. Sinai

28.25	Intrepid Sea, Air & Space Museum
28.26	LeMoyne College
28.27	Long Island University
28.28	Manhattan College
28.29	Marist College
28.30	Monroe 1 BOCES - Monroe RIC
28.31	Museum of Modern Art (MoMA)
28.32	New School University
28.33	New York Genome Center
28.34	New York Public Library
28.35	New York Structural Biology Center
28.36	New York State Department of Health: Wadsworth Center
28.37	New York University
28.38	NYSERNET, Inc.
28.39	Princeton University
28.40	Rensselaer Polytechnic Institute
28.41	Rochester Institute of Technology
28.42	Rockefeller University
28.43	Saint John Fisher College
28.44	Saint John's University
28.45	Saint Lawrence University
28.46	Siena College
28.47	Skidmore College
28.48	South Central Regional Information Center (SCRIC)
28.49	State University of New York (SUNY) at Old Westbury
28.50	State University of New York at Oneonta
28.51	Stony Brook University (SUNY)
28.52	SUNY Canton
28.53	SUNY Geneseo
28.54	SUNY ITEC
28.55	SUNY Old Westbury
28.56	SUNY Oswego
28.57	SUNY Potsdam
28.58	SUNY Upstate Medical
28.59	Syracuse City School District (SCSD)
28.60	Syracuse University
28.61	The College of Saint Rose
28.62	The New York Genome Center
28.63	Touro College & University System
28.64	Union College
28.65	University at Albany (SUNY)

28.66	University at Buffalo (SUNY)
28.67	University of Delaware
28.68	University of Rochester
28.69	Vassar College
28.70	Victor Central School District
28.71	Weill Medical College – Qatar
28.72	Weill Medical College of Cornell University
28.73	Yeshiva University
29.00	OARnet
30.00	ONENET--Oklahoma State Regents for Higher Education
31.00	Oregon Gigapop
31.01	University of Oregon (OWEN/NERO)
32.00	OSHEAN
32.01	NEREN Inc. - North East Research and Education Network, Inc.
32.02	Academy For Career Exploration
32.03	Administrative Office of State Courts
32.04	All Saints Academy School
32.05	Association of Independent Colleges and Universities
32.06	Axia
32.07	Barrington Christian Academy
32.08	Bishop McVinney School
32.09	Blackstone Valley Prep Mayoral Academy
32.10	Blessed Sacrament School
32.11	Block Island Medical Center (New Shoreham)
32.12	Block Island School
32.13	Block Island Utility District
32.14	Bristol Warren School Districts
32.15	Brown University
32.16	Bryant University
32.17	Care New England
32.18	Central Falls School District
32.19	Chariho School District
32.20	City of Providence
32.21	Community Care Alliance
32.22	Community College of Rhode Island
32.23	Coventry School District
32.24	Cranston School District

32.25	Davies Career-Tech High School
32.26	East Bay Educational Collaborative School
32.27	East Greenwich School District
32.28	Eleanor Briggs School
32.29	Exeter/ West Greenwich School District
32.30	Father John Doyle School
32.31	Fitchburg State University
32.32	Foster Gloucester Regional Schools
32.33	FSRI
32.34	Greenville School
32.35	Harmony Hill School
32.36	Hartford Data Center
32.37	Highlander Institute
32.38	Innovate Newport
32.39	International Charter School
32.40	Jamestown Municipal
32.41	Jamestown School District
32.42	Johnson & Wales University
32.43	Johnston School District
32.44	LaSalle Academy
32.45	Lifespan
32.46	Lincoln School District
32.47	Little Compton Public Schools
32.48	Mercymount Country Day School
32.49	Middletown Municipal
32.50	Middletown School District
32.51	Moses Brown School
32.52	Mount Pleasant Academy
32.53	Mount Saint Charles Academy
32.54	Narragansett School District
32.55	Naval Undersea Warfare Center
32.56	Naval War College
32.57	NeighborWorks
32.58	New England Institute of Technology
32.59	Newport Municipal
32.60	Newport Preservation Society
32.61	Newport School District
32.62	North Kingstown Municipal
32.63	North Kingstown School District
32.64	North Providence School District
32.65	North Smithfield School Department

32.66	Northern Rhode Island Collaborative
32.67	Ocean State Libraries
32.68	Our Lady of Mount Carmel School
32.69	Paul Cuffee Schools
32.70	Pawtucket School District
32.71	Pennfield School
32.72	Portsmouth Abbey School
32.73	Portsmouth School District
32.74	Prospect Medical Holdings (PMH)
32.75	Providence Athenaeum
32.76	Providence Center School
32.77	Providence College
32.78	Providence Public Libraries
32.79	Providence School District
32.80	Redwood Library and Athenaeum
32.81	Rhode Island Attorney General's Office
32.82	Rhode Island College
32.83	Rhode Island Department of Education
32.84	Rhode Island Department of Environmental Management
32.85	Rhode Island Housing
32.86	Rhode Island Public Broadcasting System
32.87	Rhode Island Public Radio - RINPR
32.88	Rhode Island Quality Institute
32.89	Rhode Island School for the Deaf
32.90	Rhode Island School of Design
32.91	Rhode Island Secretary of State
32.92	Rhode Island Turnpike and Bridge Authority
32.93	RI Emergency Management Agency
32.94	RI Higher Education Assistance Authority (RIHEAA)
32.95	RI Public Defender
32.96	Riverside School
32.97	Rocky Hill School
32.98	Roger Williams University
32.99	Salve Regina University
32.100	San Miguel School
32.101	Smithfield School District
32.102	Sophia Academy
32.103	South County Hospital
32.104	South Kingstown School District
32.105	South Providence Library
32.106	St Michael's Country Day School

32.107	St. Augustine School
32.108	St. Georges School
32.109	St. Luke's School
32.110	St. Mary Academy Bay View School
32.111	St. Mary Elementary School
32.112	St. Mary's Home For Children School
32.113	St. Patrick Academy
32.114	St. Raphael Academy School
32.115	St. Rocco School
32.116	St. Rose of Lima School
32.117	State of Rhode Island - Department of IT
32.118	State of Rhode Island - Legislative Data Systems
32.119	Stonehill College
32.120	Taunton Municipal Lighting Plant
32.121	Tech Collective
32.122	The Lincoln School (Private)
32.123	The Prout School
32.124	The Providence Athenaeum Library
32.125	Thundermist
32.126	Tiverton School District
32.127	Town of East Greenwich
32.128	Town of New Shoreham
32.129	Town of Portsmouth
32.130	Town of Warwick
32.131	Trinity Academy for the Performing Arts School
32.132	University of Rhode Island
32.133	Urban Collaborative Accelerated Program School
32.134	Volute
32.135	Warwick School District
32.136	West Warwick School District
32.137	Westerly School District
32.138	Wheaton College
32.139	Wheeler School
32.140	Woonsocket School District
33.00	Pacific Northwest Gigapop (PNWGP)
33.01	University of Hawaii
33.02	University of Washington
34.00	Southern Crossroads (SoX)
34.01	Southern Light Rail

35.00	Sun Corridor Network
35.01	University of Arizona
35.02	Arizona State University
35.03	Northern Arizona University
36.00	Utah Education Network (UEN)
36.01	University of Montana
36.02	University of Utah
37.00	WiscNet
38.00	West Virginia Network (WVNET)
38.01	West Virginia Secretary of State