



In this newsletter, you'll find information on how your K-20 research and education community is making use of the high-performance networking and services CENIC provides, how you and your colleagues are using these networking and services to participate in collaborations within California and beyond, other networking-related events, funding, programming, and awards. Thanks for reading!

## News from CENIC



### Connecting California: Exploring the State of Middle- and Last-mile Broadband Funding

All CENIC member institutions benefit by ensuring that all Californians, no matter where they may be, enjoy the opportunities made possible by broadband availability, access, and adoption. However, the challenges associated with the work to bring broadband to middle- and last-mile communities can be almost as large as the opportunities broadband offers. Valuable advice to overcome these challenges and make the most of the opportunities was highlighted during a recent panel at CENIC's biennial conference, "The Right Connection," which took place last March in Monterey. [READ THE ARTICLE >](#)

### 400 Gbps and Beyond: How CENIC Provides the Sustainable Growth in Bandwidth Your Institution Needs



Over a decade ago, the CENIC community had a 10 Gbps CalREN backbone available to them. Today, a greatly expanded CENIC community now enjoys a 400 Gbps backbone, and that forty-fold increase in backbone bandwidth was achieved by CENIC at the merest fraction of equipment, space, and power used in 2010.



How can this be possible – and can both the backbone and end-to-end bandwidth continue to increase sustainably at the pace the CENIC member institutions need? [READ THE ARTICLE >](#)



## **A Community of Innovation: National Research and Education Networks in North America**

The topics of artificial intelligence and machine learning (AI/ML) loomed large throughout the March conference. In addition to CENIC and its members' perspectives on AI/ML, a Monday morning panel discussion with leaders of CANARIE, CUDI, Internet2, ESnet, and CENIC provided the opportunity for them to address how their organizations and user communities approached these topics as major players in the global collaborative REN ecosystem. [READ THE ARTICLE >](#)

## **CENIC's Integrated, Multi-Tool Approach to Network Configuration Management**

Not only is CENIC's California Research and Education Network (CalREN) one of the most extensive and complex regional networks in North America, but it facilitates collaborative research and education in the largest public education and library systems in the world as well as some of the most accomplished private, cultural, and scientific institutions.



And if that community is to retain its leadership position, CalREN must not only remain in operation 24/7/365 no matter what but grow in bandwidth and services to exceed that community's accomplishments. With a well-designed, well-integrated Network Configuration Management system in place, achieving this becomes much more scalable, efficient, and cost-effective. [READ THE ARTICLE >](#)

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## **Community News**





- [UCSD/SDSC, San Diego State, CSU San Bernardino Awarded \\$6.7m by NSF to Grow Community of Cyberinfrastructure Professionals](#)
- [SFJAZZ's Mount Allen Leveraging CENIC to Build Bridges with Jazz](#)
- [The Stumbling Blocks for Artificial Intelligence in K–12 Education](#)
- [First-of-its-kind digital sovereignty center for tribal nations launches](#)
- [37 UC scholars named fellows of the American Association for the Advancement of Science](#)
- [The Rural Revolution is Coming as Generative AI Drives Hyperscale Data Centers \(PDF\)](#)
- [FCC's Reinstatement of Title II Classification of Broadband and Net Neutrality Protections](#)
- [U.S. Department of Commerce Implements Internet Routing Security](#)
- [U Oklahoma Leveraging the National Research Platform to Build a Scalable Research and Education Environment](#)

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## Events & Program Opportunities



- 2024 NSF Cybersecurity Summit: Oct 7-10, 2024, Pittsburgh, PA [LEARN MORE >](#)
- UC Cyber Security Summit: Oct 9, 2024, Irvine, CA [LEARN MORE >](#)
- NANOG 92: Oct 21-23, 2024, Toronto, Canada [LEARN MORE >](#)
- Supercomputing 24: Nov 17-22, 2024, Atlanta, GA [LEARN MORE >](#)

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[About CENIC | www.cenic.org](#)

CENIC connects California to the world — advancing education and research statewide by providing the world-class network essential for innovation, collaboration, and economic

growth. This nonprofit organization operates the California Research and Education Network (CalREN), a high-capacity network designed to meet the unique requirements of over 20 million users, including the vast majority of K-20 students together with educators, researchers, and others at vital public-serving institutions. CENIC's Charter Associates are part of the world's largest education system; they include the California K-12 system, California Community Colleges, the California State University system, California's Public Libraries, the University of California system, Stanford, Caltech, USC, and the Naval Postgraduate School. CENIC also provides connectivity to leading-edge institutions and industry research organizations around the world, serving the public as a catalyst for a vibrant California.

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