



LEADING THE WAY TO TOMORROW'S INTERNET



[About CENIC](#)
[Network](#)
[Services](#)
[Projects](#)
[Associates](#)
[Publications](#)
[Events](#)


PUBLICATIONS

Volume 5, Issue 2
February 2002

IN THIS ISSUE:

Quote of the Month

CENIC News

- CENIC Annual Report
- Save the Date: CENIC Annual Conference, May 5-7, 2002
- COO Search Update
- Optical Networking Planning Meetings

National Networking News

- NSF Middleware Initiative Testbed Program - Call for Participation
- World-Wide Next Generation Internet to be Established for Research and Education
- Internet running out of room?
- Japan's WIDE Network Establishes First Native IPv6 Connection to Internet2's Abilene Backbone Network

About CENIC

- Subscription Information

QUICK LINKS

[CENIC Today](#)
[DCP Today](#)
[GB Today](#)
[Brochures](#)
[Reports](#)
[Presentations](#)
[Video](#)
[Presentations](#)
[Other Documents](#)
[CENIC Home](#)

Quote of the Month

"74 percent of IPv4 addresses belong to North American organizations, with the Massachusetts Institute of Technology and Stanford each owning more addresses than the Peoples' Republic of China" – from a statement issued by the European Commission on the need for Europe to implement Internet Protocol version 6 (IPv6).

CENIC News

CENIC Annual Report

When CENIC was founded in the fall of 1997, critics said they were attempting the impossible.

"There's no way that they'll be able to hold that coalition together," the critics scoffed. "California is just too big. There are too many institutions involved. Their needs are too diverse."

Four years later, CENIC has silenced its critics. CENIC stands now as one of the world's leading providers of advanced network services and one of the most successful developers of advanced- services networks for research and education. CENIC sits at the forefront of an evolving research and education information infrastructure where there are no boundaries— only unlimited potential for new and exciting applications.

To discover more about the successes CENIC enjoyed over the past year, be sure to get a copy of the CENIC 2001 Annual Report. The report can be viewed online at http://www.cenic.org/PR/CENICAR_01.pdf, or a hard copy can be received by sending a request with your mailing address to editor@cenic.org.

Save the Date: CENIC Annual Conference, May 5-7, 2002

CENIC's 6th annual conference will be held on May 5 through 7, 2002 at the Paradise Point Resort in San Diego, California. This is always a great event to learn about new technologies, new networking applications, and meet with your colleagues in a relaxed environment. Be sure to reserve the dates now.

Keep an eye out at <http://www.cenic.org/events/index.html> for the CENIC agenda and registration information coming soon!

CENIC COO Search Update

The search for the first CENIC Chief Operating Officer (COO) continues. The new position, approved by CENIC's Board in late 2001, reports directly to the President, Tom West, and oversees general operations and management of CENIC. The COO is responsible for the effective and efficient operations and quality services of the corporation and acts for the President in his absence. The search committee, chaired by Board Chair John Silvester, has begun its evaluation process and plans to conduct in-person interviews in mid-March.

For more information on the new position please see http://www.cenic.org/DCP_AppTeam/org_funding.html

Optical Network Planning Meetings

Network researchers in Northern and Southern California are collaborating to determine the future needs of experimental/development networks in California. Network researchers from across California are coming together for workshops to document the users of high-speed research networks and the applications that are driving the need for these networks.

The first workshop was held February 5 at Information Sciences Institute, University of Southern California. Led by Cal-(IT)2 director Larry Smarr, the workshop brought together over 30 network researchers from Southern California. A similar meeting is planned in Northern California on March 1 at the UC Berkeley Campus.

The Northern California workshop will be led by CITRIS director Ruzena Bajcsy, and will bring together users of high bandwidth academic networks from Northern California, representatives from the National Laboratories, and representatives from Industry, as well as the providers of such networks and representatives of the Research networking community. Further information on the March 1 workshop can be found at <http://www.citris.berkeley.edu/seminars/workshop-sched.html>.

Source: Cal-(IT)2, CITRIS

National Networking News

NSF Middleware Initiative Testbed Program - Call for Participation

The NSF Middleware Initiative (NMI) is soliciting for institutions interested in participation in a testbed program. Activities of this testbed will specifically support "real life" testing and broad implementation of middleware components developed and packaged under the NMI program as they move from concept and development to useful institutional deployment. These middleware components may be software applications but they may also be policies, recommendations, specifications, services or Application Programming Interfaces (APIs). Additional context and background for the NMI program overall can be found on the NMI Web site at <http://www.nsf-middleware.org>.

Responses are due by March 8, 2002.

Source: NMI

World-Wide Next Generation Internet to be Established for Research and Education

On February 18, 2002, key leaders in advanced networking announced the formation of the Global Terabit Research Network (GTRN - <http://www.indiana.edu/~gtrn>) -an international partnership to establish a true world-wide next generation Internet to interconnect national and multinational high speed research and education networks. The partnership initially involves North America through Internet2 in the US and CANARIE in Canada, and Europe through the NREN Consortium. Participation of the Asia Pacific and other regions is expected soon.

"The scientific community is now truly international in just about all fields, and many vitally rely on the integration of computation, data, instruments and arrays of sensors that enable e-science," said Douglas Van Houweling, president and CEO of Internet2. "The GTRN will provide a framework in which the advanced networking community can collectively manage and provision the global-scale, high-performance, persistent infrastructure required by the research and education community."

The GTRN will support global research and education requiring access to advanced high performance Internet services. The GTRN will be run in a highly transparent manner so that end-to-end performance characteristics will be easily accessible to all parties responsible for ensuring the appropriate quality of service.

Source: Internet2

Internet Running out Room?

The EC announced that business and government leaders in Europe must work harder to shift the Internet infrastructure to run on Internet Protocol version 6 (IPv6) from the current IPv4 to make room for the flood of wireless devices crowding the Net.

Every device that accesses the Internet--such as a PC, a personal digital assistant or a cell phone--needs an IP address. Switching to IPv6 would help meet the growing demand for IP addresses, as the technology allows for more than does the current system.

"Without the 'IPv6 upgrade,' the Internet will inevitably degrade under the mounting pressure of new users and growing traffic while new innovations critical to European competitiveness will be stifled," the EC said in its statement.

The goal is not a new direction for the EC, which has pushed the IPv6 technology for some time and believes the increasing use of mobile Internet devices will only worsen the existing problem.

But the migration to IPv6 will take time and will not be just a matter of turning one technology off and another on. Muayyad Al-Chalabi, an analyst at RHK, says manufacturers must equip every device to run on the new standard. Telecom networks will also need to run both IPv4 and IPv6 during the transition, much like the wireless networks that handle both analog and digital signals today. "The technology has to be in a dual mode for a long time," Al-Chalabi said.

The EC says the current reserve of addresses is expected to run out in 2005.

Source: ZDNet News, Author: Sam Ames

Japan's WIDE Network Establishes First Native IPv6 Connection to Internet2's Abilene Backbone Network

WIDE, the non-profit research consortium in Japan that operates a nationwide network infrastructure as a test-bed for new technologies, in cooperation with Japan's Communications Research Laboratory-CRL, has

established a native IPv6 connection (jointly with CRL in Japan) between Tokyo, Japan and Sunnyvale, California, connecting to Internet2's Abilene backbone network. WIDE is planning to use the new connection to carry out work with interactive digital video over IPv6 with a number of universities in the U.S.

For more information <http://www.wide.ad.jp/> and <http://www.crl.go.jp/>

Source: Internet 2

About CENIC

CENIC is a not-for-profit corporation formed by the California Institute of Technology, the California State University, Stanford University, the University of California, and the University of Southern California to facilitate and coordinate the deployment, development, and operation of a set of seamless and robust advanced network services. The CENIC Associates program offers qualified companies the opportunity to collaborate with CENIC in pursuit of the goal of providing the most advanced network services for research and education. Cisco Systems, Nortel Networks, Pacific Bell, and the University and Community College System of Nevada are CENIC's Partner Associates.

Subscription Information

You can subscribe to CENIC Today by visiting http://www.cenic.org/pubs/c_today/cover.html or by sending e-mail to listproc@cenic.org with the following request in the message body

subscribe cenic-today your email address

To unsubscribe, send email to listproc@cenic.org with the following request in the message body

signoff cenic-today

Website questions: webmaster@cenic.org

Last Update: December 14, 2004