



Internet2(R) Members Update May 2003

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Member updates are now archived at:

<http://members.internet2.edu/memberupdates/index.html>

◇ **Abilene Update**

+ Abilene Observatory

The Abilene Observatory is a program to support basic network research on the Abilene network. The observatory serves network engineers by providing a view of the operational data associated with a large-scale network, and the research community by providing data associated with the fundamental properties of network protocols. There are two components of the program: the collection of data by Abilene engineers that is available to the public, and collocation of equipment in the Abilene router nodes by research groups.

<http://abilene.internet2.edu/observatory/>

+ Network Research Facilitation Project

The Network Research Facilitation Project is a program to provide routing equipment to the research community in support of network research. The Abilene router nodes were recently upgraded to new routers and the original Cisco 12008 routers are now available for use by this program. A proposal process is currently being designed and the first deployment is expected by the end of June. The grants will be yearly in length, with the possibility of renewal. The entire program is expected to last two years. For more information contact Rick Summerhill <rrsum@internet2.edu> or see:

<http://abilene.internet2.edu/observatory/research-projects.html>

◇ **North American Global IPv6 Forum Summit**

Internet2 joined as a sponsor of the upcoming North American IPv6 Forum to be held in San Diego, CA, June 23-27. Internet2 members are encouraged to attend and arrangements have been made for Internet2 members to receive a discounted registration. The IPv6 Forum welcomes everyone interested in meeting the pioneers and time-to-market developers and adopters of the IPv6 Technology. The North American IPv6 Global Summit is the world premier event for the world IPv6 community, providing an international forum for advancing the development and implementation of new generation Internet networks, technologies, applications and policies. For more information see:

<http://www.usipv6.com/>

◁ **Internet2 Spring 2003 Member Meeting**

+ Post Meeting Survey - Chance to Win a Free Meeting Registration!

If you have not already done so, please complete the Spring Member Meeting evaluation form. Your feedback helps enormously in efforts to improve each Member Meeting, and is particularly useful planning begins for the Fall 2003 Member Meeting. By completing the form, you will become eligible for a free registration at the Fall meeting!

<http://events.internet2.edu/2003/spring-mm/evaluation.html>

+ Spring 2003 Meeting Summary on Web

A summary of meeting highlights from the Spring 2003 Member Meeting is now posted on the Internet2 web site: <http://events.internet2.edu/2003/spring-mm/>

◁ **Internet2 Fall 2003 Member Meeting**

Call for Proposals: Fall 2003 Internet2 Member Meeting

The Program Committee for the Fall 2003 Internet2 Member Meeting is seeking proposals for track sessions for the Fall 2003 Member Meeting in Indianapolis, October 13-16. Proposals will be due mid-June. Contact Laurie Burns <lburns@internet2.edu> for further information, and see the Internet2 web site later this month for details.

◁ **Virtual Briefings**

+ May Internet2 Virtual Briefings

The May 2003 Internet2 Virtual Briefing will focus on the implications of a Networking 2003 presentation by Nancy Wong, Director, Office of Planning and Partnerships, Department of Homeland Security. It will also include a panel session on Network and IT Security, with live commentary by leaders in the Internet2 community. See more details about this Briefing: <http://events.internet2.edu/briefings/index.html>

◁ **New Members Named to Internet2 Advisory Councils**

New members for Internet2 Advisory Councils were approved at the Internet2 Board of Trustees meeting on April 13, 2003. For information, see: <http://www.internet2.edu/about/councils.html>

◁ **Applications Update**

+ Internet2 Commons Expands to Include Subscription Services

Now that the Internet2 Commons H.323 videoconferencing service has proven reliable and has built a wide community of users, a formal production plan will advance the Internet2 Commons with several new levels of service. The new services, scheduled for deployment this September, will include blocks of port hours for H.323 conferences using advanced and impromptu scheduling features. The most innovative offering will create a subscription plan for communities with members across institutions, beyond a single campus deployment. This Community plan will allow research groups and other inter-organizational collaborations to benefit from reliable, scheduled videoconferencing. Details on the subscription plans will be published soon. For more information contact Jonathan Tyman, Internet2 Manager for Digital Video <tyman@internet2.edu>.

+ Internet2 Commons Videoconferencing Training, May 18

An Internet2 Commons videoconferencing training session will be held in conjunction with the TERENA Networking conference in Zagreb, Croatia on May 18. This marks the first occurrence of Internet2 Commons training in Europe, and provides an opportunity to broaden both the user and support base for international videoconferencing.

This training will be led by Egon Verharen, Innovation Manager at SURFnet, and Ted Hanss, Internet2 Director for Applications Development, both of whom are members of the Internet2 Commons Management Team. Training topics include:

- Network Overview
- Multipointing Gateways

- Operating and troubleshooting procedures common to videoconferencing systems
- Hands-on use of the equipment

Seats are still available. There is a fee of 50 euros for the training. To register, send an email to: <tnc2003@terena.nl> or see: <http://www.terena.nl/conferences/tnc2003/meetings/h323.html>

◁ International Update

+ New International Exchange Point for Research and Education Networks

Established in New York Manhattan Landing (MAN LAN) is a high-performance, gigabit-ethernet-based exchange point in New York City to facilitate peering among U.S. and international research and education networks. Establishing MAN LAN has been a collaborative effort by Internet2, NYSERNet and Indiana University's Global NOC. MAN LAN, as the "Manhattan Landing" exchange point is known, has been established at NYSERNet's co-location space in building housing many large communications carriers in downtown Manhattan and is operated and monitored by the IU Global NOC.

MAN LAN joins other Internet2 member-led international exchange points such as StarLight, Pacific Wave and AMPATH in providing the Internet2 community the ability to connect at gigabit speeds to advanced research and education network around the world. Internet2's Abilene network is connected at 10 Gbps, GEANT has two 1 Gbps connections and HEANET is connected at 1 Gbps. CA*net4 expects to connect with two 1 Gbps connections and NYSERNet plans to connect at 10Gbps.

http://international.internet2.edu/intl_connect/manlan/

+ Venezuela's REACCIUN-2 and Internet2's Abilene Network Begin Peering Agreement

REACCIUN-2, the high-performance, research and education network in Venezuela, is now peering with Internet2 networks at 45 Mbps via the AMPATH project. REACCIUN-2 will initially connect over 7 universities and research center across Venezuela. REACCIUN-2 is operated and managed by CNTI, Centro Nacional de Tecnologías de Información. CNTI is responsible for stimulating and supporting research, scientific and technology goals and developments of Venezuelan universities and research centers. CNTI has been an Internet2 International partner since October 2002. AMPATH is a project of Florida International university in collaboration with Global Crossing that has enabled connections between Internet2's Abilene network to the national research and education networks of Brazil (2 connections), Chile, Argentina and now Venezuela. For more information see:

CNTI: <http://www.reacciun.ve/>

AMPATH: <http://www.ampath.fiu.edu/>

◁ Middleware Update

+ Shibboleth

The use of Shibboleth continues to grow as additional universities and content providers deploy the software. Enhancements to the code continue with version 1.0 of Shibboleth to be released in the next few weeks. For updates go to: <http://shibboleth.internet2.edu/>

+ Public Key Infrastructure (PKI)

The Internet2/NIH/NIST PKI Research Workshop was held in Gaithersburg, MD, April 28 & 29th, grew in attendance its second year. The refereed papers and summaries are now available at:

<http://middleware.internet2.edu/pki03/>

+ Directories

The Internet2 MACE-Dir working group has identified the creation of a tool to facilitate operational tasks, such as management of, representation of, and access to group information within enterprise directory services, as a high priority activity. A document named SAGE (Service for Authorized Group Editing), recently released as part of the NMI Release 3, is the initial step towards specifying the functional capabilities that it should embody. The working group will now turn its attention to the technical design and creation of the tool.

+ National Science Foundation Middleware Initiative (NMI)

- CAMP - June 3-6, 2003, Boulder, Colorado

The CAMP workshop offers system architects and project managers involved in enterprise middleware deployment an opportunity for learning and guidance on management, policy, implementation and technology, with a special focus on enterprise authentication.

Institutions are encouraged to send the two individuals who most closely match the system architect and project manager roles. Learn more about CAMP and register at:

<http://www.educause.edu/conference/nmi/camp032/>

- Advanced CAMP - July 8-11, 2003, Boulder, Colorado

Save the date for Advanced CAMP, a workshop offering a highly focused, highly technical forum research in middleware technologies with an emphasis on authorization approaches. For further details see:

<http://www.educause.edu/conference/nmi/camp033/>

- NMI Release 3

NMI Release 3 was issued on April 28th, 2003. NMI-R3 includes four new EDIT components -- Look, SAGE, Enterprise Directory Implementation Roadmap, and PERMIS -- which support directory performance monitoring, group management, and service deployment as well as inter-institutional authorization. Also updated for NMI-R3 is Shibboleth, an architecture and suite of software used for accessing customized or restricted content and services while protecting privacy. The Components are available at: <http://www.nsf-middleware.org/NMIR3/components.asp>

◁ End-to-End Performance Initiative (E2Epi) Update

+ piPEs/ AMI and OWAMP

There were over 60 attendees for the joint piPEs/Web100 Rollout session at the Spring Member Meeting (April 10). Development on piPEs continues in the aftermath of the Spring Member Meeting; recent progress includes continued development of Iperf and trace route testing code, performance enhancements to the performance result database, and refinement of the web interface for viewing performance results. We are also engaged in planning for presentations at UCL E2E workshop, the TERENA conference, and GGF8.

+ piPEfitters

Iosef Legrand (CERN) and Shawn McKee (University of Michigan) gave presentations on MonaLisa (MONitoring Agents using a Large Integrated clientS Architecture) during the piPEfitters session at the recent Internet2 Spring Member Meeting; MonaLisa is an easy-to-use, host-end measurement tool. There is some interest in tying this effort in with piPEs. For more information, see

<http://www.internet2.edu/presentations/spring03/20030408-pipefitters-Legrand.htm> and

<http://www.internet2.edu/presentations/spring03/20030408-pipefitters-McKee.htm>.

+ E2E Measurement Sponsored Interest Group (SIG)

During the E2E Measurement SIG session at the Internet2 Spring Member Meeting, Kevin Walsh (SDSC/UCSD) presented information on a problem an NPACI researcher was having with poor network performance from one of his two labs at UCSD and Mladen Vouk of (NC State) described the development of an open source toolset that assesses and predicts end-to-end performance of video sessions using distributed agents. A summary of this session (with links to the presentations) is available at:

http://e2epi.internet2.edu/SMM03/SMM_Measurement_summary.html

+ Campus Network Infrastructure (CNI) Guide

A draft outline was posted for review/comment on the E2Epi web site; many additional comments were collected at the Internet2 Spring Member Meeting. A summary of topics discussed (with a list of attendees) is available at: http://e2epi.internet2.edu/SMM03/SMM_CNI_summary.html

+ National Library of Medicine (NLM)

E2Epi is conducting a pilot study on user expectations, the results of which will help NLM to determine if a more extensive study is needed or will be of use to them in policy decisions. Eighteen people attended the E2Epi/NLM Pilot Study Update session at the Internet2 Spring Member Meeting. On April 16, the Phase

II report was submitted to NLM. The project is seeking potential interviewees (health sciences/health care community using networks); if you know of anyone who might be interested in participating, please send contact information to George Brett <ghb@internet2.edu>.

+ Peer-to-Peer (P2P) Working Group

At the Spring Member Meeting, the group discussed the new Campus Bandwidth Management WG, updates from the security subgroup, additions to the Peer-to-Peer (P2P) Working Group website, deployment of Lionshare (a federated P2P application) at Penn State, use of Onobee at the University of Oregon (a multi-collaborative tool), and international concerns. Thirty-five members of the WG attended; session notes have been posted at:

http://e2epi.internet2.edu/SMM03/SMM_P2P_summary.html

◁ **Internet2 K20 Initiative Update**

+ Wisconsin's WiscNet Named SEGP of the Month

WiscNet, a cooperative Educational Service Provider in Wisconsin connects over 500 educational members to Internet2. WiscNet's membership includes 75% of Wisconsin's K-12 schools, including Milwaukee Public Schools. For more information on WiscNet, please see the Internet2 K20 website:

<http://k20.internet2.edu/segp/index.html> or <http://www.wiscnet.net>

◁ **Member-to-Member Announcements**

Ixia, an Internet2 sponsor, is providing state-of-the art network analysis equipment to Internet2 as part of the company's commitment to furthering advancements in Internet research and development. The new equipment will be used in the build-out and testing of networks for Internet2 member meetings and other Internet2-sponsored events as well as for advanced traffic analysis and testing. This new program builds upon the Ixia University Partners Program, which was established in June 2002 to provide traffic generation and analysis equipment to Internet2 universities. For more information, contact email: <partners@ixiacom.com> or visit <http://www.ixiacom.com/>.

jaalaM Technologies announces the appareNet" Network for Academics (aNA), a cooperative network test environment available to North American academic institutions. The aNA program provides academic institutions and research organizations with access to appareNet network measurement and problem determination software, for use within and between eligible institutions in support of network operations and network-specific research projects. For more information on the aNA program visit: <http://www.jaalam.com/ana>

◁ **Future Internet2 Events**

+ Summer Joint Techs Workshop

The University of Kansas will host a meeting of Joint Techs August 3-7 in Lawrence, Kansas. The agenda will include a combination of advanced technology, infrastructure updates, and case study sessions. The special focus areas for this meeting will be Optical Networking, Security, and Network Tuning and Performance Monitoring. Birds-of-a-Feather (BOF) meetings will again be encouraged.

<http://www.ncne.org/training/techs/2003/0803/jt-lawrence.html>

+ Fall 2003 Internet2 Member Meeting

Indianapolis, Indiana will be the site of the Fall 2003 Internet2 Member Meeting. The meeting is scheduled for October 13-16. As details of the meeting become available, they will be announced on the Internet2 website. <http://www.internet2.edu>

◁ **Internet2 Days**

Hold an Internet2 Day for your Internet2 member organization. Technical support for live demonstrations and informational materials are available. For more information contact Marianne Smith

<melser@internet2.edu> or see: <http://apps.internet2.edu/Internet2-Days.php>

◁ **Showcase and Spotlight Opportunities - Projects and People**

A Showcase on the Internet2 Web site is a great way to highlight the milestones, events, collaborations and efforts that are a result of your work in the advanced networking community. You are also encouraged to

submit a profile of anyone in the Internet2 community whose efforts merit notice. Include a brief description (less than 100 words), all appropriate links and images, and contact information. If you have suggestions about projects, people or news that might be featured, please contact Adam Csillag <acsillag@internet2.edu>.

<> **Internet2 Related Events**

+ Online Calendar

For a complete listing of events for and of interest to the Internet2 community, see the online Internet2 Calendar. Be sure the Internet2-related event you are holding or know about is listed at:
<http://events.internet2.edu/>

If you are holding an event of any kind related to Internet2, we will be glad to assist members with resources such as printed publications, equipment or speakers. Please contact Marianne Smith for more information <melser@internet2.edu>.

+ HPDC-12: The Twelfth IEEE International Symposium 22-24 June, 2003

Sheraton Seattle Hotel and Towers

The Twelfth IEEE International Symposium on High-Performance Distributed Computing will be a forum for presenting the latest research findings on the design and use of highly networked systems for computing, collaboration, data, analysis, and other innovative tasks. Submissions are encouraged on all aspects of Grid and high performance distributed computing. Case studies describing novel applications are also of interest. A more complete list of topics can be found at:
<http://www-csag.ucsd.edu/HPDC-12/>.

+ The 8th Global Grid Forum (GGF8)

24-27 June, Seattle, WA

Sheraton Seattle Hotel and Towers

With the theme "Building Grids: Obstacles and Opportunities", this GGF will update global Grid practitioners, enthusiasts and researchers on the current state of Grid technology. The GGF8 program will include esteemed Keynote Speakers, Technology Updates, Application Updates, Industry Updates and Special "Grid Debate" Panels. The plenary session, BoF's, workshops, WG/RG Sessions and tutorials will round out the four day program. More information about GGF8 can be found here:
<http://www.globalgridforum.org/Meetings/ggf8/default.htm>.

CENIC 2003 Conference

7-9 May

San Diego, CA

<http://www.cenic.org/CENIC2003/index.htm>

TERENA Networking Conference 2003

19-22 May

Zagreb, Croatia

<http://www.terena.nl/conferences/tnc2003/>

NANOG 28

1-3 June

Salt Lake City, UT

<http://www.nanog.org>

Workshop on Advanced Collaborative Environments (WACE 2003)

22-24 June

Seattle, WA

<http://www.mcs.anl.gov/fl/events/wace2003/index.html>