



Internet2 (R) Members Update September 2004

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Member updates are archived at: <http://members.internet2.edu/memberupdates/>

◇ Fall 2004 Internet2 Member Meeting

The Fall 2004 Internet2 Member Meeting, hosted by the University of Texas at Austin, will take place 27-30 September in Austin, TX. The Fall 2004 Member Meeting will focus on innovative applications and the underlying high-performance network infrastructures that enable them. In addition to the technical and plenary sessions, the Fall program will include 90 side meetings, including workshops, task force meetings, BoFs, and tutorials, as well as advanced applications demos, poster sessions, and a corporate perspective forum. All meeting attendees are welcome to attend the Internet2 101, Applications 201, and E2E Tools tutorials on 27 September.

Meeting Agenda: <http://events.internet2.edu/2004/fall-mm/agenda.cfm>

Poster sessions: <http://events.internet2.edu/2004/fall-mm/postersessions.html>

Corporate Perspectives Forum: <http://events.internet2.edu/2004/fall-mm/corpperspectives.html>

+ Registration and Lodging

If you have not already done so, please register now for the meeting. You can avoid an additional \$50 fee by registering prior to 10 September. To register, see <http://events.internet2.edu/2004/fall-mm/registrationintro.cfm>

Please book your room for the meeting as soon as possible. Meeting rates are still available on a first come, first serve basis. Check with the hotel directly for room rates.

<http://events.internet2.edu/2004/fall-mm/hoteltravel.html>

+ Performance Event and Reception

On Tuesday evening, 28 September, a performance event will take place on the University of Texas at Austin campus. This event will feature the world-renowned Miro Quartet and showcase the use of cutting-edge networking and streaming technologies. The performance will take place in two venues: one where the audience will see and hear the quartet in person and another where the audience will see it via live, streaming High Definition Television (HDTV) and hear it through 11-channel, immersive surround-sound.

During intermission, the audiences will switch venues giving each a chance to experience both versions of the performance.

+ Fall Member Meeting Sponsors

Cisco Systems, Global Crossing, Juniper Networks, Polycom, and Qwest Communications are making generous sponsorship contributions to the Fall Member Meeting. Internet2 gratefully acknowledges the critical support provided by these corporate members.

Additional sponsors are still welcome for several Member Meeting activities. Sponsors will be acknowledged via signage at the event site, in the published event and meeting programs, and on the meeting web site. We are open to suggestions regarding other ways to acknowledge generous support. For more information please contact Ellen Vaughan <evaughan@internet2.edu>.

+ Fall 2004 Internet2 Member Meeting Demos

The advanced networking applications demonstrations at the Fall member meeting will showcase a broad range of technologies and include participation by university, corporate, affiliate, and international members. The demos will feature applications such as emergency medical services, collaborative visualization and segmentation, network traffic analysis and proactive protection, tele-collaboration of medical imaging for surgical planning, Internet2 Commons videoconferencing and collaboration tools, IPv6, streaming 3D over Internet2, among others. Applications demonstrations at Internet2 Member Meetings provide attendees with a first-hand view of the potential and reality of advanced networking applications and allow the Internet2 members who demonstrate to showcase their work to an international audience and seek new collaborators for their projects.

<http://events.internet2.edu/2004/fall-mm/demos.html>

◁ **Internet2 Workshops**

A number of workshops will be held in conjunction with the Fall 2004 Internet2 Member Meeting.

+ Internet2 Commons Hosts Training and Demonstrations

The Internet2 Commons will present an H.323 workshop and will also host demonstrations of the latest collaboration technologies at the Fall Member Meeting. On 27 September, gather with other H.323 implementers for an introduction to H.323, its complexities and supporting technologies. Experts from Internet2 member institutions will cover topics on network diagnostics and troubleshooting, SIP and H.350, Gatekeepers, and a review of Data Collaboration applications and considerations. To find out more or to sign up, visit:

<http://commons.internet2.edu/train/200409/>

+ Voice over IP (VoIP) Workshop

The Voice over IP (VoIP) Workshop will be held 30 September through noon 1 October. This hands-on workshop will provide an overview of emerging voice over IP (VoIP) technologies, including: the session initiation protocol (SIP), IP-based voice disaster recovery, IP-TDM media gateways, and VoIP quality monitoring. Working in several small groups, attendees will bring up several working VoIP systems in a testbed environment. Attendees will learn to configure a SIP proxy, to add SRV and NAPTR records to DNS, and to provision SIP hard and soft phones. Attendance may be limited to ensure that the workshop is focused and interactive. Cost is \$300. For registration and other details see:

<http://voip.internet2.edu/meetings/200409-workshop/>

+ DVTS Training Workshop, hosted by the Internet2 Commons

DVTS Training will be available 30 September. This half-day tutorial will be an informal opportunity to learn about this emerging technology and its applications for video conferencing and streaming. The session will include an overview of multicast, DVTS, DV/IP, costs, bandwidth requirements and associated production considerations such as lighting and audio. There will be an opportunity for attendees to gain hands-on experience with DV software and hardware configurations. Registration for this workshop is full. Please send an email to meetingregistration@internet2.edu to be added to the waiting list. There is no fee to attend.

<http://events.internet2.edu/2004/fall-mm/DVTS-Details.html>

+ NMI Testbed Results Workshop

The NMI Testbed Results Workshop will take place Thursday afternoon, 30 September through Friday noon, 1 October. There is no fee but registration is required. Participants may contact Mary Fran Yafchak <maryfran@sura.org> NMI Testbed Manager to register. Please include attendee's name, job title, institutional affiliation, email address and telephone number. Full agenda information will be available in the coming weeks on the NMI Testbed Website:
<http://www.nsf-middleware.org/testbed/meetings/I2workshop04/agenda.html>

◁ Corporate Relations Update

+ Microsoft Windows Update Offers Unique Network Research Opportunity

As an Advanced Content Distribution Project, Internet2 Corporate Partner Microsoft is augmenting existing download paths for the newly released Windows XP Service Pack 2 with a link to the Abilene backbone network. While the Abilene link will be seamlessly incorporated into existing Windows Update infrastructure from a user perspective, this project presents a unique opportunity to gather information about large-scale software distribution over a nationwide high-performance network infrastructure. Network measurement and other data will be captured for the duration of the project and provide the basis for applying the lessons learned during this project to similar efforts in the Internet2 community. More information about Advanced Content Distribution Projects is available at:
<http://members.internet2.edu/corporate/cfp-contentcollab.html>

+ HOPI Corporate Advisory Team Formed

Internet2's Hybrid Optical Packet Infrastructure (HOPI) project will now benefit from the guidance of the newly formed HOPI Corporate Advisory Team (CAT). HOPI-CAT is composed of distinguished individuals from Internet2 corporate members with technical expertise in packet and circuit switched technologies, control plane design and implementation, measurement technologies, and management of hybrid networks. HOPI-CAT will assist in implementing innovative ideas in testbed environments, testing basic principles and features, engaging standards bodies to create viable operation standards, and promoting the transfer of new ideas to the marketplace and community.
<http://networks.internet2.edu/hopi/hopi-cat.html>

+ Call for Advanced Content Project Proposals

Internet2 is actively seeking proposals for advanced content projects designed to help our member community better understand content application performance; best practices for content and applications developers; and best practices for applications management and monitoring; and ways that advanced content-based applications can support the teaching, research, and clinical missions of our universities. All Internet2 members are invited to submit proposals, and corporate members are encouraged to participate.
<http://members.internet2.edu/corporate/cfp-contentcollab.html>

+ The RADVISION Users Group

The RADVISION Users Group is a new organization that will serve as a forum and information clearinghouse for administrators of RADVISION videoconferencing equipment. The Group has the full cooperation of the RADVISION Corporation, and will communicate with the company directly. Our first full meeting will be at the Fall 2004 Internet2 Member Meeting in Austin, TX on Tuesday, 28 September, and will include a discussion with RADVISION Corporation officers. If you are an administrator of RADVISION equipment working in higher education and are interested in attending our session at the Internet2 meeting, or would just like more information, please RSVP to Justin Bondi:
<j-bondi@northwestern.edu>.

◁ ESCC/Internet2 Joint Techs Workshop Recap

The 14th Joint Techs Workshop, organized by ESCC and Internet2, took place 18-21 July at Ohio State University. Topics included switched optical networking; implications of switched optical networking for network architectures in general, measurement infrastructure deployments, security implications of new network technologies, and working with commercial partners.

Summary: <http://eng.internet2.edu/joint-techs-jul-2004.html>

Presentations: <http://events.internet2.edu/2004/JointTechs/Columbus/agenda.cfm?event=218>

◁ Internet2 Commons and Partners Demonstrate Remote Collaboration

At the Fall 2004 Internet2 Member Meeting, the Internet2 Commons and others will demonstrate technologies that support remote collaboration: the H.323 multipoint videoconferencing service; the Access

Grid community; the LoCI distributed store and forward infrastructure; and corporate members RADVISION, Polycom, First Virtual, Tandberg, VBrick, Microsoft Research, WaveThree Software, and VCON.

<> **Applications Update**

+ Transatlantic Howl! A Virtual Poetry Reading in Celebration of Allen Ginsberg
Internet2, and several collaborators, will host a transatlantic poetry reading on 14 October honoring Allen Ginsberg and his epic poem HOWL. Poets will perform at venues in London, Paris, and across the United States in celebration of Ginsberg, the renowned poet and champion of human rights. This live, interactive event will be simultaneously streamed across JANET, Renater, and Internet2 advanced networks to audiences at each site. It will also be netcast to an Internet-wide audience for viewing with QuickTime, RealPlayer, or Windows Media Player. Featured readers include Amiri Baraka, Anne Waldman, Anne Carson, and many more. Anne Waldman and Ann Doyle, Internet2 Program Manager for Arts and Humanities Initiatives, will serve as MCs for this event.

<http://arts.internet2.edu/howl.html>

+ Reserve Loaner Equipment Now for Fall Events

Are you planning a workshop, Internet2 Day, or other activity on your campus? Why not take advantage of Internet2's loaner equipment offerings? Internet2 members may request loaner equipment such as the Internet2 portable Access Grid, VBrick 6200 MPEG-2 Encoder/Decoders, Polycom ViewStation FX, the Internet2-developed Cakebox (for network performance measurement), and more. Members who request equipment are responsible for shipping costs to and from their locations. In addition to loaner equipment, you may also request a variety of publicity materials including signs, banners, folders, and brochures for your events. To learn more about the equipment and materials available to the Internet2 community, refer to our demo equipment Web page and then complete the online request form.

<http://apps.internet2.edu/roadshows.html>

<> **International Update**

+ International Activities at the Fall 2004 Internet2 Member Meeting

All international attendees are cordially invited to the International Reception on Sunday evening, 26 September. Activities of interest to the international community include the International Taskforce Meeting on 27 September; "IEEAF and the Global Internet2 Community," scheduled for 28 September; and, on 29 September, a panel discussion of new advances in the worldwide distribution of scientific information and cultural events ("Watch Worldwide Cultural Events over Advanced Networks") as well as a session on international connectivity efforts among Internet2 members and international partners to support research and education ("Taking Advantage of International Connectivity: Global Collaborations").

<http://events.internet2.edu/2004/fall-mm/agenda.cfm?event=219&day=&track=26&details=on>

+ Chinese American Networking Symposium Conference

The Chinese American Networking Symposium (CANS) conference will be held 30 November to 2 December in Miami, FL. Networking experts from China and the United States gather annually at the Chinese American Networking Symposium to discuss new ideas and advancements in networking technologies. The annual programs, alternately held in the USA and China, include presentations by networking experts, panel discussions, and executive and technical breakout sessions. Internet2, along with the Chinese Association for Science and Technology (CAST-USA) and the China Education and Research Network (CERNET) and China Science and Technology Network (CSTNET) are organizers of the event. The CANS2004 conference builds on successful past conferences organized and hosted by the University of Maryland in 1999 and 2001. CANS2004 will be hosted in Miami at the Kovens Conference Center at Florida International University.

<http://www.canscouncil.org>

+ Internet2 International Task Force Meeting

The Internet2 International Task Force (ITF) Meeting will be held 27 September at the Fall 2004 Internet2 Member Meeting in Austin, TX. The bi-annual ITF meeting will focus in the morning around two roundtable discussions on topics of interest to the international networking community. The afternoon session will provide updates on advanced networking, middleware, applications and related initiatives from

around the world. The afternoon session will be especially suitable for newcomers or other meeting attendees who would like to learn more about Internet2 international partners' activities.
<http://international.internet2.edu/resources/events/2004/FallMMintl.html>

◁ **Middleware Update**

+ National Science Foundation Middleware Initiative (NMI) Workshops
Register Now for the Upcoming CAMP Identity Management and Enterprise Authentication Workshops. Join us for the upcoming CAMPS focused on Identity Management (15-17 November) and Enterprise Authentication (18-19 November) in San Diego, CA. To register and find out more information, refer to:
<http://www.educause.edu/conference/nmi>

+ Signet/Grouper Update:

Signet and Grouper Project teams have begun to look at User Interface design sketches. The plan is to present the design sketches at the Fall 2004 Internet2 Member Meeting for feedback from attendees. Work on underlying schema continues, most recently addressing the notion of "subject." Subjects in this sense can be people as grantors or as members, organizations as owners, applications as program agents, etc. The current focus is to define a useful and adequate set of common attributes for such subjects. For details on Grouper, see: <http://middleware.internet2.edu/dir/groups/>

The Signet Working Group has released a Call for Participation (CFP) for the Signet Privilege Management System - Early Adopters Program.
For Signet, see: <http://middleware.internet2.edu/signet/>

+ InCommon

InCommon is a production federation for enterprises that want to use shibboleth to share resources. Many content providers focused on the higher education community are now ready to use shibboleth and this federation will facilitate working with these content providers in a trusted environment. InCommon is expected to be open for business in mid-September. Watch the InCommon web site for the official announcement.
<http://www.incommonfederation.org>

◁ **Security Update**

+ SALSA-NetAuth Working Group
Internet2 will hold a SALSA Security Briefing on 23 September 1:00-2:00 pm EDT, in the form of a conference call. During this briefing, a panel will discuss the recent draft proposal "Strategies for Automating Network Policy Enforcement" and solicit feedback. Eric Gauthier, of Boston University, will serve as the moderator.

Limited space is available for the SALSA Security Briefing so please register soon at the following location: <http://security.internet2.edu/briefings/>

The Document can be found at:

<http://security.internet2.edu/netauth/docs/draft-internet2-salsa-netauth-summary-02.html>

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

The E2Epi is hosting five sessions at the upcoming Fall Member Meeting in Austin, Texas; a schedule of these and other end-to-end related sessions is available at:
<http://e2epi.internet2.edu/FMM04/index.html>

+ E2E piPEs (End-to-End Performance Initiative Performance Environment System)

Several projects, including E2E piPEs and the H.323 Beacon, were recently cited in a white paper published by Wainhouse Research entitled "Super-Size Bandwidth and Two-Way Video in the Classroom."
<http://www.wainhouse.com/files/papers/wr-internet2nVC.pdf>

+ OWAMP (One-Way Active Measurement Protocol)

Stanislav Shalunov, Internet Engineer, presented at the IETF 60 meeting Internet Protocol Performance Metrics (IPPM) Working Group on changes to the Internet2 implementation of this one-way latency

protocol.

<http://www.internet2.edu/~shalunov/talks/20040802-SanDiego-IETF60-OWAMP.pdf>

Based on discussions at this meeting, Shalunov revised the draft protocol and released an updated version of the paper. The next release of Internet2's OWAMP (1 October 2004) will conform to the new specifications.

<http://www.internet2.edu/~shalunov/ippm/draft-ietf-ippm-owdp-10.txt>

+ NDT (Network Diagnostic Tool)

The University of Hawaii recently added an NDT server to their network.

<http://farnsworth.uhnet.net:7123/>

+ GGF NM (Global Grid Forum Network Measurement) Working Group

A full-day (two session) meeting is scheduled in Brussels, Belgium for 21 September; Warren Matthews will be presenting the revised Request Schema trial data.

◁ **K20 Initiative Update**

+ Upcoming K20 Events at the Fall 2004 Internet2 Member Meeting

Here is an advanced peak at what the K20 Initiative has put together for the Austin meeting:

http://k20.internet2.edu/files/pdf/K20_Event_Schedule0904.pdf

◁ **Internet2 Showcases and Spotlights**

Pulver.com is the parent company of Free World Dialup, the world's leading Internet telephony community, and the Voice on the Net (VON) conferences, which focus on the convergence of the telecom and Internet industries. Building on a rapport with the Internet2 community developed over several years, including participation at the first Internet2 SIP.edu Implementors workshop, Pulver.com has recently become an Internet2 Corporate Member.

For more Internet2 showcases, see:

<http://www.internet2.edu/pastshowcases.cfm>

+ Member Spotlight: Jeff Pulver

Jeff Pulver, President and CEO of pulver.com, Inc., is a globally respected visionary with more than a decade of experience in Internet and IP communications. He is the author of: Internet Telephone Toolkit (1996/Wiley), the publisher of The Pulver Report, and creator of the Voice on the Net (VON) conferences. Mr. Pulver is the founder of The VON Coalition, Free World Dialup, LibreTel and a co-founder of Vonage, WHP Wireless, pulverInnovations, VON Magazine, and Digisip.

For more member spotlights, see:

<http://www.internet2.edu/pastspotlights.cfm>

Showcases and spotlights highlight exemplary milestones, events, collaborations, and people within the Internet2 community. Send suggestions about projects, people or news to <publications@internet2.edu>.

◁ **New Internet2 Members**

+ Corporate Members

- VCON Inc.

<http://www.vcon.com>

- Meriton Networks

<http://www.meriton.com>

◁ **Future Internet2 Events**

+ Transatlantic Howl! A Dedication To Allen Ginsberg

14 October, 2:00 pm EDT (UTC-4)

Virtual Event

<http://arts.internet2.edu/howl.html>

◁ **Internet2 Days**

+ University of Arizona

4 November
Tucson, AZ
<http://computing.arizona.edu/internet2/internet2day.html>

+ Wichita State University
11 November
Wichita, KS
<http://www.wichita.edu>

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/host-Internet2-day.html>

<> **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/calendar/main.php>

+ Global Grid Forum (GGF12)
20 - 23 September
Brussels, Belgium
<http://www.ggf.org/>

+ Third Annual e-VLBI Workshop
6-7 October
Makuhari, Japan
<http://www2.nict.go.jp/ka/radioastro/evlbi2004/>

+ Grant Makers in the Arts 2004 Conference
17-20 October
Cleveland, OH
http://www.giarts.org/conf_04/conf04_index.html

+ Voice on the Net (VON) - Fall 2004
18 - 21 October
Boston, MA
<http://www.pulver.com/von/>
Internet2 university members are invited to register for the VON full conference package at the rate of \$600 by registering with the priority code INTERNET2.

+ EDUCAUSE 2004
19 - 22 October
Denver, CO
<http://www.educause.edu/conference/annual/2004/>

+ SC2004
6 - 12 November
Pittsburgh, PA
<http://www.sc-conference.org/sc2004/>

+ Chinese American Networking Symposium 2004
30 November – 2 December
Miami, FL
<http://www.canscouncil.org/>