

Internet2 Update

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Internet2

- New R&E Network membership category
- New Advisory Councils
- New network infrastructure
- Continued progress broadly supporting members in meeting the cyberinfrastructure challenge



Today – Governance progress

- Councils active and engaged
- Strategic review of activities and programs
- Continued progress on new governance structure

The year ahead

- Support Internet2's strategic planning process
- Improve partnership and communications with our regional network members and connectors
- Continue focus on operational excellence and continuous improvement in network availability, request-to-delivery workflow, communications and cost effectiveness of the Internet2 network
- Differentiate static and dynamic circuit service offerings; operationalize dynamic circuits with RON's and campuses
- Expand participation in CPS by both peers and connectors.

Internet2 Financial Plan

- Preserve strategic capability to enable community decisions
- Refined income projections
- Leaner organization
 - Staff reduction
 - More than 20 people, 12 FTE
 - Expense reduction
 - HOPI, travel, network
- 2008 Board-approved budget in balance
 - Start and end with over \$2M in reserve
 - Limited 2008 contribution to depreciation
- Stable Fee Structure

Internet2 Network Infrastructure and Capabilities

- 13,500 long-haul route miles
- Capabilities
 - Initial 100 Gbps capacity
 - Rapidly reconfigurable and flexible
 - Multiple, independent networks supporting:
 - Production applications
 - Experimental networking
 - Network research



Internet2 Network

ciena



INDIANA UNIVERSITY

infinera



Juniper
NETWORKS

Level(3)
TECHNOLOGICAL



- Internet2 Network Optical Switching Node
- Level3 Regen Site
- Internet2 Redundant Drop/Add Site
- E3net Drop/Add Site
- Router Site

- CONNECTORS**
- 3ROX
 - CENIC
 - CIC OmniPoP
 - Drexel University
 - GPN
 - Indiana GigaPoP
 - LEARN
 - LONI
 - MAGPI
 - MAX
 - MCNC
 - Merit Network
 - MREN
 - NOX
 - NYSERNet
 - OSCnet
 - Pacific Northwest GigaPoP
 - SoX
 - UEN
 - University of Louisville
 - University of Memphis
 - University of New Mexico
 - University of Oregon
 - University of South Florida

Internet2 Network Services

- Reliable production IP
 - IP Network's Commercial Peering Service
- Internet2 Dynamic Circuit Network
- WaveCo - Static Circuits
 - Internet2 infrastructure and beyond
 - 50 Mbps to 10G and beyond
- FiberCo - Dark fiber (and ancillary services);
 - professional services

FCC RHCPP and Internet2

- FCC announced 69 awards totaling more than \$400M
- Internet2 has envisioned supporting connections through network connectors
- Activities for awardees and connectors:
 - Every Friday 1:00 EST community-led, Internet2-sponsored calls
 - Face-to-face connector meeting (planning committee convened)
 - 2 events at SMM
 - All day meeting focused on RHCPP
 - Connector panel describing their experiences with RHCPP

Additional slides: Council
rosters

Architecture and Operations Advisory Council (AOAC)

Diane Barbour
Rochester Institute of
Technology

Ron Johnson
University of Washington

Brian Voss
Louisiana State University

Dan Blumenthal
UCSB

Harvey Newman
Caltech

Rick Stevens
Argonne National Lab

Ron Hutchins
Georgia Institute of
Technology/SoX

Dave Jent
Indiana University/Global NOC
Chair

Dave Lois
University of Wisconsin,
Madison/WiscNet

Wes Kaplow
Qwest

Martin Nuss
Ciena

Jack Waters
Level 3 Communications

William Johnston
ESnet

George Loftus
OSHEAN
Vice Chair

Paul Schopis
OSC

Applications, Middleware & Services Advisory Council (AMSAC)

Jim Bottum
Clemson University

Hui Zhang
Carnegie Mellon University

Rick Rashid
Microsoft

Sally Jackson
University of Illinois, Urbana-
Champaign

Jim Deaton
OneNet

Ray Ford
University of Montana
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Jack Suess
University of Maryland,
Baltimore County
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Mark Johnson
MCNC

Bill Mitchell
MOREnet

Mike Ackerman
National Library of
Medicine, NIH

Amy Philipson
Pacific Northwest GigaPoP

Janet Poley
American Distance Learning
Consortium

Parvati Dev
Stanford University

Dennis Elwell
Verizon

Mike Nelson
IBM

Research Advisory Council (RAC)

Rosio Alvarez

Lawrence Berkeley National
Lab

James Hilton

University of Virginia

Pete Siegel

University of California,
Davis
Chair

David Bader

Georgia Institute of
Technology

Dave Farber

Carnegie Mellon University

Alan Whitney

MIT Haystack Observatory

Shaun Abshere

WiscNet
Vice Chair

Guy Almes

LEARN/Texas A&M

Wendy Huntoon

Pittsburgh Supercomputing
Center

Douglas Comer

Cisco

Sandy Fraser

Fraser Associates

Drew Perkins

Infinera

kc claffy

CAIDA

Cliff Lynch

CNI

Mary Ann Martone

University of California,
San Diego

External Relations Advisory Council (ERAC)

Larry Conrad
Florida State University

Gary Augustson
Pennsylvania State University
(Retired)

Dave Lambert
Georgetown University
Vice Chair

Jeff Schiller
MIT

George Thoma
National Institutes of Health

Farnam Jahanian
University of Michigan, Arbor
Networks

Jim Dolgonas
CENIC

Tim Lance
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Merit

Bob Brammer
Northrop Grumman

Stuart Kippelman
Johnson & Johnson

Jim Williams
LEARN

Mike Laing
United Nations

Mark Luker
EDUCAUSE