

JET Meeting Minutes

October 18, 2011

I. Participants

John Baird	DREN	Baird@hpcmo.hpc.mil
Abdella Battou	MAX	abattou@maxgigapop.net
Greg Bell	ESnet	bell@es.net
Rich Carlson	DOE	rcarlson@ascr.doe.gov
Jan Eveleth	PNWGP	eveleth@cac.washington.edu
Andy Germain	NASA/GSFC	Andrew.M.Germain@nasa.gov
Dave Hartzel	NASA/Ames	dhartzell@arc.nasa.gov
Kevin Kranacs	NASA	kevin.m.kranacs@nasa.gov
Paul Love	NCO	epl@sover.net
Bryan Lyles	NSF	jbl2403@earthlink.net
Joe Mambretti	Northwestern U/MREN	jmambretti@northwestern.edu
Grant Miller	NCO	miller@nitrd.gov
Anne Richeson	Qwest	anne.richeson@qwest.com
Don Riley	U Md	drriley@umd.edu
Chris Robb	Internet2	chrobb@internet2.edu
Brent Sweeny	Indiana	sweeny@indiana.edu
Kevin Thompson	NSF	kthompso@nsf.gov
George Uhl	NASA/GSFC	george.d.uhl@nasa.gov
Alan Verlo	UIC/StarLight	verlo@uic.edu

Action Items

AI: Contact Jan Evelyth <eveleth@cac.washington.edu> if you would like to use P-Wave's 10 G link from LA to SC11

AI: Paul Love and Rich Carlson will draft a statement on naming conventions for perfSONAR IPv4 and IPv6 tools.

Proceedings

This meeting of the JET was chaired by Kevin Thompson of the NSF.

Review of the August action items identified that:

- Bobby Cates will be scheduled to talk about TIC status in a future JET meeting
- The JET needs to hold a discussion about naming IPv4/IPv6 perfSONAR tools

JETnet Roundtable

DREN: John Baird

Unable to give an update due to ongoing procurement activity.

ESnet: Greg Bell

ESnet will bring a 100 G wave to Seattle. The 100 G wave will go from SC11 to NERSC and to ANL and StarLight. They will try to get to ORNL. They just completed the first ping from Sunnyvale to Chicago on the 100 G wave. ESnet will also provide multiple 10G links to SC11.

ESnet has added a visualization capability on its user portal <my.es.net>.

Internet2: Chris Robb

Internet2 recently held their fall member's meeting in Raleigh. Internet2 received its first 100 G transcontinental wave from New York to Sunnyvale, with service also to Chicago. It is using 100 G cards and was implemented 1.5 weeks ago at the time of the Internet2 Member's Meeting in Raleigh. That network is now passing traffic and is using 2 percent of the capacity. A pathway is also being configured from Salt Lake City to Seattle. Level 3 is commissioning the links and it is expected to be operative this week. It includes an IP network. Peering was added with Box.net, a cloud provider. Last night maintenance completed the transition off the Infinera to a Ciena box in Chicago.

NOAA, NWave: Dave Hartzel

NOAA NWave is working with the Pacific NorthWest GigaPoP to implement connections to Seattle. The circuit into Asheville, North Carolina is almost complete.

NREN: Dave Hartzel

NASA is decommissioning the backbone network and is working with CENIC to maintain services.

A-Wave: Don Riley

Nothing new to report

P-Wave: Jan Evelyth

P-Wave is implementing a Layer 2 path across the Northern Tier network for ESnet's Advanced Networking Initiative. It is expected to be operational end2end in the February 2012 time frame. Sites on this link will include Missoula, Bozeman, Fargo, a site in Wisconsin (to be determined). These intermediate sites may not be up at initial turn-up. P-Wave will provide a dedicated 10 G link from LA to Seattle for SC11. P-Wave is continuing to upgrade its ports and capacity.

AI: Contact Jan Evelyth <eveleth@cac.washington.edu> if you would like to use P-Wave's 10 G link from LA to SC11

TransPac and ACE: Brent Sweeney

The connection to China is still in progress. Equipment will be installed in LA in October for connectivity to P-Wave.

ACE has a LAG'd 2 x 10 G from MAN LAN to Amsterdam. Traffic over these links has been 12-13 G. The ACE installation at the McLean WIX is proceeding. The first circuit to Frankfurt is completed but not yet operational.

Exchange Points**PNWGP: Jan Evelyth**

The PNWGP is implementing Layer 2 transport over the Northern Tier fabric

MAX: Abdella Battou

The MAX is installing 100 G using a Fujitsu transponder for a link from NASA to McLean. They will coordinate with Internet2 for connectivity to Seattle. MAX is implementing a joint international exchange in McLean (WIX). I2 has a suite in-place for the WIX and has a Brocade Layer 2 100 G switch on order. The cards are arriving today. This will support service from NASA to the WIX to Chicago.

StarLight: Alan Verlo

In October, StarLight supported demonstrations at a technology showcase in Ottawa after provisioning a 100 Gbps testbed between StarLight and Ottawa. StarLight is being prepared to support GENI demonstrations at GEC12 and SC11 as part of the SCinet Research Sandbox. StarLight is also part of a multi-organizational consortium preparing 100 Gbps demonstrations at SC11, in part based on a new multi-100 G exchange being implemented at the facility. They are also working with multiple organizations, including CERN and MREN, to connect Midwestern sites to LHCONE, especially in the Chicago and UMich areas.

MAN LAN: Chris Robb

MANLAN is upgrading its Cisco 6513 switch to a Brocade MLX box next week. They are implementing their first 100 G connection to the ANI router next week at 32 Avenue of the Americas.

Ames Exchange Point: Dave Hartzell

Ames Exchange Point implemented hardware for the Ames TIC last week.

Goddard Space Flight Center

GSFC is supporting demonstrations to SC11.

Naming of perfSONAR IPv4 and IPv6 tools

All tools should have unique names. There are 2 ways forward, provide unique names for perfSONAR IPv4 and IPv6 tools or provide a flag to assume either IPv4 or IPv6 with a switch to the other configuration if it is needed. The new version 3.12 of perfSONAR that was just issued may address the naming issues. JET should, ultimately, issue a Best Practices Memo to guide the community on naming of the perfSONAR IPv4 and IPv6 tools.

AI: Paul Love and Rich Carlson will draft a statement on naming conventions for perfSONAR IPv4 and IPv6 tools.

Meetings of interest:

November 2-4	GENI Engineering Conference, Kansas City, MO
November 12-18	SC11, Seattle, WA
November 13	Tutorial on Green Computing & Green Networks at SC11. 9:00AM-5:30PM, Room Leonesa III, Grand Hyatt
January 22-25, 2012	ESCC/Internet2 Techs Workshop, Baton Rouge, LA
January 22-25, 2012	GLIF meeting, Baton Rouge, LA
January 25-26, 2012	ESCC, Baton Rouge, LA
February 13-17, 2012	APAN, Chiang-Mai, Thailand
March, 2012	US-India workshop on network cooperation, Washington, DC
April 22-25, 2012	ARIN, Vancouver, BC
April 23-25, 2012	Internet2 Spring Member Meeting, Arlington, VA
Week of January 13th, 2013	Techs in Paradise (APAN, Jt Techs & ESCC), Honolulu, HI

Next JET Meetings

November 16, 10:00-12:00 PST, Room 204, Washington State Convention Center, Seattle, WA nb: Held in conjunction with SC11

December 20, 11:00-2:00, NSF,. nb: Only held if essential.

January 24, 2012, 7:45-10:15PM CST, Baton Rouge, LA, nb: Held in conjunction with the Winter Jt Techs