

JET Meeting Minutes

June 15, 2010

Action Items

1. If you need P-Wave connectivity to SC10 please contact Jan Eveleth at: eveleth@u.washington.edu
2. If you have an interest in attending the July 7-9 perfSONAR Workshop in Washington, DC please send a note to Eric Boyd or Matt Zekauskas with a brief description of why you want to attend, your interests, and your potential contributions.
Eric Boyd: eboyd@internet2.edu
Matt Zekauskas: matt@internet2.edu

Proceedings

This meeting of the JET was coordinated by Vince Dattoria of DOE and Paul Love of the NCO.

PerfSONAR Testing

Joe Metzger is coordinating cross-domain testing of perfSONAR among the science networks. He received requests from UTN and Brent Sweeney (NLR) to participate in the cross-domain testing of perfSONAR. Other participants include Internet2, DOE, and NOAA. Joe is preparing a description of testing points. They are planning to start perfSONAR testing by the end of May 2010. Policy issues related to releasing perfSONAR testing data will be discussed at the next Joint Techs meeting. ESnet, Internet2 and NLR are expected to freely share their data. Other testing of perfSONAR is being carried out internationally including GEANT.

Network Roundtable

DREN: John Baird

Nothing new to report

ESnet: Joe Burescia

ESnet is testing 100 G cards for router blades of two vendors.

Internet2: Dale Finkelson

Internet2 is transitioning its ION service from Ciena to MXs to enable building services across Juniper platforms. They are building connection configurations and determining if they work.

NOAA: Mark Mutz

NOAA is implementing its N-Wave network. Almost all the equipment has been received for their 2nd hardware buy including DC power controllers and Cisco equipment. They will implement service first in Denver, then in Chicago by the end of June. A

schedule for implementing the services has not yet been established.

TransPac: Brent Sweeney

NSF announced its IRNC awards which include a TransPac3. They are awaiting funds to initiate tenders. APAN is the TransPac3 partner. The bandwidth they install will depend on the pricing they obtain. Service will be Ethernet if TransPacific service can be obtained. They plan to support dynamic circuits. Connectivity will land in Los Angeles and Tokyo with service throughout the Pacific region.

C-Wave: Kevin McGrattan

C-Wave is adding a node in Raleigh where the first connection will be to RENC.

EOS: Andy Germain

EOS is testing their link from Goddard to the MAX and is observing almost 10 G throughput.

P-Wave: Jan Evelyth

P-Wave is working with NLR and Internet2 to provide wave services to SC10 in New Orleans.

AI: If you need P-Wave connectivity to SC10 please contact Jan Evelyth at: evelyth@u.washington.edu

Ames Exchange Point: Dave Hartzel

The Ames Exchange Point is installing new hardware. They will be supporting the NASA Cloud Service (Nebula). They plan for functionality by the end of the summer.

StarLight2: Alan Verlo

StarLight2 is supporting the July 20-22 GENIE meeting at UCSD. They are also supporting inter-domain services for GLIF.

ManLAN

Nothing new to report

College Park Exchange Point: Peter O'Neil

The College Park Exchange Point is supporting connectivity from NASA to StarLight at 40 G. They are also supporting the July 20-22 GENIE meeting and the co-located Quilt meeting. They received three proposals for 100 G optical gear to replace their Movaz gear and are awaiting NSF support to implement these changes.

PerfSONAR Workshop: Eric Boyd

There is a perfSONAR Workshop in Washington DC, July 7-9. They have 85 registered participants. July 7 will provide a perfSONAR tutorial. July 8 will provide an overview of perfSONAR. There will be breakout groups to develop the workshop recommendations. The workshop is intended to provide recommendations for

perfSONAR research, how to operate the infrastructure and how the community will govern perfSONAR going forward.

AI: If you have an interest in attending the July 7-9 perfSONAR Workshop in Washington, DC please send a note to Eric Boyd or Matt Zekauskas with a brief description of why you want to attend, your interests, and your potential contributions.
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PerfSONAR Testing: Joe Metzger

The perfSONAR testing project sent out a URL describing their testing. (<http://code.google.com/p/perfsonar-ps/wiki/JETPerfSONARDemo>)
Bandwidth has been established between multiple domains. Testing is ongoing and results are being collected. They have not yet documented the difficulties in publishing data. Some agencies have reservations and policies about sharing data, most do not. The project will fill out the mesh of testing among the domains. They have been testing bandwidth data and intend to do latency testing in the future.

IPv6 Update

Mark Prior maintains a Web page characterizing the status of IPv6 deployment. It is at: http://www.mrp.net/IPv6_Survey.html

Qwest presentation on TIC Architecture: Shawn Carroll

Shawn Carroll of Qwest presented a briefing on Trusted Internet Connections (TICs) from an industry perspective. The TICs are intended to:

- Reduce government internet connections
- Improve the government's security posture
- Provide a secure and seamless environment

and provide several other functions

Qwest's Managed Trusted Internet protocol Service (MTIPS) provides Internet access, Einstein filtering, a Security Operations Center (SOC), and an MTIPS network for TIC portal connectivity. MTIPS security includes firewall service, anti-virus management service, intrusion detection and prevention, email scanning, and service enabling devices.

Qwest MTIPS service provides:

- Gateways through two hosting centers
- Security appliances
- VPNS service based on MPLS
- Internet access and
- Connectivity to US-CERT and Qwest SOCs.

MTIPS supports access by Ethernet (1 Mbps to 10 Gbps), ATM, and dedicated IP up to OC48. Optional services include: encryption, policy enforcement, encrypted DMZ, forensic analysis, and others.

For the complete briefing, please see:

<http://www.nitrd.gov/Subcommittee/lsn/jet/JetMeetingDetail.aspx>

Meetings of interest

July 20-22: UCSD GENIE Meeting

August 9-13 APAN, Hanoi, Vietnam

August 16-18 NASA IT Summit, Washington, DC

August 16-19 DREN Networking and Security Conference, Monterey, CA

August 28-September 1 NSF/NASA/LSN Highly Dynamic Networking Workshop,
Ames Research Center, Mountain View, CA

October 13-15 GLIF Meeting, Geneva, Switzerland

November 13-19 SC10, New Orleans, LA

Next JET Meeting

July 13, 2010, 7:45-10:15PM, University Plaza Hotel, Columbus, OH.

In conjunction with the Summer ESCC/Internet2 Jt Techs

August 17, 2010, 11:00-2:00: NSF