

JET Meeting Minutes
April 18, 2006

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Action Items

1. Anyone with experience running a secure Grid system, please contact James Cook of DREN
2. NLR will send a message to the JET when its VLAN maps have been published on a Web site.
3. NREN will report at the Joint Techs meeting on lessons learned from working with endusers on optimizing their network performance.
4. Grant Miller will send JET Federal agency members a list of security projects currently supported under the LSN PCA. These members are requested to inform Grant Miller of any additional security programs they are aware of that are supported by their organizations under the LSN.

Proceedings

This meeting of the JET was coordinated by Paul Love of the National Coordination Office.

JETnet Roundtable

Abilene

Internet2 is not renewing their contract with Qwest. They are in negotiations with another carrier to provide backbone Abilene services and expect a decision by the end of April. Qwest support will end October 2007.

Abilene added the Springfield school district in Vermont. Tenet (South Africa) was added at 150 Mbps.

Abilene no longer advertises all research routes for IPv6 and Multicast, only those directly provided by Abilene.

ESnet

ESnet is considering alternatives for connectivity to CLARA. They are currently using Abilene to reach CLARA. ESnet met with MIT regarding support for their High Energy Physics requirements. MIT plans to obtain dark fiber from New York City to the Level3 PoP in Boston. ESnet will collocate a router at that PoP and use a lambda on the MIT fiber.

DREN

DREN is working with DISA to move research and engineering customers onto DREN. They are providing their peering requirements to Brent Sweeney (Abilene). DREN is providing connectivity to Alaska for NISN using a VLAN.

DREN needs to implement security with a Grid network to support classified and unclassified applications.

AI: Anyone with experience running a secure Grid system, please contact James Cook of DREN.

NISN

NISN issued an operational requirements document for a WAN upgrade. Responses are due in June. NISN is doing security accreditation for FISMA. They have an NSR process to implement a security checklist. Plug-in systems are reviewed to specify their configuration to determine if they meet security requirements.

NISN expects to complete transition of all ATM services to optical network services by July 2006.

HOPI

HOPI is considering design alternatives for extension of HOPI to over a southern route. They are carrying out this design analysis in conjunction with their design of Abilene's next generation network. The southern route is expected to go through Washington, DC, Atlanta, Houston, El Paso, and LA. It may also implement a Houston to Chicago link.

Several new projects are running on HOPI. Martin Sweeney is performing file transfers over HOPI using hybrid networking. The file is sent to a local host where it enters the HOPI network that has been dynamically configured to deliver the file to a host local to the recipient address. At the recipient local host the file enters the local

networking of the recipient. Under a second project, they are examining interdomain control plane activities with respect to GMPLS. They are identifying if vendors can accommodate a request for 1 Gbps service across the network using GMPLS. These two projects are two to six months from initiating.

National LambdaRail

PacketNet, NLRs Layer 3 network, is operational. It is connected to Pacific Wave and StarLight. They are waiting for connectivity to MANLAN. NLR will be sending out requests to peer at places where NLR connects. NLR VLAN maps for their FrameNet, Layer 2 service, will be published on a Web site shortly

AI: NLR will send a message to the JET when its VLAN maps have been published on a Web site.

Peerings on PacketNet are limited to NLR members. USGS, TransPac and UltraLight are currently peering.

NREN

NREN has no changes. The 10 Gbps link from Ames to Goddard is operational. NREN is working with endusers to optimize their networking for performance.

AI: NREN will report at the Joint Techs meeting on lessons learned from working with endusers on optimizing their network performance.

NGIX-West

NGIX-West is waiting to light up the 1400 Kifer building. They expect to turn up a couple of lambdas and increase services in an ordered fashion. Equinix will be there some time in May. WDM will be implemented on the Ames to 1300 Kifer link.

Seattle NW GigaPoP

NLR is now available on Pacific Wave. The GigaPoP is working with Gloriat to connect Hong Kong and Singapore.

StarLight

StarLight is connecting a 10 Gbps from the Louisiana Optical Network Initiative (LONI). They are supporting the OptiPuter project. They have installed a Calient upgrade to their PXC switch with GMPLS capability. They are working with MCNC on the Enlighten project.

MANLAN

MANLAN is waiting for a circuit to London

AWave

AWave is finalizing their plans and working on MOUs. They expect operations of a 10 Gbps wave in the summer of 2006. A link from Brazil to Miami is already in place. They are waiting for the link from Miami to New York.

ONT3 Workshop

The third Optical Networking Testbed workshop (ONT3) is being held September 7-8 in Tokyo. This is a change of dates due to a conflict of schedules for key participants. ONT3 will now precede the GLIF meeting of 11-13 Sept 2006. Attendance at both the ONT3 Workshop and GLIF is encouraged.

Meetings of Interest

April 24-28 Internet2 Members Meeting, Arlington, Va.

April 27-28: Performance Measurement workshop, Un. of VA,

<http://e2epi.internet2.edu/npw/uva/netperf-roster.cfm>

July 16-20 Performance Measurement workshop in coordination with the Joint Techs meeting

August 21-25 DREN Network Workshop, Rolnert Park, Sonoma, California

July 16-20 Joint Techs meeting, ESnet, Internet2, Madison, Wisconsin

May 21-26, NISN Customers Forum, San Antonio, TX

LSN Security Programs

The Networking and Information Technology Research and Development (NITRD) Program Component Areas (PCAs) are in the process of revising their definitions to assure the proper division of programs and funding among the PCAs, particularly in the area of security. The Cyber Security and Information Assurance PCA and the High Confidence Software and Systems (HCSS) PCAs also have responsibility for aspects of security. The NCO is assembling a list of security programs currently reported under the LSN. They request your input to identify other LSN security programs.

AI: Grant Miller will send JET Federal agency members a list of security projects currently supported under the LSN PCA. These members are requested to inform Grant Miller of any additional security programs they are aware of that are supported by their organizations under the LSN.

Briefing on Network Management Tool, IPv6 Validation

NISN, Ken White briefed the JET on their survey of IPv6 network management tools. For a detailed discussion of the tools, please see Ken's briefing on the JET Web site: <http://www.nitrd.gov/subcommittee/lsn/jet/>

The tools they surveyed for IPv6 compliancy included:

- CiscoWorks 2000/RWAN
- CiscoWorks 2000/LMS
- CiscoSecure ACS
- Cisco Transport Manager
- EHealth, LiveHealth
- SYSTEMedge
- HP OpenView Network Node Manager (NNM) and Extended Topology
- Correlation Designer
- JUNOScope

- JUNOS
- Micromuse
- NGenius Performance Manager
- SecureID ACE Server
- CIA Agent
- SNMP Security Pack
- Solaris 8, 9, 10

They are also surveying additional tools.

Next JET Meetings

May 16, 11AM-2PM, NSF Rm 1150, NSF

June 20, 11AM-2PM, NSF Rm 1150, NSF

July. Week of July 16 at the Madison, Wisconsin Joint Techs Meeting