

## Spring 2007 Internet2 Members Meeting – TransPAC2 minutes

### Topic

- Introductions
- Background context
  - good discussion at the Internet international session with a good background of what the future Internet2 network would look like
  - generally (exclusively?) International connections connect to international exchange point
  - most popular Asian pacific Exchange point is Pacific Wave
- Pacific Wave Update
  - new optical infrastructure between Hawaii, Los Angeles and Seattle
    - 15454 in Hawaii
    - 15454 in LA (818 W 7th Street)
    - HDXc in Seattle
    - working with the GLIF
    - currently OC-192 capacity; can be increased very easily
  - Layer2 connectivity
    - 3 locations in Los Angeles
      - 1 Wilshire
      - 600 W 7th
      - 818 W 7th
    - NUS (National University of Singapore) migrating from Seattle to LA
    - NLR established peering with ESNET
    - working with Google to get connections in Seattle, Sunnyvale and LA
    - OC-192 now in service between LA and Seattle
    - 42 active or in-progress participants
    - 14 private LANs currently provisioned
    - investigating ways of providing additional usage metrics
      - trying to avoid overreporting data and working around privacy issue
      - Layer2 flow data
      - Layer3 flow data
      - route collector for depicting participant reachability
  - Dynamic Services
    - no current plans to solidify on a particular dynamic signalling project; but there is interest
    - wait and see which signaling project becomes the standard
- GENI Project
  - not necessarily a project to build a network, though that may be a part of it.
  - not an experimental facility; production-level, though investigation is part of the initial approach

- GENI Project Office (GPO) working on taking the current plans and developing a timeline and direction for the overall project
  - Jim Williams believes it will be an 18-24 month effort
  - take vague ideas and translate them into something more concrete that can be taken to the NSF and proposed for funding
- GENI's relationship to the IRNC projects
  - GENI facility will be something completely new and completely different
  - Jim: hope is that the GPO will consider all of the available NSF resources when developing their proposal to the NSF, including the international IRNC links
- Kevin Thompson (NSF): GENI is in a very early stage at the NSF
  - funding mechanism (MREFC) is a one-time fund that funds the build-out of large facilities; not research and on-going cost
  - GPO announcement should occur soon
  - ample opportunities over the next 1-2 years to engage the NSF in GENI discussions
  - facility will be more than just a collection of backbone links, but will also comprise new services (new protocols, security mechanisms, etc.)
  - goal to simultaneously support different projects on different scales
- Internet2-NLR Merger update (Heather Boyles)
  - three letters released to the community
  - one month ago: intent to merge
  - Network Planning Team
    - Rick Summerhill, Steve Cotter, Wendy Huntoon, John Silvester
    - determine the topology of the network
    - task force lead by Charlie Catlett
  - recently: formation of merger task force
    - chairs the same as the Network planning team
  - no clear direction for the consolidation of the two networks; conversations underway in the Network Planning Team
- TransPAC2 circuit
  - currently 10G layer3 connection between LA and Tokyo
    - circuit up for renewal in the next 6 months
    - what kinds of services do the TransPAC2 community wish to have offered over the new TransPAC2 circuit?
  - topology of future network
    - dynamic services?
  - Japanese position
    - most of the TransPAC2 application occur over Layer3
    - point to point activities currently occur over JGN2 links
  - Layer2 services

- SINET and JGN2 interested in Japan
- KOREN in Korea
- 2 separate issues: technical ability to provide Layer2 point to point services; ability to dynamically signal layer2 sub-circuits
- Health Care collaborations; very concerned about privacy; may be a good application for dynamic signalling