

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

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27 February 2003

TO: Distribution
FROM: Alan R. Whitney
SUBJECT: 26 February 2003 e-VLBI telecon summary

Attendees:

Lee Foster, Pat Gary, Kevin Kranacs – GSFC

Tom Lehman – ISI-E

Rick Larkin, Peter Schulz – MIT Lincoln Lab

Kevin Dudevoir, Hans Hinteregger, Arthur Niell, Alan Whitney – Haystack Observatory

This telecon is one of an ongoing series of telecons to prepare for gigabit/sec e-VLBI demonstrations between NASA GSFC and MIT Haystack Observatory using a combination of network facilities including all or part of Glownet, Bossnet, ISI-E, SuperNet, Max and GSFC/HECN.

ACTION ITEMS ARE HIGHLIGHTED IN RED.

Project Report

- The project report is awaiting the final input from Steve Bernstein. People are also invited to suggest other references to include. When this arrives, Alan will incorporate it, distribute the updated draft, and allow a comment period of 3 days before declaring it final. [Following the telecon, Steve informed Alan that LL must be clear the document before release; hopefully this will be a very quick process.]
- Draft report is now on web at ftp://web.haystack.edu/pub/e-vlbi/demo_report.pdf, but without Glownet/Bossnet section.

Glownet/Bossnet

- Rick Larkin reported that the dedicated GigE wavelength on Glownet is now in place and final approvals are being sought. In the meantime, this wavelength is available for testing. **Kevin will begin testing again within the next few days.**
- Leases for fiber and huts expires 31 October 2003. LL is working with Qwest to find sponsors to continue the Bossnet program.
- Peter reported he is working with Tom Lehman to try OC-48 again on Bossnet within the next few days to a week; the presence of OC-48 will not affect the existing GigE wavelength on Bossnet.

GigE switches

- Haystack has received the GigE switches to replace the borrowed LL switches. Kevin will do some testing on the switches before they are installed at Haystack and Westford. Several people are interested in the results of tests on these inexpensive switches; for instance, Pat recently talked with the CEO of Extreme who indicated that Extreme switches are more expensive, in part, because they have more buffering, implying that the cheaper switches might not perform as well in some circumstances, particularly in high-sustained-load traffic. This needs to be tested.

Routing at ISI-E

- Tom needs subnet addresses of target addresses on Abilene. **Kevin and Alan will gather these and send to Tom.**

Connection to GGAO

- Pat reported a 2 dB loss was observed on the link from GSFC Bldg 28 to GGAO. No problem could be found in the fiber. Surprisingly, a re-boot of the Extreme 5i switch seems to have fixed the problem; reason is unknown. The connection to GGAO should be back in service within a day or so.

Connection to Hawaii

- Two Dell PowerConnect GigE switches needed to complete the Hawaii link are now at Haystack. They will be tested at Haystack before shipping to Kokee Park, Kauai. Link from Hawaii to Haystack should begin testing within a couple of weeks.

Connection to USNO

- All arrangements have been made for a GigE fiber connection to USNO, but USNO still has budget problems and a go-ahead has not yet been issued.

Update of nuttcp

- Bill Fink has a new revision of nuttcp in the works, but not yet quite ready for release; release expected within a couple of weeks.

New funding opportunities at NSF

- Pat noted that NSF has posted two new program solicitations in the NSF/CISE (Computer and Information Science and Engineering) division. NASA is looking into possibilities of putting together a proposal.

Haystack is hiring

- Haystack is in the process of hiring a network research person to assist with the work under the

IEEAF

- IEEAF is a foundation headquartered at U. MD. that is collecting donations of international high-speed fibers. There is presently a 10Gbps link across the Atlantic and a somewhat lesser link across the Pacific, both of which may be available for research use. More information is available at <http://www.ieeaf.org/>.

Next telecon

Next telecon is scheduled for **Wed, 19 March 2003** at 2 pm EDT.

xc: Steve Bernstein, LL
Jim Calvin, LL
Rick Larkin, LL
Lorraine Prior, LL
Peter Schulz, LL
Leslie Weiner, LL
Herbert Durbeck, GSFC
Bill Fink, GSFC
Lee Foster, GSFC
Pat Gary, GSFC
Chuck Kodak, GSFC
Kevin Kranacs, GSFC
Paul Lang, GSFC
Aruna Muppalla, GSFC
Bill Wildes, GSFC
Dan Magorian, UMCP
Tom Lehman, ISI
Jerry Sobieski, Max
Richard Crowley, Haystack
Kevin Dudevoir, Haystack
Hans Hinteregger, Haystack
Arthur Niell, Haystack
Joe Salah, Haystack