

**MASSACHUSETTS INSTITUTE OF TECHNOLOGY**

**HAYSTACK OBSERVATORY**

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19 December 2002

TO: Distribution  
FROM: Alan R. Whitney  
SUBJECT: 18 December 2002 e-VLBI telecon summary

Attendees:

Lee Foster, Pat Gary, Kevin Kranacs– GSFC

Tom Lehman - ISI

Kevin Dudevoir, Hans Hinteregger, Mike Titus, 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.**

Status Reports

The following status updates were reported:

- Pat Gary said he continues to be excited by e-VLBI type of applications and is interested in continuing participation even if the proposal to NASA is not funded. Tom concurred; if the NASA proposal fails, other funding avenues will be sought.
- GGAO is still in the process of relocating the antenna to a permanent pad. Projected completion time is late January 2003. e-VLBI activities at Haystack will be limited until GGAO is back on-line again.
- Haystack is pursuing installation of a dedicated wavelength on Glownet for e-VLBI use. This would be much more convenient for everyone than the current exclusive-scheduled-use arrangement currently in place.
- The proposed USNO/MAX connection through GWU is currently awaiting a go-ahead from USNO. All arrangements have been made with GWU, NASA and MAX. Apparent holdup is due to continuing budget problems at USNO, but we are hopeful they will be able to move ahead with this.
- The Hawaii-to-Haystack connection is awaiting the procurement of about \$2K worth of equipment by NASA. Haystack is in contact with Bill Wildes regarding this.
- Tom reported that all MTU's have been tweaked to 9000 bytes in the whole path; requires re-testing of entire path.
- Tom will speak with Jerry about the best use of \$50K that Haystack has for use at MAX from

Haystack's new NSF project.

- Tom reported that the MAX-to-Abilene OC-48 connection is now in place.
- Tom reported that ISI-E will have a direct OC-48 connect to Abilene via an ISI-E Juniper M40 router. This will allow, among other things, a direct connection from Bossnet to Abilene without loading MAX, which may be advantageous for some uses. Should be in place sometime mid-January 2003.
- Tom reported that plans are still in place to upgrade Bossnet to 10 Gbps using equipment from Nortel. First need to get OC-48 operating properly, which is still being sorted out. Hope to have 10 Gbps in place by about end of spring 2003.
- Pat is interested in pursuing upgrading NASA connection to MAX to 10 Gbps, assuming that MAX would eventually also upgrade to 10 Gbps.
- Question of what DARPA's role will be in future of high-speed networking? Currently up in the air since new DARPA director has come on board. Should have a much better feeling by about April.

### Report Status

Alan has received input from Tom Lehman, Bill Fink and the folks at Lincoln Lab and is beginning to put the report together. Input is still needed from Kevin Dudevoir. Alan will circulate as draft as soon as possible.

### Next telecon

Next telecon is scheduled for **Wed, 22 January 2003** at 2 pm EDT.

xc: Steve Bernstein, LL  
Jim Calvin, LL  
Lorraine Prior, 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