TO: Distribution  
FROM: Alan R. Whitney  
SUBJECT: 16 September 2002 e-VLBI telecon summary  

Attendees:  
Lee Foster, Bill Wildes – GSFC  
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.**  

The meeting attendance for this telecon was particularly light, as you can see from the attendees list above, perhaps due to the Yom Kippur holiday.  

**Status Reports**  

We had limited status reports, as follows:  

- Bossnet has been up and down over the past couple of weeks while LL has been diagnosing and fixing the problems. Problem was finally fixed just last Friday and back on air again.  
- Kevin D. has been able to transfer ~700 Mbps between Haystack and Westford using two simultaneous Mark 5 transfers. He expects the number to increase somewhat with tuning.  
- One Mark 5 is in place at GGAO and another is ready to ship (is now there), but testing has been delayed due to Bossnet interruptions. Kevin expects to be back on air for testing between Haystack and GGAO very soon.  
- Alan reported that, although a firm date has not yet been set, the likely date of the next international e-VLBI workshop is the week of 12 May 2003 in Dwingeloo, The Netherlands. It will most likely be a 2-day meeting. We will plan to organize a U.S. e-VLBI workshop at Haystack Observatory about one month in advance of that date.  
- Alan distributed a draft outline (attached) for a report on the Haystack/GGAO e-VLBI demonstration project, but it was not discussed due to the small attendance at the telecon. Discussion has been deferred until the next telecon.
Other News

- Alan reported that the Japanese have requested a small test e-VLBI experiment in early October 2002 to transmit data from Haystack to Kashima, Japan. The intent is for Haystack data to travel over Bossnet and peer with Abilene at ISI-E (UMCP?). Tom Lehman is working on the arrangements, but reports that the link may be down in early October due to a fiber-provider change at the end of the FY. An alternative path to Abilene through Lincoln Lab is being discussed with Steve Bernstein and Lorraine Prior. The trans-Pacific link is over GEMnet at a maximum speed of ~20 Mbps, so this will be a fairly low-speed demo.

- Bill W. reported progress towards establishing a test e-VLBI link from Kokee Park, Hawaii to Haystack. Only a couple of critical pieces are not yet in place, both right at Kokee Park; if all goes well, it may be possible as early as the end of this year to transmit e-VLBI data from Kokee Park to Haystack at OC-3 speeds.

Next telecon

Next telecon is scheduled for Wed, 2 October 2002 at 2 pm EDT. Please check you calendars and let us know ASAP of any conflicts.

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
Draft e-VLBI Project Report Outline (for discussion)
13 Sep 2002

Executive Summary - Alan
Introduction - Alan
What is VLBI? - Alan
Why e-VLBI? - Alan
Goals of the 1-Gbps e-VLBI Demonstration - Alan
Elements of the 1-Gbps Demonstration
  Mark 5 VLBI Data System - Alan
  Bossnet – Steve/Lorraine/Peter
  ISI-E/Max – Tom/Jerry
  GSFC Networks – Pat/Bill F./Paul/Kevin K./Dan
  Haystack/GGAO – Kevin D./Alan/Bill W.
Results of e-VLBI Demonstration – Alan
Recommendations for further work/Future Directions in e-VLBI - All
Summary - Alan