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19 September 2002

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

Attendees:

Lee Foster, Bill Wildes – GSFC

Kevin Dudevior, 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