The MASTS Project
The story so far . . .

A lot of people
Iain Phillips doing the talking . . .

July 12, 2007
Talking about measuring a 10gig network is easier than actually doing it.
So what are the problems?
History

- Started 2005 (September (ish))
- LU, Cam, UCL
- Aim to capture packets, process and visualise results
- People come and go . . .
Problems

- The network is not 2.5Gig.
- Research Network or Network Research.
- Political — Can we break the network?
- Legal — Can we see the data?
framing and political difficulties
Capture

Switch | * | TELECITY

PC<-----/  Capture + Strip
PC       Buffer
PC       ---Send to UCL---->

+-----------------+ (Andrew Moore)
She hasnae got the power cap’n!

+--------+
|Switch   | TELECITY
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|PC       | -Capture, strip and to UCL->
|         |
+--------+
What is at UCL?
Architecture for Storage

Headers coming in at about 1 gig/monitored direction

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Richard Clegg - but ...
Architecture for Storage

Store after one week!

+-----------------+
|                 |
|     BIG         |
| FULL Store      |
+-----------------+
Storing Network Data

- There’s a lot of it
- Compression
  - Kostas Kyriakopoulos
  - Wavelets for network data
- Processing
  - Distribution Matching
  - Intermediate Information
- Throw it away!!!!
  - Keep summaries and meta-data
Architecture for Visualisation

Not much time for this - see the demo
http://courier.lboro.ac.uk/

Talk to Mark Withall
Legal

▶ Trailblazing the Legal Approval Process.
▶ JANET AUP based on work of the project.
▶ Andrew Cormack and UCL
▶ Saleem Bhatti.
Next Steps

- The MASTS project needs YOU.
- What data processing would you like?
- More than traffic traces?

- UCL continues until March
- LU until May
- Cam until October or so.