Middlebox Traversal Issues of HIP Communication

IETF 63 – August 2005
draft-stiemerling-hip-nat-05
Martin Stiemerling, Jürgen Quittek, Lars Eggert
{stiemerling|quittek|eggert}@netlab.nec.de
Recent Changes

- Focusing on specific middleboxes
  - NATs and NAPTs
  - Firewalls
- Other middleboxes considered to be of secondary importance (for now)
  - e.g., TCP PEPs
- Removed solution ideas
- This is now a pure problem statement
- One intermediate version –04
- Diff between –03 and –05 is available here
I-D Content

• Document is a problem statement
  ▪ Analysis of NAT/FW traversal issues for HIP
• Does NOT provide a solution
• Describes issues when HIP encounters these middleboxes
  ▪ HIP base exchange problems
  ▪ HIP ESP data traffic
  ▪ For both IPv4 and IPv6
• (Briefly) discusses possible extensions to HIP and middleboxes
• Discusses traversal of legacy NATs
What’s next?

- Document is stable
- Basis for further work
  - HIP MB traversal requirements
  - HIP MB traversal protocols
- What to do with this document?
  - Has been proposed as RG document at last meeting
Thank you!

Questions?