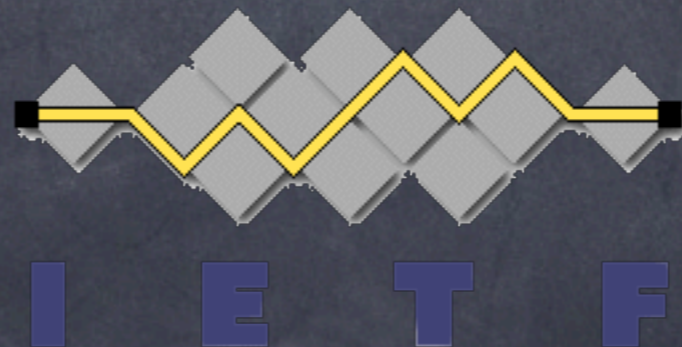


# Connectathon NEMO Test Report

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IETF 59

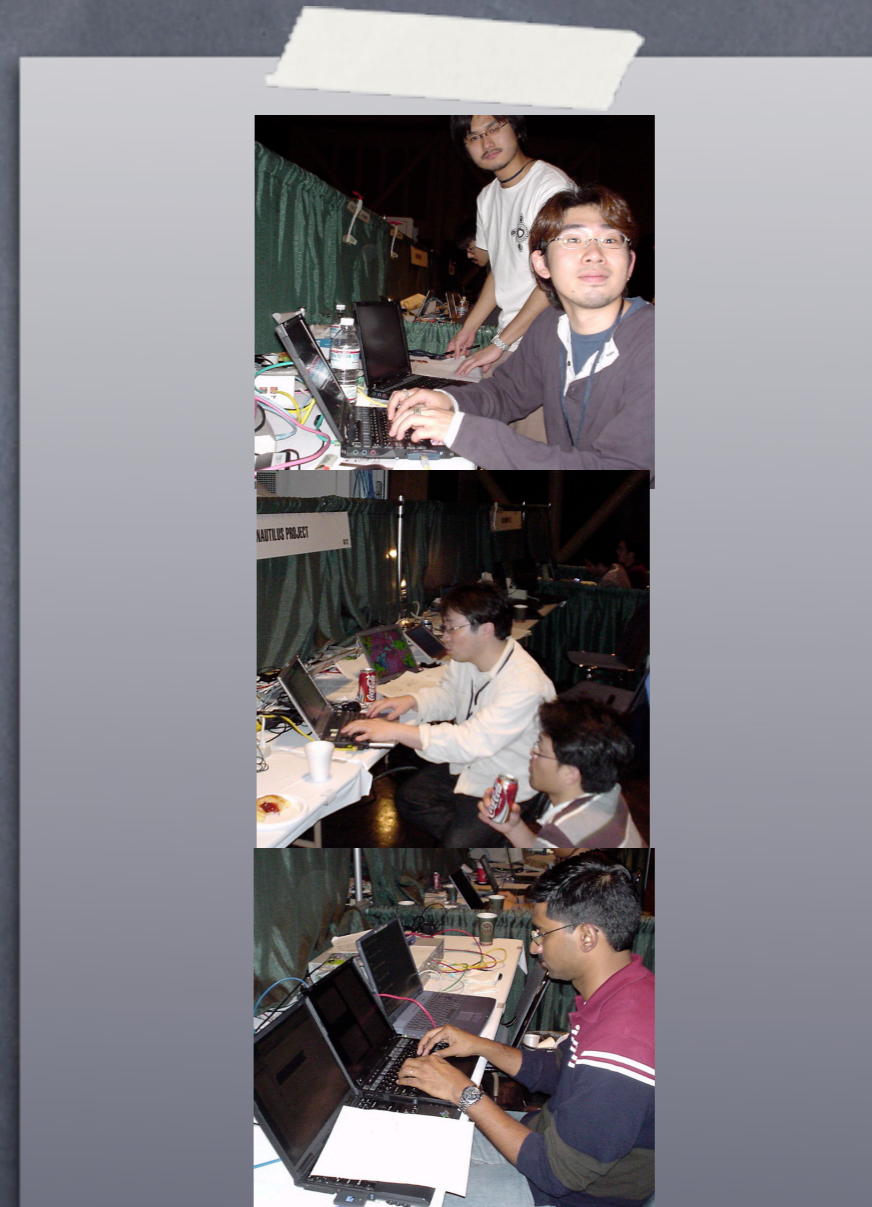


# Connectathon Basics

- Connectathon testing event was held last week, Feb 23–28 2004 in San Jose, California
- Various protocols such as NFS, Mobile IPv4/v6, and this year, NEMO, are tested
- The goal of the event is to test concept implementations, and improve the correctness and interoperability of new & old implementations, through:
  - Interop tests
  - Conformance tests

# Participants

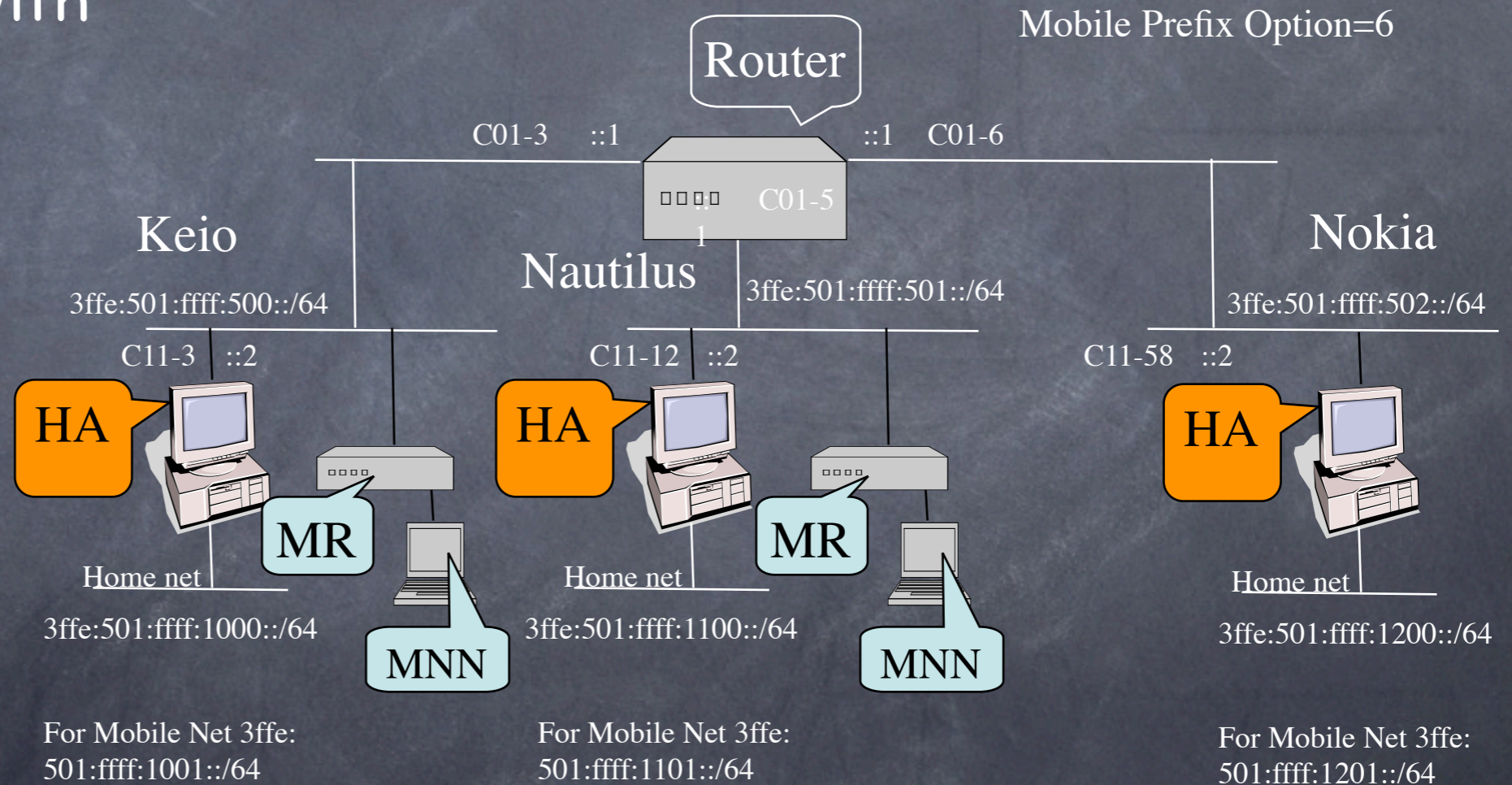
- Three NEMO Basic Support implementations:
  - KEIO University, Japan
  - Nautilus project, Japan
  - Nokia Research Center, California



# Testing Setup

• A test network was constructed with

- 3 HAs
- 2 MRs
- 2 MNNs



# Testing Outline

- DHAAD - modified to only return list of HAs supporting Mobile Routers
- MR home registration with Prefix Option
  - Both MRs registered with one HA
  - Each MR registered with a different HA
- Ping was sent from MNN1 to MNN2, passing through both MRs and both HAs - for both cases above

# Testing Outline, cont'd

- Explicit Mode was tested (Implicit is supported by at least some implementations, but was not tested)
- All tests ended in success.

# IPsec

- MR home registration with Prefix Option was also tested with IPsec
- IPsec was tested between HA and MR for both pairs -- KEIO and Nautilus
  - IPsec implementations interoperated successfully between each other's HA/MR
- Method used: ESP (DES-CBC) with authentication (HMAC-MD5)

# Conclusions

- All tests were successful! Including IPsec interoperability.
- This exercise provided valuable experience and validates the NEMO Basic Support concept and implementability.
- NEMO was a good addition to the Connectathon suite of tests this year.