

Next Steps in IP Mobility (NSIIM)

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Mailing list for Charter Discussion

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 - <http://playground.sun.com/mipcharter> (NOT YET)

Scope of IP Mobility in NSIIM

- IP Mobility is:
 - Movement w.r.t an existing and stable infrastructure
 - L3 Mobility
- Baseline for IP Mobility:
 - Mobile IPv4 (RFC3344) and
 - Mobile IPv6 (draft-ietf-mobileip-ipv6-xx)
- IP Mobility is NOT:
 - MANET
 - Movement in the absence of a dependable infrastructure
 - NEMO
 - Mobile infrastructure
 - PANA/AAA
 - Authentication and authorization infrastructure
 - L2 Mobility

BoF Intent

- At the 10000 ft level:
 - Rethink and focus the IETF efforts in the IP mobility space
- What it means:
 - Prioritization of IP Mobility topics
 - Tackle problems that are relevant for near term deployment
 - Focus on the “E” aspect of IETF
 - Separating the Mobility work for IPv4 and IPv6
- Identify:
 - What should the IRTF do in the IP Mobility space?

Proposal

- Create the following IP Mobility WGs:
 1. MIP4
 - Deals with:
 1. Mobility in IPv4 networks (baseline being RFC3344)
 2. Operator and deployment issues
 3. Other standard organizations' requirements for deployment
 2. MIP6
 - Deals with:
 1. Mobility for IPv6
 2. Deployment challenges and growing pains

MIPv4

- MIPv4 is currently in deployment phase and its own forum will help determine appropriate activities
- What should be done in this WG:
 - Advancing the base protocol and a few others to DS
 - VPN solution for MobileIPv4
 - MIB
- Other items of interest:
 - Dynamic Home Agent assignment (?)
 - Home agent reliability (?)
- The above are initial suggestions. MIPv4 folks should really identify key work items that are deployment relevant

MIP6

- Proposal is to work on:
 - Optimizations of the base protocol
 - Reliability of home agents
 - Bootstrapping MIPv6 SAs
 - Alternatives to RR based RO
 - Hierarchical MIPv6
 - Fast HOs
 - MIB
- Learn from implementation experience and interops to identify and fix issues in the base protocol
- Others:
 - AAA interactions?

IRTF

- What work in IRTF would help the IP Mobility work done in IETF?
 - Form a research community similar to the TCP research community
 - Enable comparison of research results (apples to apples)
 - Develop common scenarios, tools, parameters and methodologies (akin to the TCP research toolset)
 - Simulation of mobility models and protocols
- What the IRTF will NOT do:
 - Study of revolutionary or radically new architectures for IP mobility

Going Forward

- Discuss charter details on the ML setup for this
- Submit charters to IESG by Mid-April
- Determine the level of interest and commitment to IRTF work
- Target:
 - Two new WGs at IETF57

