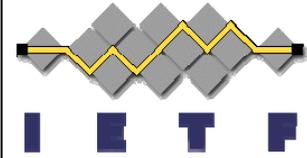


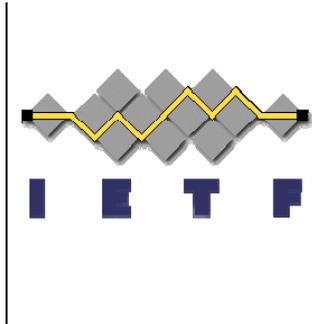
Future Work Presentation



IETF Multicast Mobility work extension

Dirk von Hugo
November 2009

Future Work Presentation



Charter:

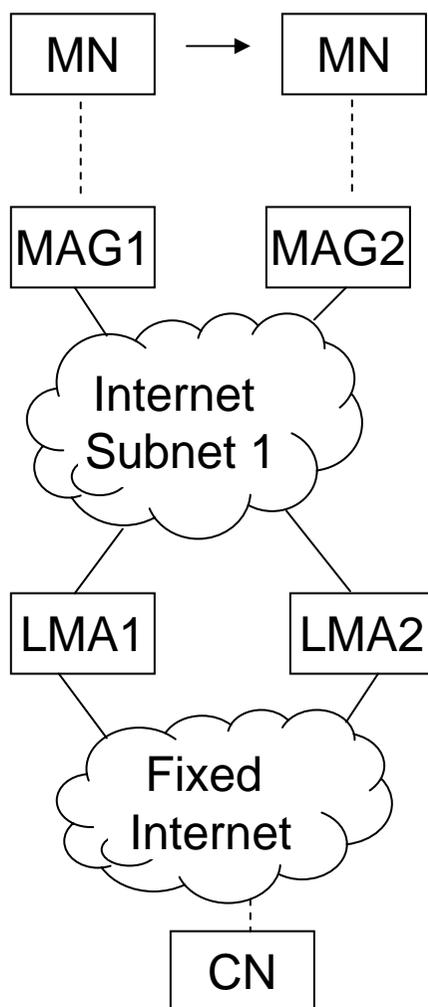
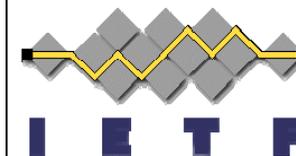
- Future work, subject to rechartering, may study/evaluate extensions to support PMIPv6 optimizations to address the avalanche problem and fast handover and extensions to IGMPv3/MLDv2 to support better operation in mobile environments.
- Jun 2010 Decision to include additional optimization work involving extensions to PMIPv6/ IGMPv3 or MLDv2
- Jun 2010 Recharter based on the above decisions (or close the group if no new work is needed)

Proposal to discuss potential issues early enough



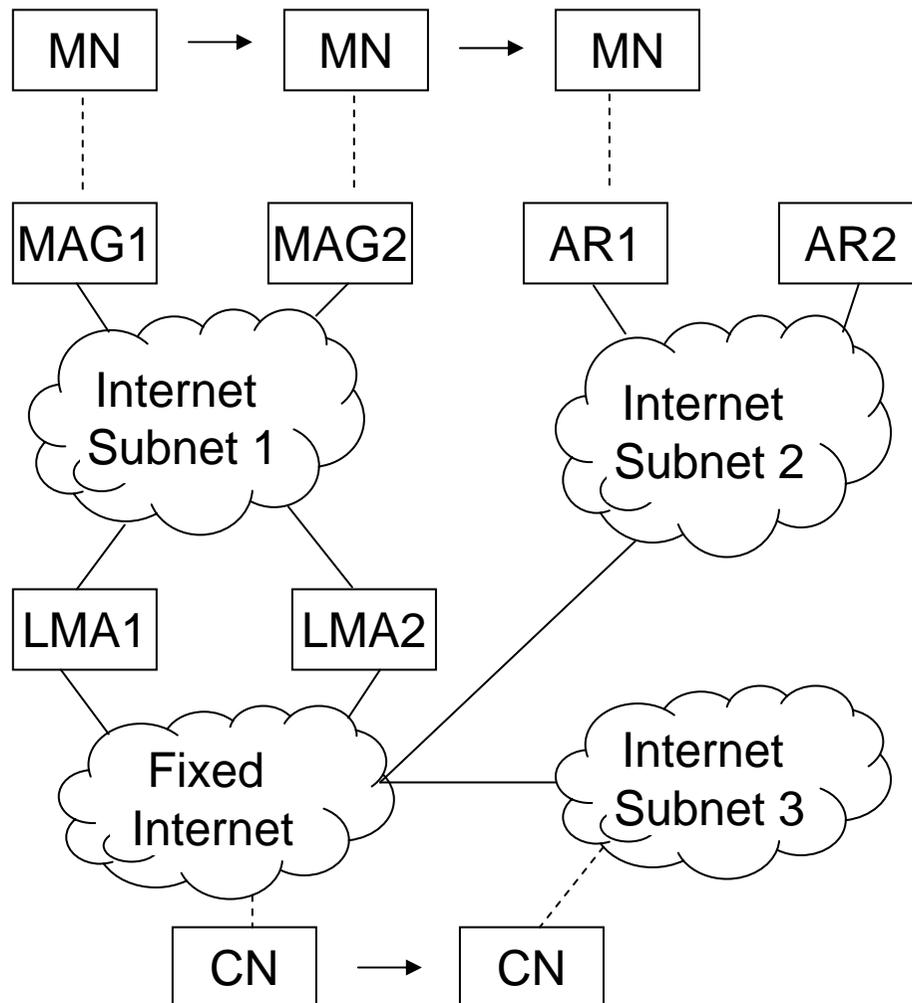
- draft-von-hugo-multimob-future-work-00 (mainly based on draft-irtf-mobopts-mmcastv6-ps-09) proposes:
 - Future MultiMob extensions to build directly on basic MultiMob solution
 - Modifying base PMIPv6 for optimal multicast support
 - e.g. agent-based, additional encapsulation, hybrid approach
 - Modifying base MLD/IGMP for optimal mobility support
 - Extending to and modifying of MIPv4/v6 and DSMIP
 - e.g. FMIP/PFMIP, DSMIP, HMIP, NEMO ...
 - e.g. Handover optimization, Multi-homing, multiple flows, multi-hop/multi-path transmission, ...
 - Sender (source) mobility
 - Any other ideas?

Details



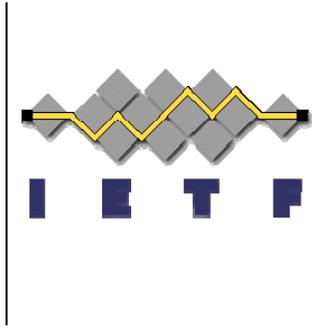
- Current work without modification of PMIP and MLD

Details



- Current work without modification of PMIP and MLD
- Future work extension on
 - MN mobility treatment,
 - multicast service protocol,
 - CN mobility
 - ...

Open issues



- Consider ongoing mobility work in NetLMM, NetExt, MEXT, ...
- Consider specific multicast-related enhancements within other WGs
- Include MANET type solutions?
- Invitation to contribute to open discussion!