

Multicast Context Transfer for Mobility Protocol Standards

draft-schmidt-multimob-fmipv6-pfmipv6-multicast-03

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Motivation of this work

- o Context transfer is mainly an issue between Access Routers → Fast Handovers
- o Plugging into Mobility Management Schemes harmonizes protocol suite
 - start from FMIPv6 / PFMIPv6
- o Context transfer now on charter of MULTIMOB
 - Reminder to a matured work

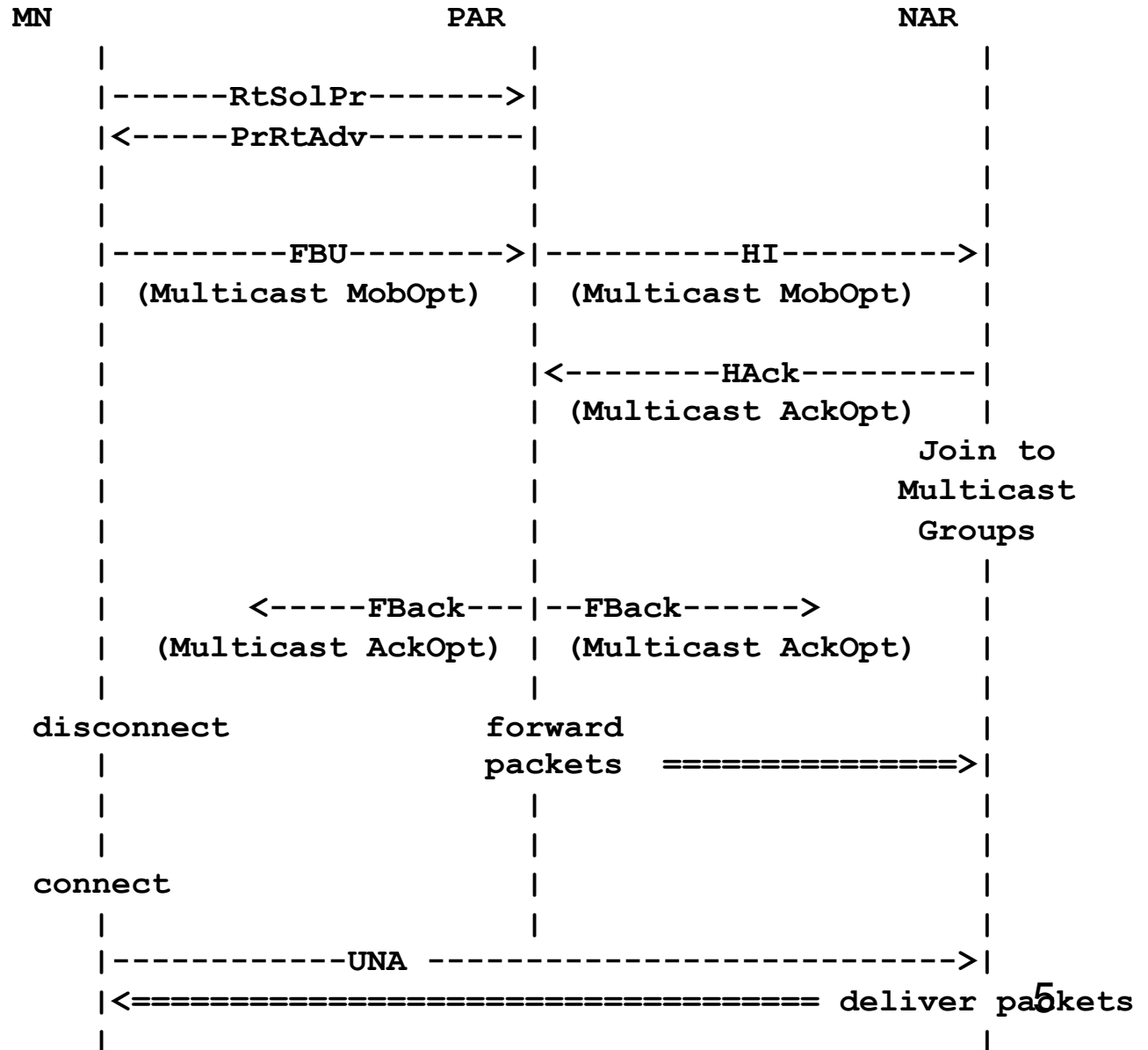
Status of the Draft

- o Initial work flowing out of MobOpts (IETF 74)
- o First presented in Anaheim (IETF 77) (v1)
- o Updated Version 2 (Sept. '10):
 - Major revision, filled in details
- o Updated Version 3 (Nov. '10):
 - Completed remaining details
- o Currently in wait for progressing

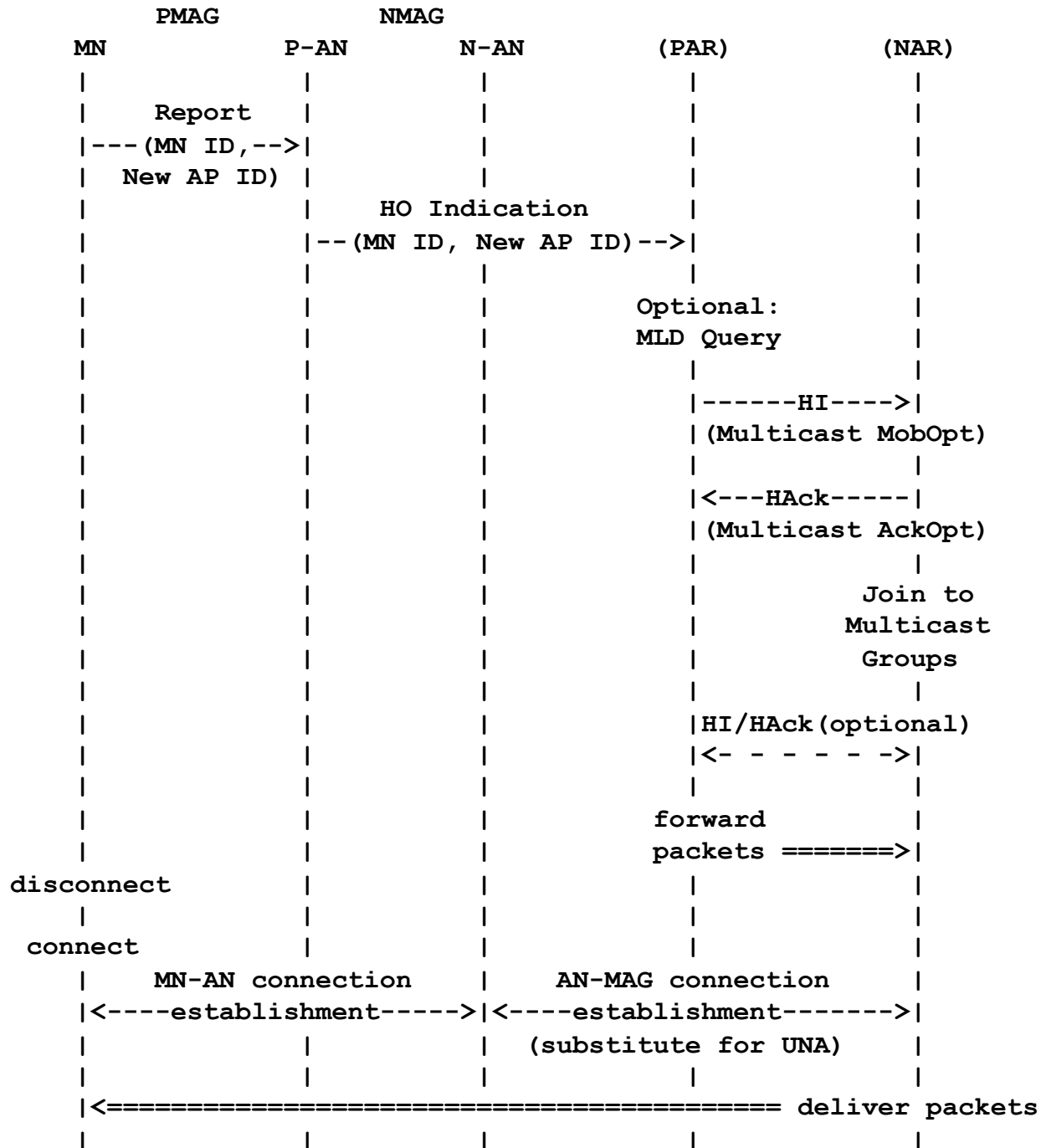
Main Contributions

- o Defines a coherent multicast membership transfer based on MLD/IGMP state records (easy handling)
- o Defines a common Multicast Mobility Header Option
- o Defines per group feedback in Multicast Acknowledgement Option
- o Dynamically steers Multicast forwarding via MLD
- o Accounts for MLD/IGMP interoperability
- o Seamlessly plugs into FMIPv6 and PFMIPv6 protocol semantics and behavior

FMIPv6 Predictive Handover



PFMIPv6 Predictive Handover



Summary & Outcome

o Document matured in details

- Protocol includes transport of MLD records in MobOpt/ AckOpt Mobility Options, IPv4 support, MLD interoperability, ...

o Initial reviews arrived:

- Please have a look & help to improve the document!

Proposal to WG:

Adopt this as a WG item

Questions/Comments?