

Home Agent Configuration Option for DHCPv6 draft-yuchi-dhc-homeagent- option-00.txt

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Background

- The basic idea in Mobile IP is to allow a home agent to work as a **stationary proxy** for a mobile node.
- In a Mobile IPv6 network having steady home links, home agents can be configured on a DHCPv6 server, then a **mobile node can acquire its home agent addresses** when it requests its home address from DHCPv6 server.

Home Agent Option for DHCPv6

- Home Agent Option

The home agent option provides **a list of one or more IPv6 addresses** of a mobile node's home agent. The home agent addresses are listed in the order of preference for use by the mobile node.

Client behavior

- In a message sent by a mobile node (client) to a server, the option-len is set to **0** while the mobile node is on its **home link**. The option-len is set to **16** while the mobile node is **away from home**, and the option-data is set to the mobile node's **home address**.
- In a Mobile IPv6 network having steady home links, the mobile node can use the home agent address which have acquired before it is away from home.

Server behavior

- If the client's option-len is 0, the link prefix is used as the key for searching home agent lists. The DHCPv6 server SHOULD **create the association** of the home address with its home agent addresses.
- If the client's option-len is 16, the home address is used as the key for searching the above-mentioned association.

- Other Comments?
- What is the next step?

Appendix

- Format

