

DHC WG IETF-72

Usage of Host Generating Interface Identifier in DHCPv6



draft-xia-dhc-host-gen-id-00.txt

Frank Xia

Behcet Sarikaya

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Problem Statement



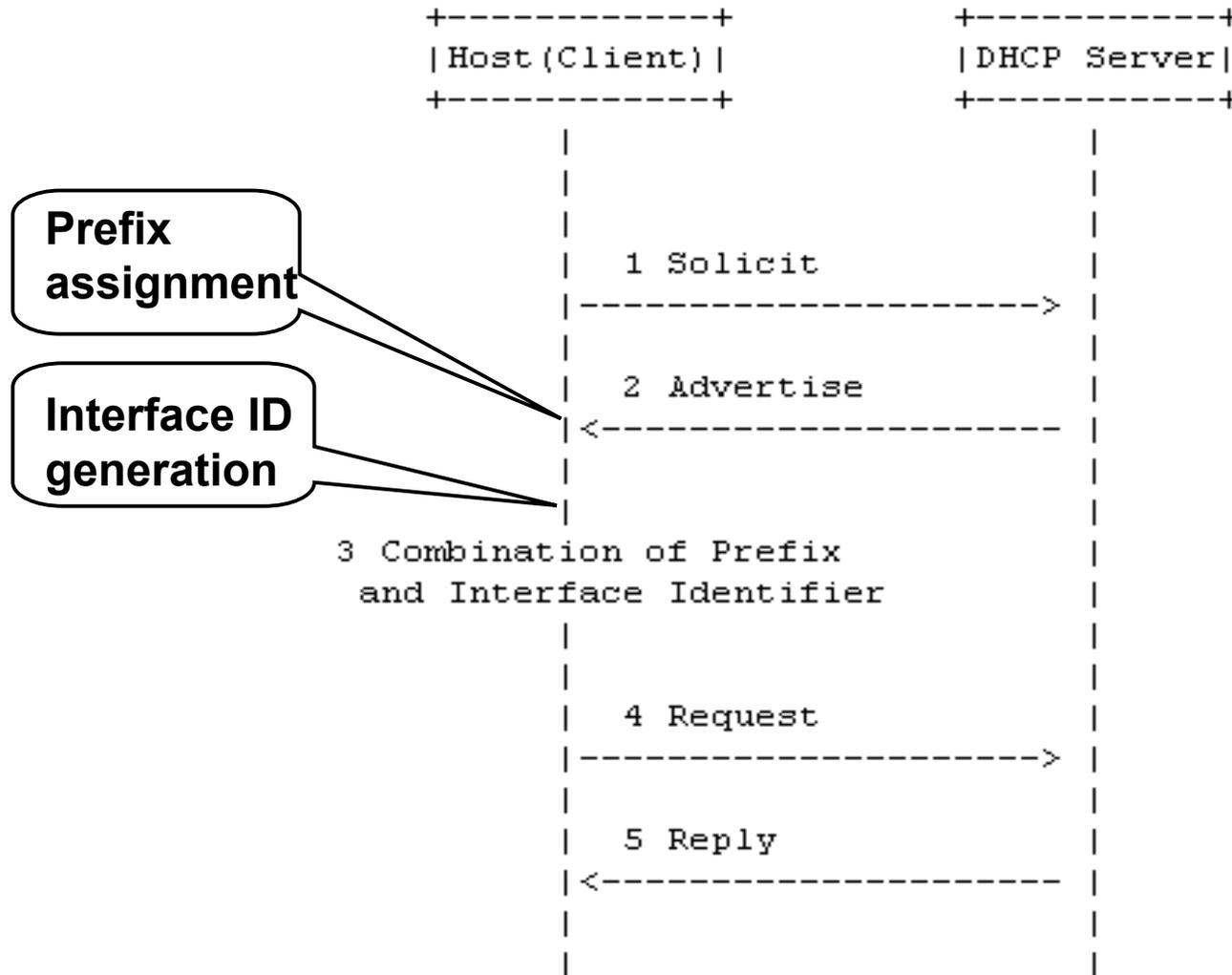
- **A DHCP server manages prefixes resource. A host attaching an access router needs to request prefixes from the DHCP server for address configuration**
- **In some case, the host is required to generate it's interface identifier due to security, privacy and so on.**
- **No existing DHCP procedure is suitable for this scenario**

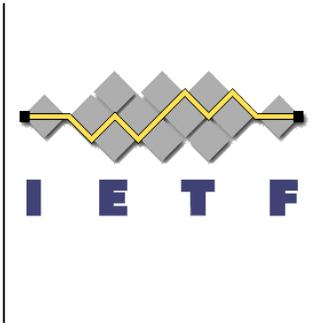
Problem Statement (cont.)



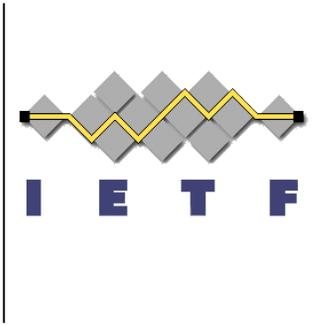
- **DHCPv6(RFC3315) assumes that a DHCP server is responsible for the assignment of an *integral* address which includes prefix and interface identifier.**
- **RFC3633 defines Prefix Delegation options providing a mechanism for automated delegation of IPv6 prefixes for a requesting router. This mechanism is only applicable to routers not hosts.**
- **In draft-xia-dhc-host-gen-id we propose to combine these two techniques and use it for address assignment**

Solution – Separation of prefix assignment and IID generation





Adopt this draft
as
a WG draft?



Thank you