

Usage of Host Generating Interface Identifier in DHCPv6

draft-xia-dhc-host-gen-id-02.txt

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Background

- **This draft was presented at IETF 72 and IETF74 meeting. This is the third presentation.**
- **The most of comments we received are positive,**

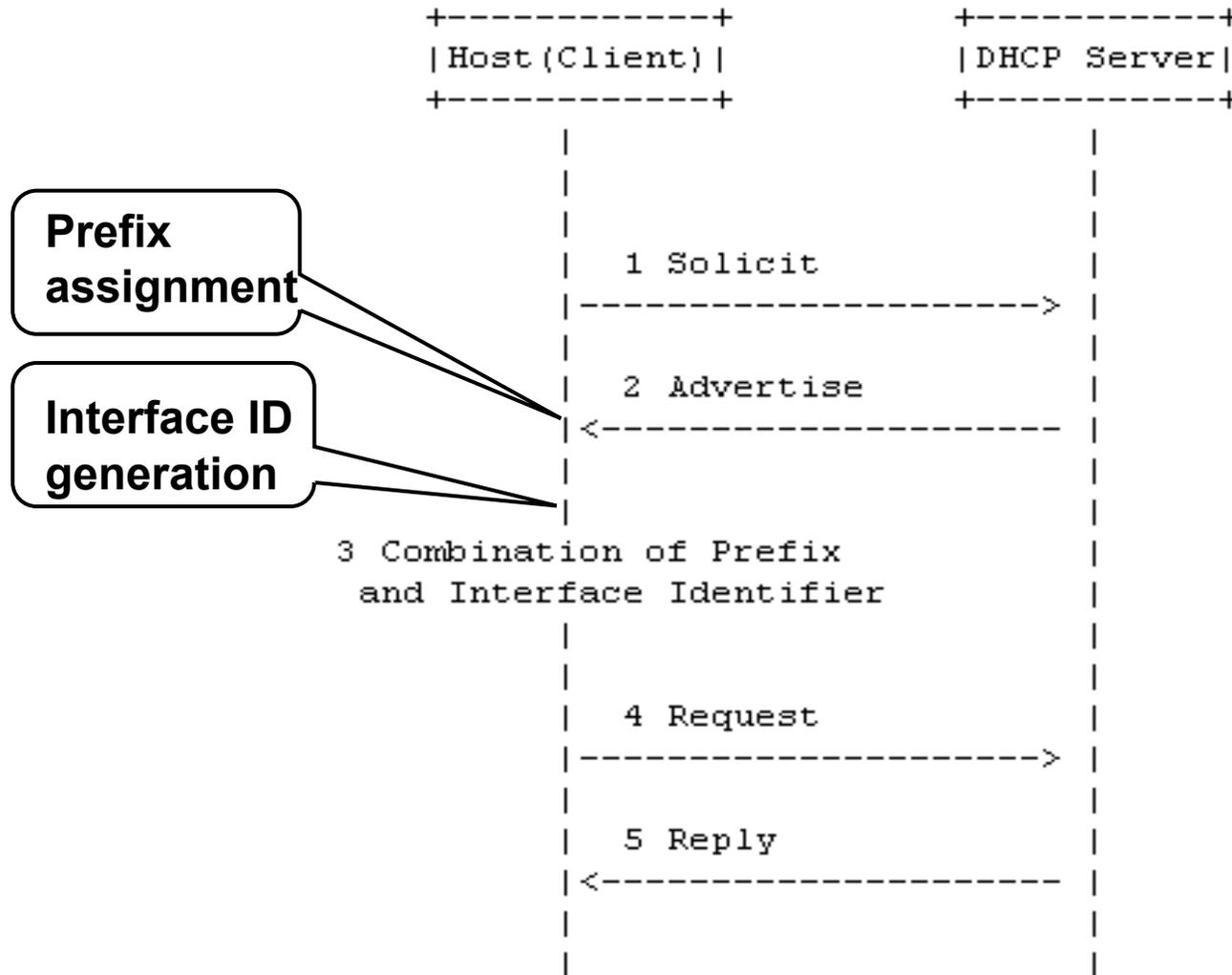
Problem Statement

- **The configuration of IPv6 address of a host includes two parts: a prefix and an interface ID**
- **In many cases, the interface identifier is generated by the host itself**
 - 1) **The interface identifier of a CGA (Cryptographically Generated Address) could only be generated based on a public key hold by the host**
 - 2) **the host generates interface identifier when using IPv6 Stateless Address Autoconfiguration**

Problem Statement (cont.)

- **The prefix is managed by a DHCP server, or an access router**
- **In some deployments, it is preferable that a DHCP server not an access router provides prefixes for a host, as is also described in draft-droms-dhc-dhcpv6-default-router**
- **No existing DHCP procedure is suitable for this scenario that a host generates interface ID while a DHCP server provides prefixes**

Solution – Separation of prefix assignment and interface ID generation



Adopt as a WG draft?

Thank you