

Secure DHCPv4

draft-jiang-dhc-sedhcpv4

IETF 92 DHC WG

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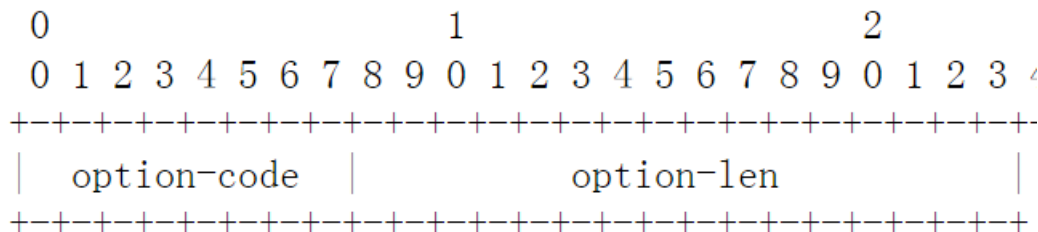
Background & Status

- **“Secure DHCPv6” is requested for publication recently**
 - Mature after 7-year work
 - The authentication is mainly based on public key

- **Secure DHCPv4 (draft-jiang-dhc-sedhcpv4)**
 - Counterpart of draft-ietf-dhc-sedhcpv6
 - Modified from Secure DHCPv6 with the distinguishes between DHCPv6 and DHCPv4 (next page)

Major Differentia from Secure DHCPv6

- **Relay behaviors are very different**
 - Modification model in DHCPv4 vs. encapsulation model in DHCPv6
 - Both secure DHCPv4 and secure DHCPv6 do not protect contents added by relay agents
 - The Relay Agent Information Option, from relay agents or server, is not included for signature validation
- **The 'giaddr' and 'hops' fields in the DHCPv4 message header is not included for signature validation**
- **Special option code and length field design for Public Key Option, Certification Option and Signature Option**



Planned Updates

- **There are some latest modifications on Secure DHCPv6, according to AD reviews**
 - These modifications should also apply to Secure DHCPv4
- **Remove the limitation that only clients use PKI- certificates and only servers use public keys. The new text would allow clients use public keys and servers use PKI-certificates**
- **Remove the applicability section**

Comments are welcomed!

WG Adoption?

Thank You!