

DHCPv6 Options for IPv6 DS-Lite Multicast Prefix

draft-qin-softwire-multicast-prefix-option-01

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Goal

- This document defines DHCPv6 options to provision
 - Unicast PREFIX64
 - Multicast PREFIX64
- **Unicast PREFIX64** is used to synthesize unicast IPv4-embedded IPv6 address following RFC6052 specification
- **Multicast PREFIX64** is used to synthesize unicast IPv4-embedded IPv6 address as defined in I-D.boucadair-behave-64-multicast-address-format
 - It may belong to the SSM range (i.e., ff3x::/32 [RFC4607]) or ASM range

Use Cases

- I-D.venaas-behave-mcast46
 - Stateless local synthesise of source/group addresses
- I-D.ietf-softwire-dslite-multicast: mB4 uses
 - Unicast PREFIX64 for ***stateless synthesise of source IPv6 address*** based on a discovered IPv4 source address
 - Multicast PREFIX64 for ***stateless synthesise of group IPv6 address***
 - Unicast PREFIX64 and Multicast PREFIX64 for ***stateless decapsulation of multicast IPv4-in-IPv6 packets***
 - The same Unicast PREFIX64 and Unicast PREFIX64 MUST be configured to the mAFTR

Next Steps

- Adopt it as a WG document?