Distributing Address Selection Policy using DHCPv6
draft-ietf-6man-addr-select-opt-06

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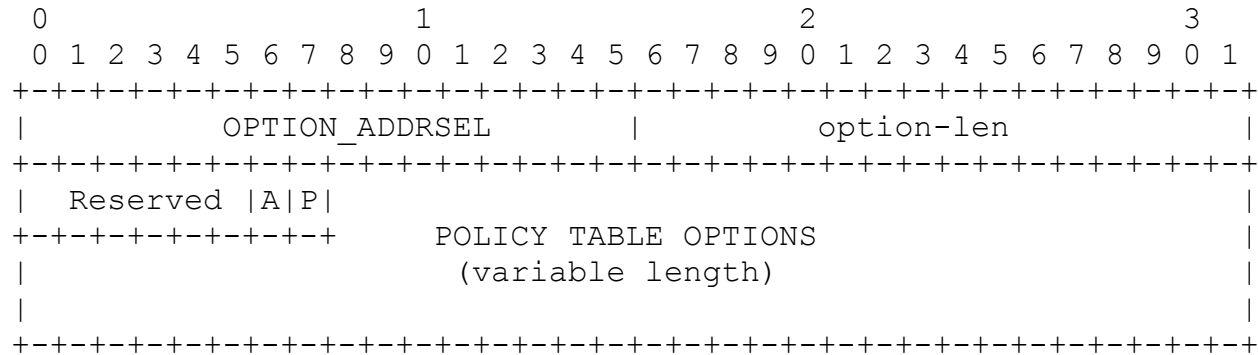# Address Selection Option Format

```
 0                   1                   2                   3
 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1
+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+
|        OPTION_ADDRSEL          |           option-len          |
+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+
| Reserved |A|P|                                                |
+-+-+-+-+-+-+-+-+                POLICY TABLE OPTIONS            |
|                            (variable length)                  |
|                                                               |
+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+

          Figure 1: Address Selection option format


 0                   1                   2                   3
 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1
+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+
|      OPTION_ADDRSEL_TABLE      |           option-len          |
+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+
|    label    |  precedence  |   prefix-len  |                 |
+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+                 |
|                                                               |
|                     prefix   (variable length)               |
|                                                               |
+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+

       Figure 2: Address Selection Policy Table option format
```
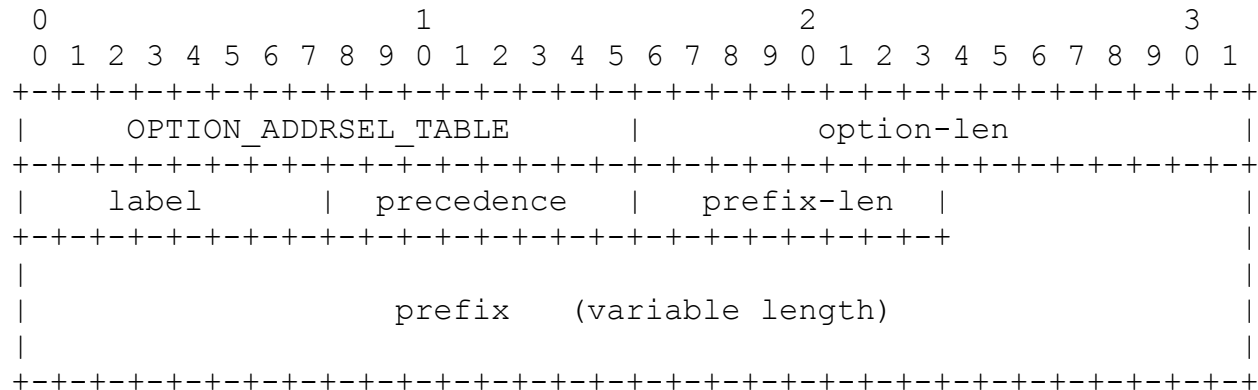
WGLC ended on 24 Oct.

Thank you for reviewing and commenting on this item.

- Ray Hunter
- Rui Paulo
- Brian E. Carpenter
- Tom Petch
- RJ Atkinson
- Ole Trøan

Most of these were editorial and enhancing comments.

Issue #1: which "default policy" to be restored ?

- The current draft states "the default policy" should be restored, when the policy goes stale.
- Ray suggests the spec should allow to restore "manually configured policy" instead of the RFC 6724 default policy.
- We agreed to change the text just to say "the policy received from the DHCP server should be deprecated."

Issue #2: no policy table should mean the default policy table ?

- Ray suggests "if the option does not include the policy table, it should mean RFC 6724 default policy table is included."
- However, this option can also be used to deliver two flags, that is, automatic row addition flag and privacy preference flag.
- So, we need a new flag to implement this. But, IMHO, such a space saving tweak just make things complicated, if we have to think about version control and, etc...

Issue #3: Automatic Row Addition flag

- "If set to 0, the Automatic Row Addition flag is disabled, and a client MAY NOT automatically add rows to the policy table."
- Brian Carpenter pointed out "MAY NOT" is not covered by RFC 2119.
- RFC 6724 states the existence of this flag is "SHOULD", so to conform with it, Brian suggests "MAY NOT" should be changed to "SHOULD".

Issue #4: Privacy Preference flag

- The current draft states "If this flag is set to 1, it does not change client host behavior, that is, a client SHOULD prefer temporary addresses. If set to 0, the Privacy Preference flag is disabled, and a client SHOULD prefer public addresses."
- Brian suggests to change "SHOULD"s to "will" for better conformance with RFC 6724.

Next step

If everybody is happy with these changes, we will publish a revision soon.

Do we need 2nd WGLC, or just need acks from those who sent comments ?