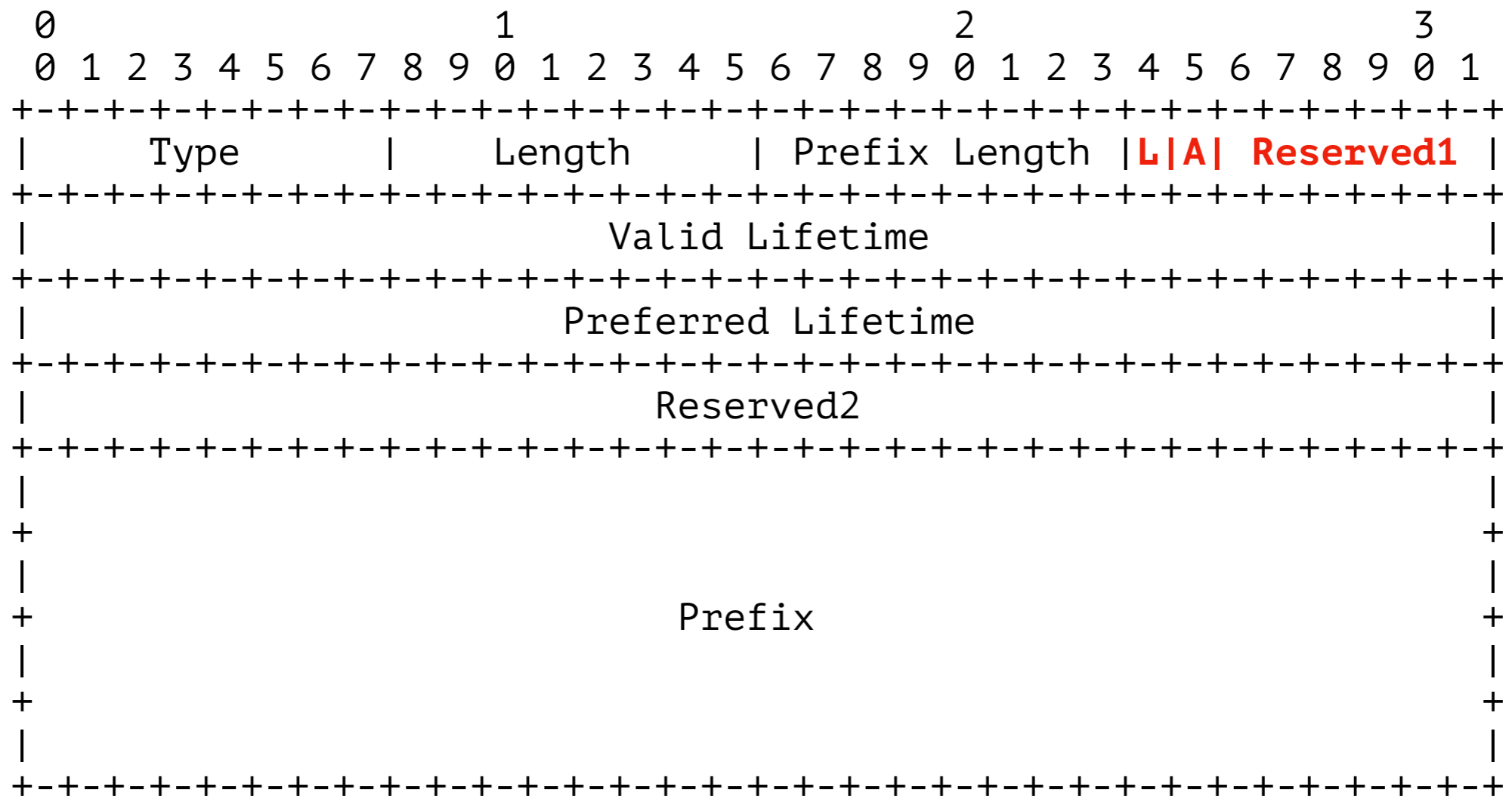


draft-troan-6man-ndpioiana

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RFC4861 PIO option

4.6.2. Prefix Information



Problem:

- draft-pioxfolks-6man-pio-exclusive-bit needed a new flag in the PIO option.
- Discovered RFC6275 defines the R flag. Does not update RFC4861 nor introduces an IANA registry.

```
0 1 2 3 4 5 6 7
+--+--+--+--+--+--+--+
|L|A|R|Reserved1|
+--+--+--+--+--+--+--+
```

Solution:

4. IANA Considerations

The IANA is requested to create a new registry for IPv6 ND Prefix Information Option flags. This should include the current flags in the PIO option. The format for the registry is:

RA Option Bit	Description	Reference
0	L - On-link Flag	[RFC4861]
1	A - Autonomous Address Configuration Flag	[RFC4861]
2	R - Router Address Flag	[RFC6275]

Figure 2

The assignment of new flags in the PIO option header require standards action or IESG approval.

The registry for these flags should be added to:
<http://www.iana.org/assignments/icmpv6-parameters>

Next steps:

- Adoption & Ready for WGLC?