

# **4rd DHCPv6 configuration IETF81**

**draft-mrugalski-dhc-dhcpv6-4rd-00**

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# History

- Remi Despres presented 4rd DHCPv6 proposal in Prague (IETF80), requested involvement of DHCP folks
- Result:
  - draft-mrugalski-dhc-dhcpv6-4rd-00
- Plan to evolve with 4rd spec
  - rename: -dhc- => -software-
- Previous approach: single complex option
- Current approach: One 4rd grouping option with several simple nested options

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# Overview

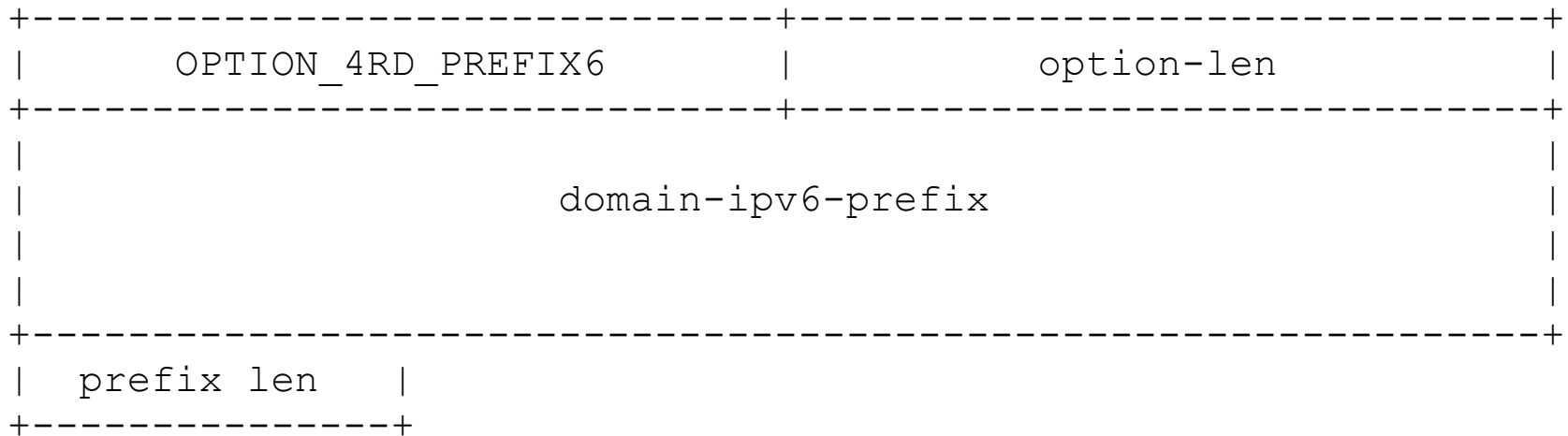
- 4rd architecture requires following parameters:
  - 1 anycast BR IPv6 address
  - One or more 4rd mapping rules
- 4rd mapping rule consists of:
  - Domain IPv6 prefix (+prefix length)
  - Domain 4rd prefix (+prefix length)
  - CE IPv6 Prefix length
  - Domain IPv6 suffix and length (optional)
- Possible extra parameter:
  - Port range selection algorithm
  - ...

# Proposed options 1: 4rd rule

OPTION_4RD_RULE (TBD)	option-len
sub-options	

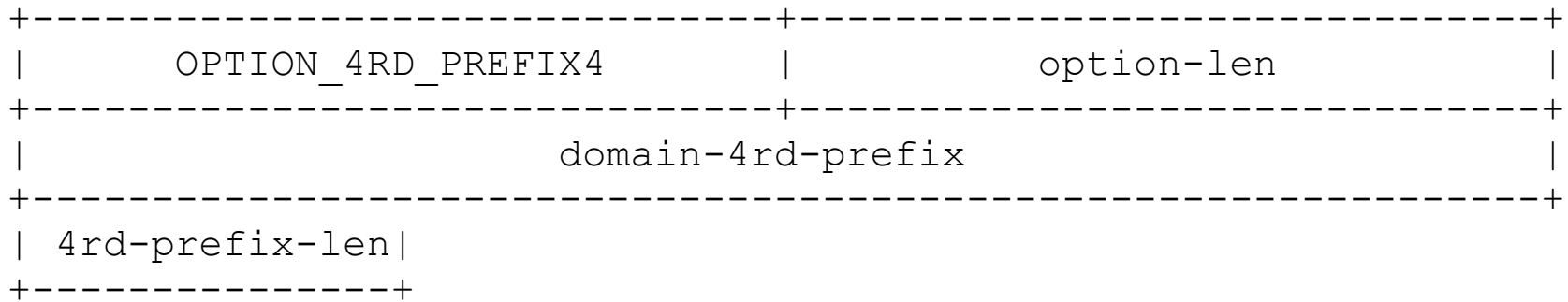
- Contains parameters specific for a rule
- One or more 4RD\_RULE may be present
- Q: Is ID needed to identify rules?

# Proposed options 2: Domain IPv6 Prefix



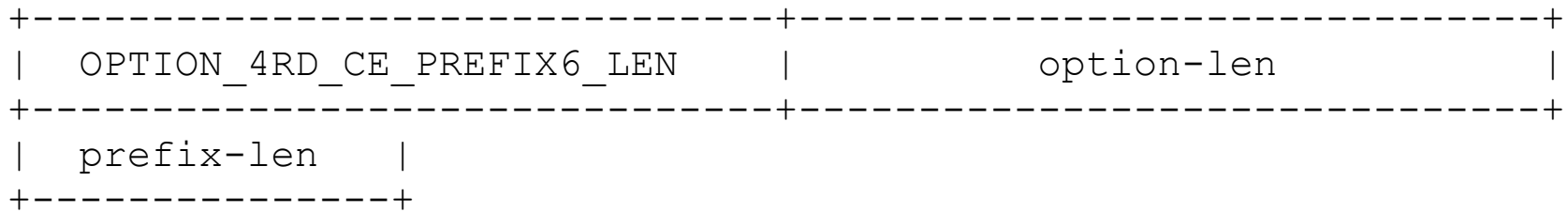
- Contains 4rd Domain IPv6 Prefix

# Proposed options 3: Domain 4rd Prefix



- domain-4rd-prefix = IPv4 address
- 4rd-prefix-len
- Depending on 4rd-prefix-len, this option contains:
  - IPv4 prefix
  - IPv4 address
  - IPv4 address + Port-set ID

# Proposed options 4: CE IPv6 Prefix Length



- CE IPv6 Prefix Length

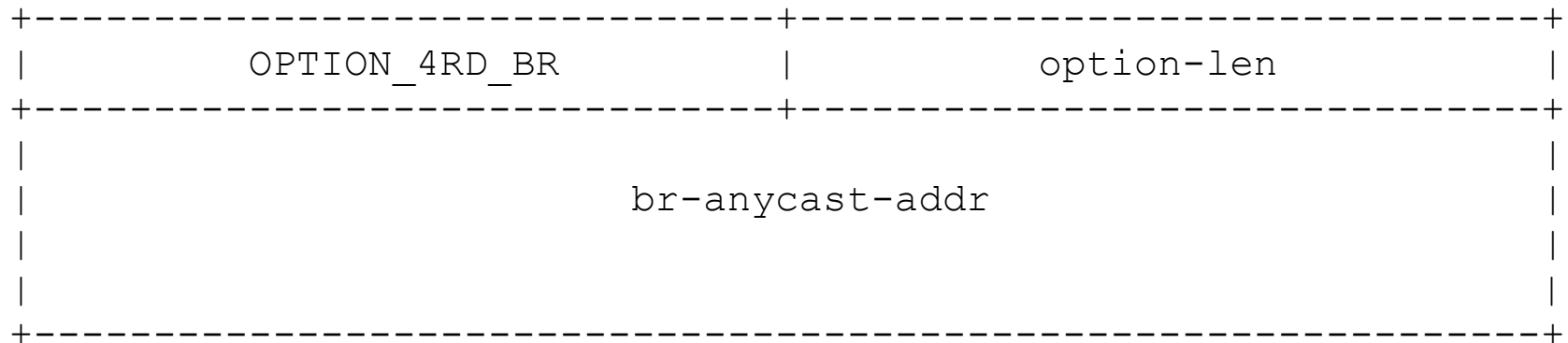
Note: NOT the same prefix as in previous option

# Proposed options 5: ... [suffix]

TBD



# Proposed options 6: BR Anycast address



- A single address

# Next steps

- Rename to -software-
- NOT asking for adoption
- Asking for review



**Thank you**  
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