

# DHCPv6 option for network boot

*draft-ietf-dhc-dhcpv6-opt-netboot*

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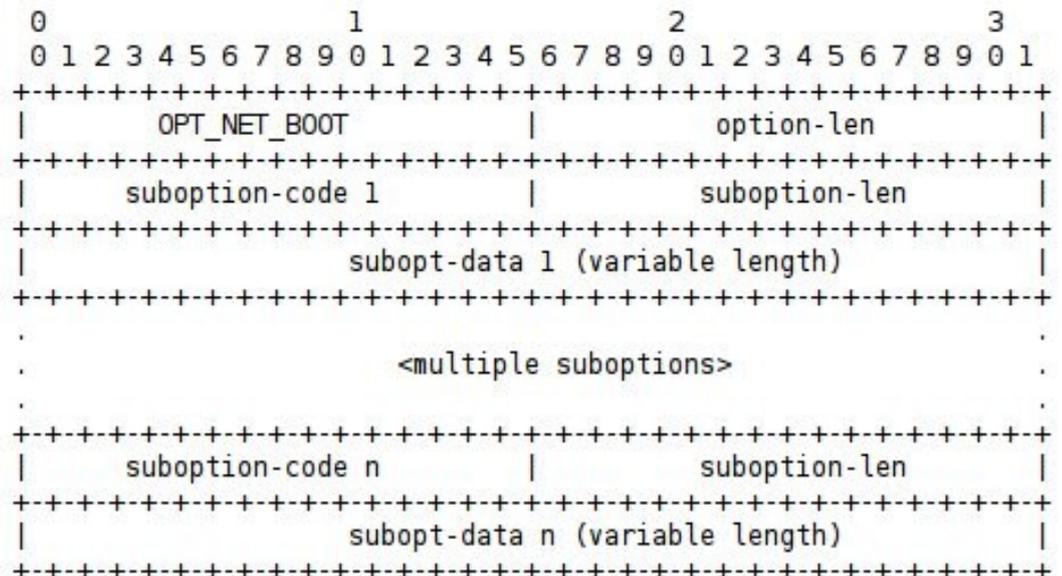
dhc WG meeting 73, IETF-73  
2008/11/20

# Problem

- Fetch files from a server to boot a client
  - typical file is a kernel
- Information about fileserver (IPv6 TFTP server address, filename etc.) needs to be retrieved via DHCPv6
- There exist similar options for DHCPv4, but not (yet) for DHCPv6

# Solution

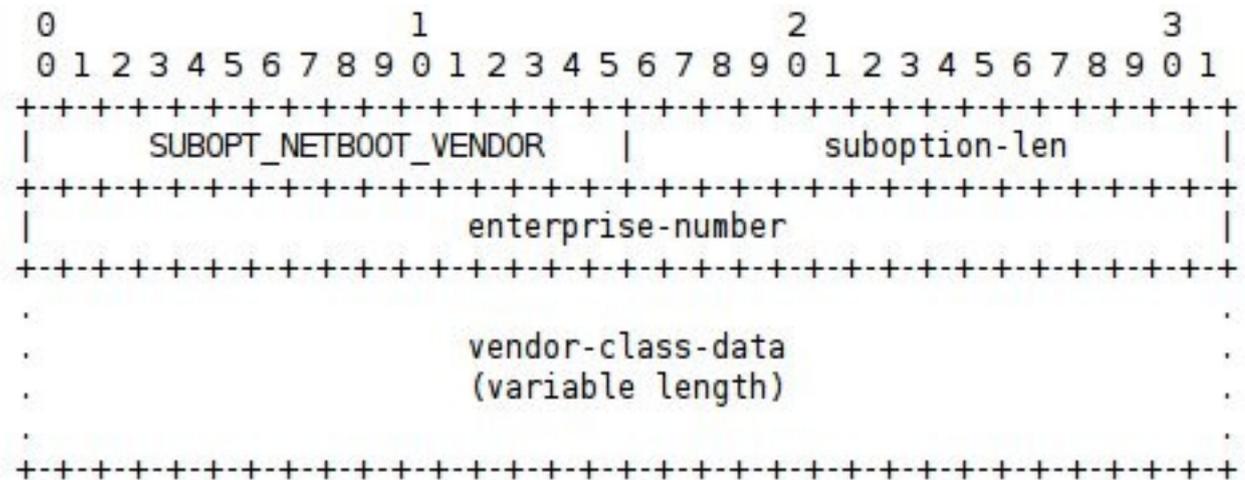
- Create new DHCPv6 option „OPT\_NETBOOT“
- OPT\_NETBOOT encapsulates multiple „suboptions“ (-> new IANA registry)
- Suboptions can occur multiple times within OPT\_NETBOOT





# Suboption „Vendor class extension“

- Carry vendor-specific information related to network booting
- Vendor class data as described in 22.16 of RFC 3315



# Advantages

- Not restricted to TFTP
- Kernel parameters (or any other parameters) can be passed along with the URL to a bootfile
- Suboption concept makes adding new options very easy

# By the way...

- There is another draft by V. Zimmer and David Thaler which is mostly along the lines of our draft (draft-zimmer-dhc-dhcpv6-remote-boot-options)
  - Main difference to our draft is iSCSI suboptions
- We suggest to add iSCSI suboptions – as described in draft-zimmer-... - to our draft (i.e. Only if they agree)

Thank you!