

RFC 3942 Update

(Reclassifying DHCPv4 Options)

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IETF-63 DHC WG

Option	Option Format (see I-D if available)	I-D or Contact	RFC 3942 Status
128	undefined (vendor specific)	draft-ietf-dhc-pxe-options	Tentatively Assigned (Conflict)
128	Etherboot signature. 6 bytes: E4:45:74:68:00:00	Etherboot - Ken Yap [ken@etherboot.org] and Timothy Legge [timothy.legge@alc.ca]	
128	DOCSIS "full security" server IP address	Cablelabs	
128	TFTP Server IP address (for IP Phone software load)	draft-blatherwick-dhc-mitel-site-options-usage	
129	undefined (vendor specific)	draft-ietf-dhc-pxe-options	Tentatively Assigned (Conflict)
129	Kernel options. Variable length string	Etherboot - Ken Yap [ken@etherboot.org] and Timothy Legge [timothy.legge@alc.ca]	
129	Call Server IP address	draft-blatherwick-dhc-mitel-site-options-usage	
130	undefined (vendor specific)	draft-ietf-dhc-pxe-options	Tentatively Assigned (Conflict)
130	Ethernet interface. Variable length string.	Etherboot - Ken Yap [ken@etherboot.org] and Timothy Legge [timothy.legge@alc.ca]	
130	Discrimination string (to identify vendor)	draft-blatherwick-dhc-mitel-site-options-usage	

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131	undefined (vendor specific)	draft-ietf-dhc-pxe-options	Tentatively Assigned (Conflict)
131	emote statistics server IP address	draft-blatherwick-dhc-mitel-site-options-usage	
132	undefined (vendor specific)	aft-ietf-dhc-pxe-options	dr Tentatively Assigned (Conflict)
132	802.1P VLAN ID	draft-blatherwick-dhc-mitel-site-options-usage	
133	undefined (vendor specific)	draft-ietf-dhc-pxe-options	Tentatively Assigned (Conflict)
133	802.1Q L2 Priority	draft-blatherwick-dhc-mitel-site-options-usage	
134	undefined (vendor specific)	draft-ietf-dhc-pxe-options	Tentatively Assigned (Conflict)
134	Diffserv Code Point	draft-blatherwick-dhc-mitel-site-options-usage	
135	undefined (vendor specific)	draft-ietf-dhc-pxe-options	Tentatively Assigned (Conflict)
135	HTTP Proxy for phone-specific applications	draft-blatherwick-dhc-mitel-site-options-usage	

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150	TFTP server address	draft-raj-dhc-tftp-addr-option	Tentatively Assigned (Conflict)
150		Etherboot - Ken Yap [ken@etherboot.org] and Timothy Legge [timothy.legge@alc.ca]	
150	GRUB configuration path name	GNU GRUB - Yoshinori K. Okuji [okuji@gnu.org]	
175		Etherboot - Ken Yap [ken@etherboot.org] and Timothy Legge [timothy.legge@alc.ca]	Tentatively Assigned
176	IP Telephone	Avaya, John W Soltes [soltes@avaya.com]	Tentatively Assigned
177		Etherboot - Ken Yap [ken@etherboot.org] and Timothy Legge [timothy.legge@alc.ca]	Tentatively Assigned (Conflict)
177	PacketCable and CableHome	Cablelabs – Replaced by 122	
208	pxelinux.magic (string) = F1:00:74:7E (241.0.116.126)	PXELINUX (part of SYSLINUX distribution) - H. Peter Anvin [hpa@zytor.com]	Tentatively Assigned
209	pxelinux.configfile (text)	PXELINUX (part of SYSLINUX distribution) - H. Peter Anvin [hpa@zytor.com]	Tentatively Assigned
210	pxelinux.pathprefix (text)	PXELINUX (part of SYSLINUX distribution) - H. Peter Anvin [hpa@zytor.com]	Tentatively Assigned

Option	Option Format (see I-D if available)	I-D or Contact	RFC 3942 Status
211	pxelinux.reboottime (unsigned integer 32 bits)	PXELINUX (part of SYSLINUX distribution) - H. Peter Anvin [hpa@zytor.com]	Tentatively Assigned
220	Subnet Allocation Option	draft-ietf-dhc-subnet-alloc	Tentatively Assigned
221	Virtual Subnet Selection Option	draft-ietf-dhc-vpn-option	Tentatively Assigned

Status Summary

Unassigned (78)

- 136-149 (14)
- 151-174 (24)
- 178-207 (30)
- 212-219 (8)
- 222-223 (2)

Tentatively Assigned (18)

- 10 option numbers with multiple reported uses (conflicts)

Unreported uses:

- 220-221 – MAC OS X Netboot (also uses 230-238)
- 144 – HP Printers
- 159-160 - Wavesec (<http://www.wavesec.org>)
- 160, 161, 165 – Telsey set-top box
- 220 - SuSe

RFC 3942 Procedures

2. Vendors that currently use one or more of the reclassified options have 6 months following this RFC's publication date to notify the DHC WG and IANA that they are using particular options numbers and agree to document that usage in an RFC. IANA will move these options from the "Unavailable" to "Tentatively Assigned" state.

Vendors have 18 months from this RFC's publication date to start the documentation process by submitting an Internet-Draft.

NOTE: If multiple vendors of an option number come forward and can demonstrate that their usage is in reasonably wide use, none of the vendors will be allowed to keep the current option number, and they MUST go through the normal process of getting a publicly assigned option [RFC2939].

3. Any options still classified as "Unavailable" 6 months after the RFC publication date will be moved to the "Unassigned" state by IANA. These options may then be assigned to any new publicly defined options in accordance with [RFC2939].

RFC 3942 Procedures

4. For those options in the "Tentatively Assigned" state, vendors have 18 months following this RFC's publication date to submit an Internet-Draft documenting the option. The documented usage MUST be consistent with the existing usage. When the option usage is published as an RFC, IANA will move the option to the "Assigned" state.

If no Internet-Draft is published within the 18 months or should one of these Internet-Drafts expire after the 18 months, IANA will move the option to the "Unassigned" state, and the option may then be assigned to any new publicly defined options in accordance with [RFC2939].

I-D documenting existing usage can be Informational or Standards Track. DHC WG should accept these as work items (when requested by author), but review mostly limited to whether usage is clearly documented.

I-Ds for options with conflicting uses should document existing usage with note about potential conflicts, and request new IANA assigned option number.