

Unused DHCP Option Codes
draft-ietf-dhc-unused-optioncodes-07

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Abstract

Prior to the publication of [RFC2489](#) (which was updated by [RFC2939](#)), several option codes were assigned to proposed DHCP options that were subsequently never used. This document lists those unused option codes and directs IANA to make these option codes available for assignment to other DHCP options in the future.

The document also lists several option codes that are not currently documented in an RFC but should not be made available for reassignment to future DHCP options.

1. Introduction

[Section 2](#) of this document lists the unused DHCP option codes from

the IANA list of BOOTP and DHCP option codes [[1](#)]. Each option code includes any known documentation and contact information from the IANA list. IANA will make these option codes available for assignment to other DHCP options in the future.

[Section 3](#) lists several DHCP option codes that are not currently documented in an RFC but should not be made available for reassignment to future DHCP options.

[2. Unused DHCP Option Codes to be Reassigned to Future DHCP Options](#)

The option codes listed in this section are to be returned to IANA for reassignment to new options. Responses from associated contact persons are noted where they have been received.

[2.1 Service Location Protocol Naming Authority](#)

Code: 80

Name: Service Location Protocol Naming Authority

Defined in: (expired Internet-Draft)

Contact: Charlie Perkins

Reason to recover: Never published as standard and not in general use

[2.2 Relay Agent Options](#)

Codes: 83, 84

Name: Relay Agent Options

Defined in: Early draft of [RFC3046](#) [[2](#)]

Contact: (none)

Reason to recover: Not defined in [RFC3046](#) as published

[2.3 IEEE 1003.1 POSIX Timezone](#)

Code: 88

Name: IEEE 1003.1 POSIX Timezone

Defined in: (expired Internet-Draft)

Contact: Mike Carney

Reason to recover: Never published as standard and not in general use

[2.4](#) FQDNs in DHCP Options

Code: 89

Name: FQDNs in DHCP Options

Defined in: (expired Internet-Draft)

Contact: Ralph Droms; agrees that option code should be
reassigned

Reason to recover: Never published as standard and not in general use

[2.5](#) VINES TCP/IP Server

Code: 91

Name: VINES TCP/IP Server

Defined in: (none)

Contact: (none)

Reason to recover: Never published as Internet-Draft

[2.6](#) Server Selection

Code: 92

Name: Server Selection

Defined in: (none)

Contact: (none)

Reason to recover: Never published as Internet-Draft

[2.7](#) IPv6 Transition

Code: 96

Name: IPv6 Transition

Defined in: (expired Internet-Draft)

Contact: Dan Harrington; agrees that option code should be
reassigned

Reason to recover: Never published as standard and not in general use

[2.8](#) Printer Name

Code: 100

Name: Printer Name

Defined in: (none)

Contact: (none)

Reason to recover: Never published as Internet-Draft

[2.9](#) Multicast Assignment through DHCP

Code: 101

Name: Multicast Assignment through DHCP

Defined in: (expired Internet-Draft)

Contact: Baiju Patel, Munil Shah

Reason to recover: Never published as standard and not in general use

[2.10](#) Swap Path

Code: 108

Name: Swap Path

Defined in: (none)

Contact: (none)

Reason to recover: Never published as Internet-Draft

2.11 IPX Compatibility

Code: 110

Name: IPX Compatibility

Defined in: (none)

Contact: Juan Luciani; agrees that option code should be
reassigned

Reason to recover: Never published as Internet-Draft

2.12 Failover

Code: 115

Name: Failover

Defined in: Early revisions of "DHCP Failover Protocol" [[3](#)]

Contact: Kim Kinnear

Reason to recover: Current version of "DHCP Failover Protocol" does
not use a DHCP option

3. Option codes to be reserved by IANA

The option codes listed in this section are the subject of ongoing work in the dhcp working group. These options codes should remain on the IANA list of assigned option codes [[1](#)] until the dhcp working group has made a final decision about their disposition.

3.1 Option codes used in PXE Specification

The following option codes are used in the "Preboot Execution Environment (PXE) Specification, Version 2.1" [[4](#)]. However, although these options are in widespread use by devices that use PXE, none of these option codes have been described in a published RFC.

The dhcp WG will endeavor to have specifications for these options published.

3.1.1 Client System

Code: 93

Name: Client System

Defined in: "Preboot Execution Environment (PXE)
Specification, Version 2.1" [\[4\]](#)

Contact: Michael Johnston
(frenchy@quiet-like-a-panther.org)

3.1.2 Client NDI

Code: 94

Name: Client NDI

Defined in: "Preboot Execution Environment (PXE)
Specification, Version 2.1" [\[4\]](#)

Contact: Michael Johnston
(frenchy@quiet-like-a-panther.org)

3.1.3 UUID/GUID Client Identifier

Code: 97

Name: UUID/GUID Client Identifier

Defined in: "Preboot Execution Environment (PXE)
Specification, Version 2.1" [\[4\]](#) (and an expired Internet-Draft)

Contact: Dan Harrington, Michael Johnston
(frenchy@quiet-like-a-panther.org)

3.2 In Use by Apple

The following option codes are used by devices from Apple Computer. However, none of these option codes have been described in a published RFC.

The dhc WG will endeavor to have specifications for these options published.

3.2.1 LDAP Servers

Code: 95

Name: LDAP Servers

Defined in: (none)

Contact: Dieter Siegmund, dieter@apple.com

Reason to recover: Never published in an RFC

3.2.2 Netinfo Parameters

Codes: 112, 113

Name: Netinfo Address, Netinfo Tag

Defined in: (none)

Contact: Dieter Siegmund, dieter@apple.com

Reason to recover: Never published in an RFC

3.2.3 URL

Code: 114

Name: URL

Defined in: (none)

Contact: Dieter Siegmund, dieter@apple.com

Reason to recover: Never published in an RFC

3.3 Option Code Extensions

Note that these option codes are identified in "Extending DHCP Options Codes" [5] as part of a mechanism for extending the set of option codes available to DHCP. If these option codes are not used for DHCP option code extension, they will be returned to IANA for

reassignment to other DHCP options.

Codes: 126, 127

Name: Option Code Extensions

Defined in: (expired Internet-Draft)

Contact: Ralph Droms

4. Already Returned for Reassignment

The option codes 99, 102-107, 109 and 111 have already been returned for reassignment to future DHCP options.

5. Security Considerations

This document has no known security implications, as none of the reclaimed options are known to be in use.

6. IANA Considerations

IANA has returned the DHCP option codes listed in [Section 2](#) to the list of available option codes. These option codes may be reassigned to new DHCP options, according to the procedures in [RFC 2939](#) [6]. IANA is requested to reassign these option codes after the list of option codes that have never been assigned or have previously been returned has been exhausted.

Informative References

- [1] Assigned Numbers Editor, IANA., "BOOTP and DHCP Parameters", <http://www.iana.org/assignments/bootp-dhcp-parameters>, February 2003.
- [2] Patrick, M., "DHCP Relay Agent Information Option", [RFC 3046](#), January 2001.
- [3] Droms, R., Kinnear, K., Stapp, M., Volz, B., Gonczi, S., Rabil, G., Dooley, M. and A. Kapur, "DHCP Failover Protocol", [draft-ietf-dhc-failover-12.txt](#) (work in progress), November 2002.
- [4] Intel Corporation, "Preboot Execution Environment (PXE) Specification Version 2.1", <http://www.pix.net/software/pxeboot/archive/pxespec.pdf>, September 1999.

- [5] Volz, B., Droms, R. and T. Lemon, "Extending DHCP Options Codes", [draft-volz-dhc-extended-optioncodes-00.txt](#) (work in progress), February 2003.
- [6] Droms, R., "Procedures and IANA Guidelines for Definition of New DHCP Options and Message Types", [BCP 43](#), [RFC 2939](#), September 2000.

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