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Updates to DHCPv4 and DHCPv6 Options for Access Network Discovery and
Selection Function (ANDSF) Discovery
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Abstract

This document updates [RFC 6153](#) by correcting IANA allocations made for DHCPv4 and DHCPv6 options for Access Network Discovery and Selection Function (ANDSF) Discovery. This document assigns a code for DHCPv6 option for ANDSF and withdraws an already assigned DHCPv4 option code.

Requirements Language

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in [RFC 2119](#) [[RFC2119](#)].

Status of This Memo

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Internet-Draft

DHCP for ANDSF

August 2013

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Table of Contents

1.	Introduction	2
2.	Update to RFC 6153	2
3.	Security Considerations	3
4.	IANA Considerations	3
4.1.	DHCPv6 Option	3
4.2.	DHCPv4 Option	3
5.	Normative References	4
	Author's Address	4

[1.](#) Introduction

[RFC6153] defines a DHCPv4 option (called OPTION-IPv4_Address-ANDSF) [[RFC2131](#)] and a DHCPv6 option (called OPTION-IPv6_Address-ANDSF) [[RFC3315](#)] to enable a mobile node to discover Access Network Discovery and Selection Function (ANDSF) entities in an IP network. Unfortunately, the IANA considerations section in [[RFC6153](#)] was ambiguous, and as a result two DHCPv4 option codes were assigned instead of one DHCPv4 option code and one DHCPv6 option code.

This document updates [[RFC6153](#)] by assigning a code for DHCPv6 option for ANDSF and withdrawing an already assigned DHCPv4 option code.

[2.](#) Update to [RFC 6153](#)

In order to be backward compatible with existing implementations, IANA MUST assign 143 as a DHCPv6 option code for OPTION-IPv6_Address-ANDSF.

This document changes [section 6 of \[RFC6153\]](#) as follows:

OLD:

This document defines two new DHCP options as described in Sections [2](#) and 3:

ANDSF IPv4 Address Option for DHCPv4 (OPTION-IPv4_Address-ANDSF) 142

Boucadair

Expires February 22, 2014

[Page 2]

Internet-Draft

DHCP for ANDSF

August 2013

ANDSF IPv6 Address Option for DHCPv6 (OPTION-IPv6_Address-ANDSF) 143

NEW:

IANA has assigned the following new DHCPv6 Option Code in the registry maintained in <http://www.iana.org/assignments/dhcpv6-parameters>:

Option Name	Value
OPTION-IPv6_Address-ANDSF	143

IANA has assigned the following new DHCPv4 Option Code in the registry maintained in <http://www.iana.org/assignments/bootp-dhcp-parameters/>:

Option Name	Value
OPTION-IPv4_Address-ANDSF	142

[3.](#) Security Considerations

Security considerations are discussed in [[RFC6153](#)].

[4.](#) IANA Considerations

[4.1.](#) DHCPv6 Option

IANA is requested to assign the following new DHCPv6 Option Code in the registry maintained in <http://www.iana.org/assignments/dhcpv6-parameters>:

Option Name	Value
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4.2. DHCPv4 Option

IANA is requested to return the following value to the available DHCPv4 Option Codes space maintained in <http://www.iana.org/assignments/bootp-dhcp-parameters/>:

Boucadair

Expires February 22, 2014

[Page 3]

Internet-Draft

DHCP for ANDSF

August 2013

Option Name	Value
OPTION-IPv6_Address-ANDSF	143

5. Normative References

- [RFC2119] Bradner, S., "Key words for use in RFCs to Indicate Requirement Levels", [BCP 14](#), [RFC 2119](#), March 1997.
- [RFC2131] Droms, R., "Dynamic Host Configuration Protocol", [RFC 2131](#), March 1997.
- [RFC3315] Droms, R., Bound, J., Volz, B., Lemon, T., Perkins, C., and M. Carney, "Dynamic Host Configuration Protocol for IPv6 (DHCPv6)", [RFC 3315](#), July 2003.
- [RFC6153] Das, S. and G. Bajko, "DHCPv4 and DHCPv6 Options for Access Network Discovery and Selection Function (ANDSF) Discovery", [RFC 6153](#), February 2011.

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