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Site Specific Options for DHCP for IPv6
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Abstract

This document specifies that a portion of the DHCP for IPv6 [[DHCPv6](#)] 16-bit option space is reserved for site-specific options. Site-specific options are to be used for site specific needs and MUST NOT be used for public (IANA assigned) or vendor specific options.

[1](#). Introduction

The DHCP for IPv6 base specification [[DHCPv6](#)] did not reserve a range of option numbers for private use within sites, as was defined for DHCP for IPv4 [[RFC2132](#)].

This document specifies that a portion of the DHCP for IPv6 16-bit option space is reserved for site-specific options. Site-specific options are to be used for site specific needs and MUST NOT be used for public (IANA assigned) or vendor specific options.

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[2.](#) Requirements

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

[3.](#) Site-Specific Options

The DHCP for IPv6 option codes from 65,280 to 65,534 are to be reserved for use by site-specific options. This reserves 254 option values for site-specific use.

This range of option codes MUST NOT be assigned by IANA to any public options.

This document does not define the behavior of clients, servers, and relay agents with respect to site-specific options, as these are site issues. However, it is recommended that client implementations:

- a. allow the list of site-specific options to be included in an Option Request Option (DHCPv6) to be configured,
- b. allow the list of site-specific options and the corresponding values to be sent in client request messages to be configured, and
- c. allow application software to obtain the data returned for site-specific options.

[4.](#) IANA Recommendations

IANA is requested to reserve the DHCP for IPv6 options from 65,280 to 65,534 (decimal), inclusive, for site-specific options. IANA will not manage these options; sites will manage this space.

5. Security Considerations

This document in and by itself provides no security, nor does it impact existing security.

Acknowledgements

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