



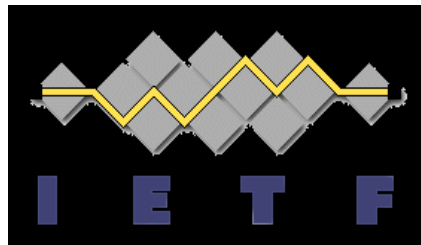
DHCP Options For ANDSF

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Terminology

- ANDSF – Access Network Discovery and Selection Function
- Access Network – A network that is accessed by a User Entity(UE) (a.k.a. mobile node)
- 3GPP Access Network – Third Generation Partnership project specified Access network
- Non-3GPP Access Network – Access network that is not specified by 3GPP (e.g., 3GPP2 access, WiMAX access)



Background

- ANDSF is being defined in 3GPP (Release-8)
- Provides mobile node the necessary data to perform network discovery and selection of non-3GPP networks[3GPP TS23.402]
- According to 3GPP TS23.402, the ANDSF is discovered through interaction with the Domain Name Service function or the DHCP Server function



Background (contd..)

- According to 3GPP TS 24.302, the domain name or the IP address of the ANDSF can also be discovered by the UE by means of the DHCP query
 - Currently refers to the options as specified in draft-ietf-mipshop-mos-dhcp-options
 - The problem is that the options are only for IEEE 802.21 servers
- A separate draft for ANDSF DHCP options is therefore needed

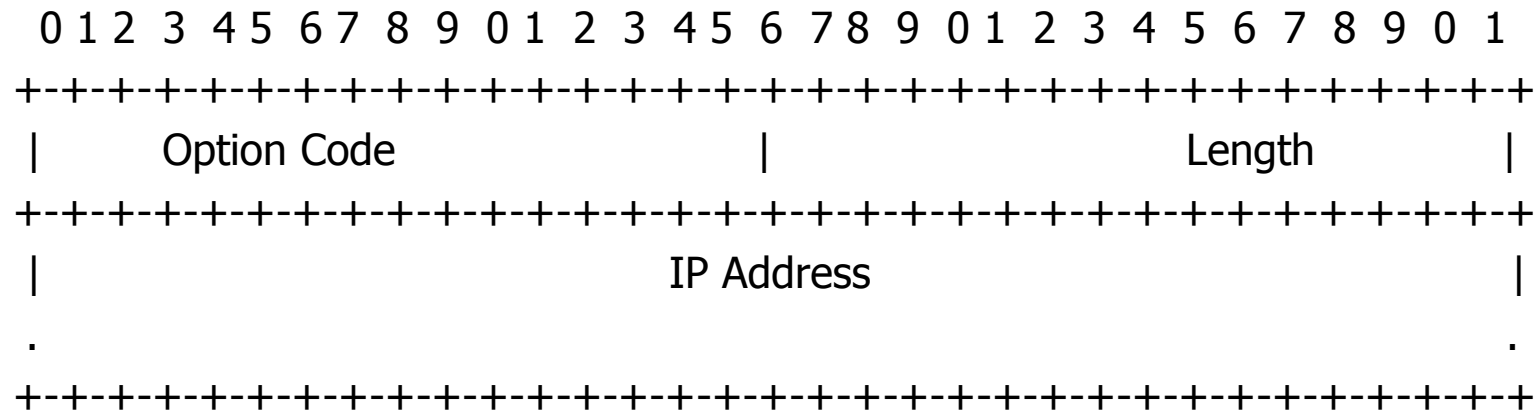


Draft-Das-MIPSHOP-ANDSF-dhcp-options

- Draft defines the following ANDSF options:
 - IPv4 address option for DHCPv4
 - Domain Name List option for DHCPv4
 - IPv6 address option for DHCPv6
 - Domain Name List option for DHCPv6



ANDSF IPv6 address option for DHCPv6



Option Code

OPTION-IPv6_Address-ANDSF (To Be Assigned) - 2 bytes

Length

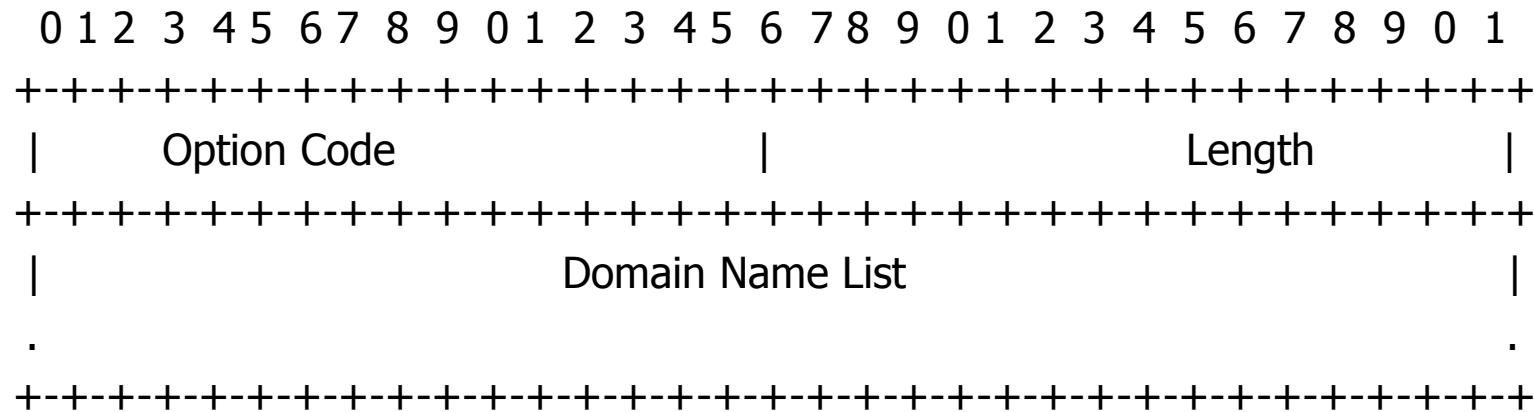
A 16-bit field indicating the length of the option excluding the 'Option Code' and the 'Length' fields.

IP Address

IPv6 address(es) of ANDSF Server(s)



ANDSF FQDN option for DHCPv6



Option Code

OPTION-IPv6_Address-ANDSF (To Be Assigned) - 2 bytes

Length

A 16-bit field indicating the length of the option excluding the 'Option Code' and the 'Length' fields.

Domain Name List

FQDN(s) of ANDSF Server



Draft-Das-MIPSHOP-ANDSF-dhcp-options

(contd..)

- Consider this as WG draft?