

draft-ietf-geopriv-dhcp-lbyr-uri-option-04

IETF74 – San Francisco

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The Scope

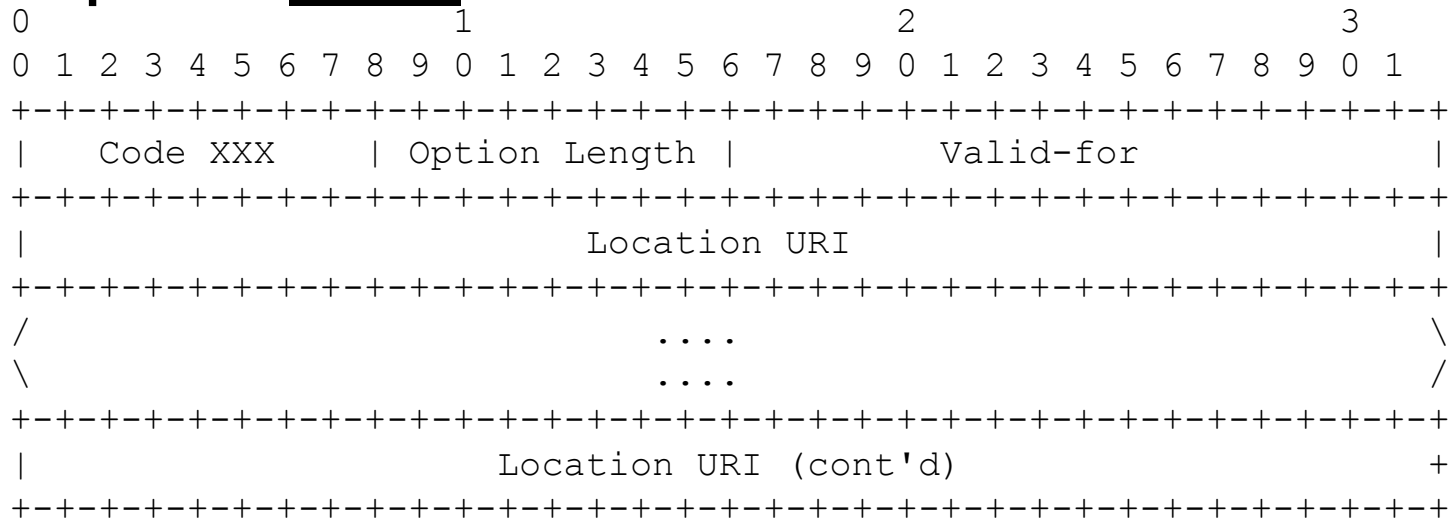
- This doc creates a DHCP Option to deliver a LocationURI to a client

What's Changed between in WG -04

- Adapted new Option format to that accepted in RFC 4776
 - i.e., “Type / Length / Value”
 - Allows for
 - #1 commonality between DHCP Options for Location
 - #2 easy extensibility
- Added IPv6 Option format
- Made Valid-for optional (i.e., its own ‘Type’), equivalent to zeros in field when mandatory

The Option Format Change

- Changed the already simple DHCP LbyR Option from this:



The Option Format Change

- To this for IPv4:

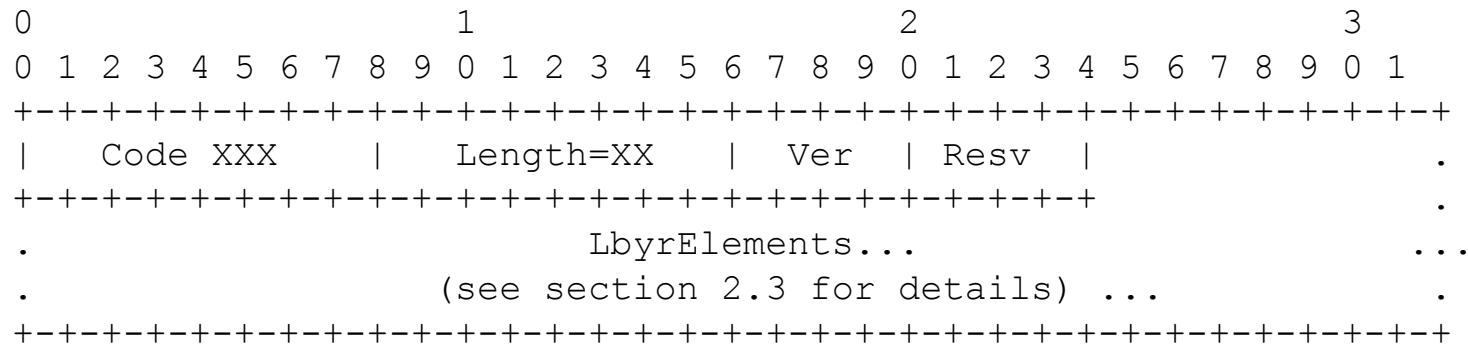


Figure 1. IPv4 Fields for this LbyrElement Option

- Code XXX: The code for this DHCPv4 option (IANA assigned).
- Length=XX: The length of this option, counted in bytes - not counting the Code and Length bytes. This is a variable length Option, therefore the length value will change based on the length of the Lbyr within the Option.
- Ver: (4 bits) The version of this Option. This will specify version 1.
- Resv: (4 bits) reserved for future use.

The Option Format Change

- and this for IPv6:

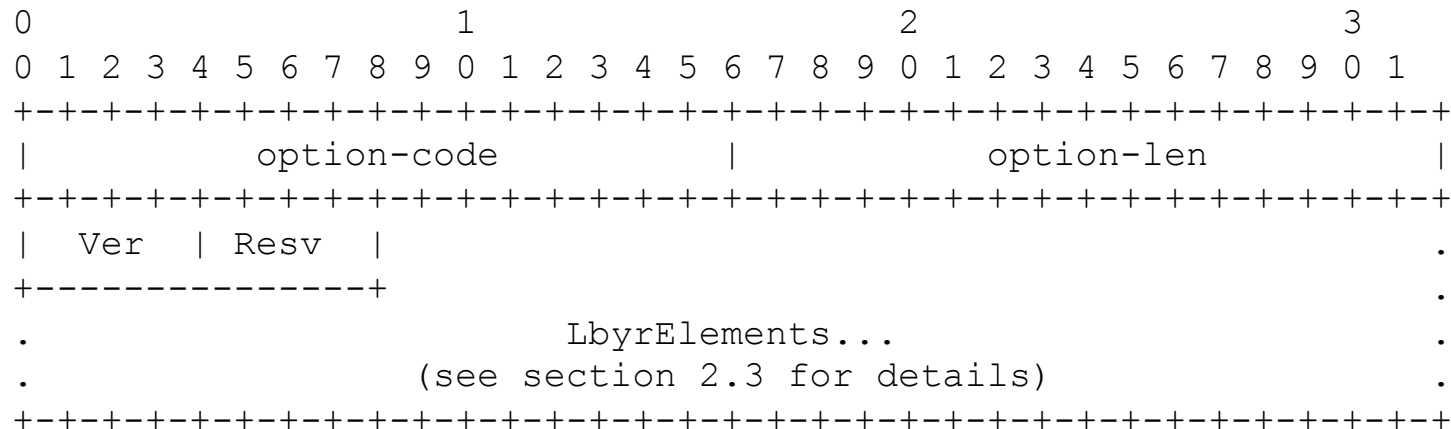


Figure 2. IPv6 fields of this LbyrElement Option

- option-code: The code for this DHCPv6 option (IANA assigned).
- option-len: The length of this option, counted in bytes - not counting the Code and Length bytes. This is a variable length Option, therefore the length value will change based on the shape within the Option.
- Ver: See above (Section 2.1). This will specify version 1.
- Resv: See above (Section 2.1).

The Option Format Change

- Adapted “LbyrElements” format from RFC 4776:

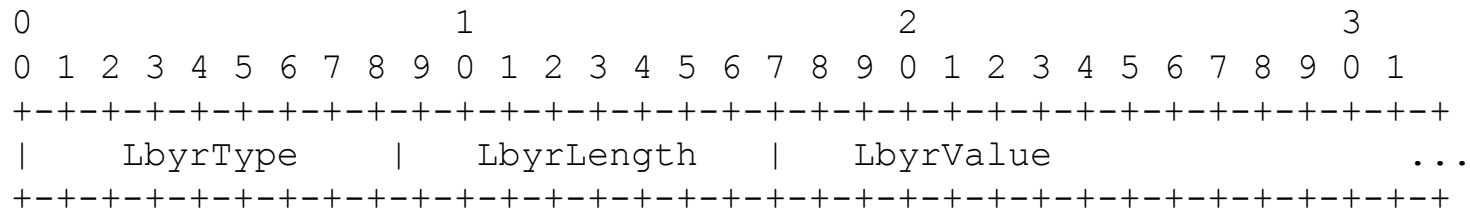


Figure 3. LbyrElement Format for both IPv4 and IPv6

LbyrType: A one-byte identifier of the data location value.

LbyrLength: The length, in bytes, of the LbyrValue, not including the LbyrLength field itself, up to a maximum of 255.

LbyrValue: The LbyrElement value, as described in detail below. The LbyrValue is always in UTF-8.

Open Issues

- Need to correct concatenation of IPv6 Options
- Maintaining the TLV format might allow Option to drop version and reserved fields
- Need to get with Martin to iron out his last few comments
- Addressed all others that were mentioned on list
- Author feels this is almost done

