

draft-volz-dhc-dhcpv6-vendor-message

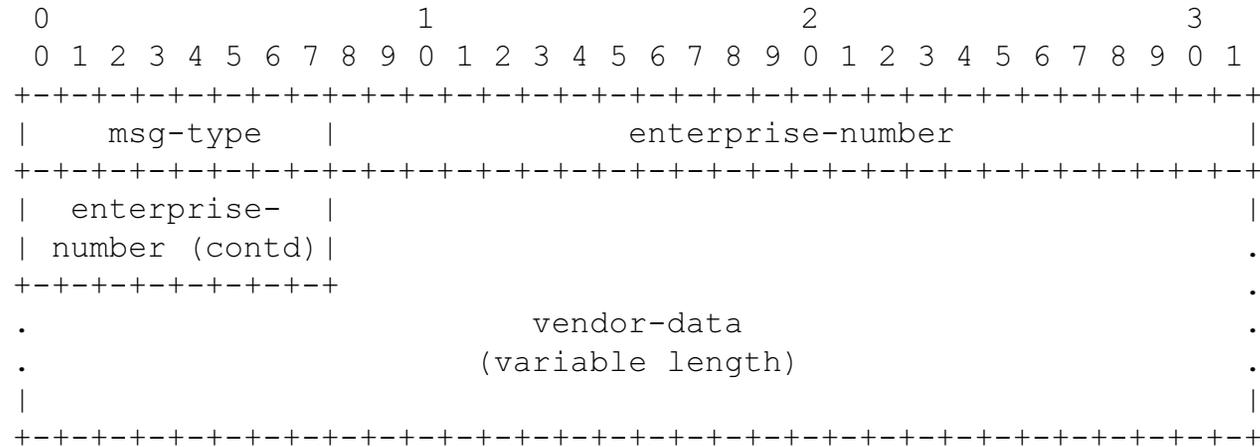
DHCPv6 Vendor-Specific Message

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Purpose

- Allows vendor-specific exchange between clients, relay agents, and/or servers and allows multiple vendors to make use of the message for completely different and independent purposes
- Possible applications include
 - Server-to-server protocol (aka failover)
 - Relay-to-server/server-to-relay protocol
 - Reduces pressure on port assignments for DHCPv6 related extensions

Proposed Message Format



msg-type	VENDOR-SPECIFIC (to-be-assigned)
enterprise-number	The vendor's registered Enterprise Number as registered with IANA
vendor-data	The vendor's message data (format up to vendor)

- Kim suggests vendor-data be vendor-specific sub-options (that way format is known and could at least be decoded to some level by packet sniffers and other devices)

Vendor-Specific Options

- Range of options that may ONLY be used in Vendor-Specific Message (VSM) that IANA will never assign to DHCPv6 options
- Allows VSM to use DHCPv6 option space, plus a small number of “private” options
 - Avoids need for VSM container option for DHCPv6 options
- Risky because we know someone will use one of these in other DHCPv6 messages

Comments?

- VSM OK?
 - VSM format (require sub-options)
- Vendor Specific Options OK?
 - 256 options from IANA space
 - Too risky?
 - Require clients/servers to discard if in other messages?
- Adopt as DHC WG work item?