

# Interface Addresses TLV

draft-eastlake-isis-ia-tlv-01.txt

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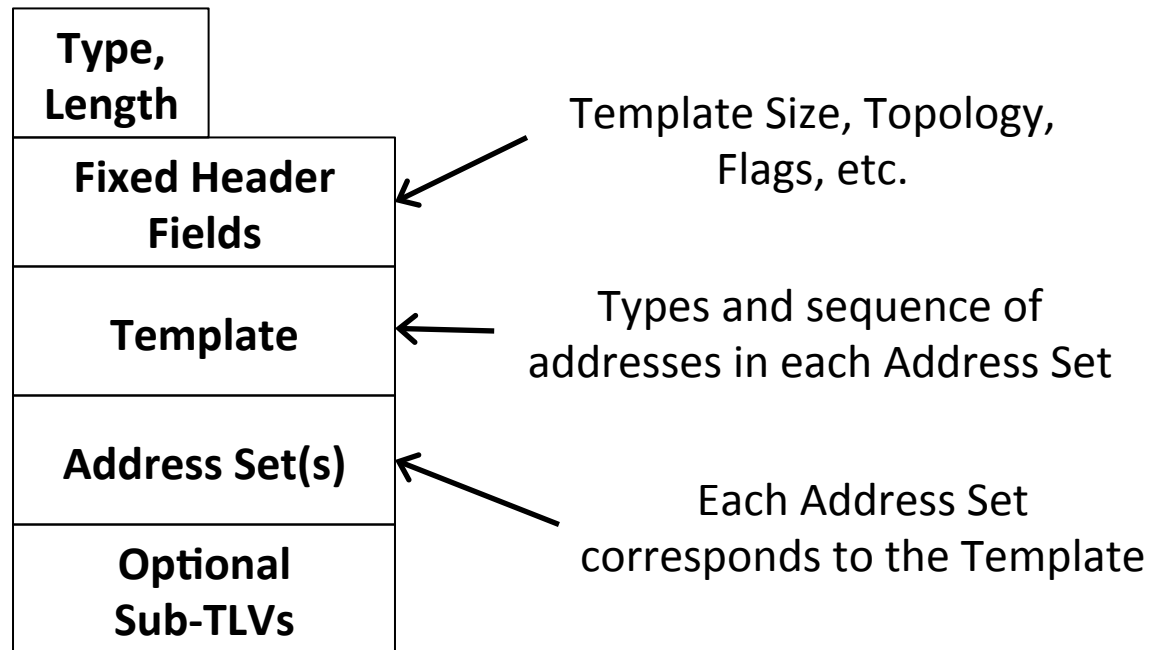
- Provide a TLV format for sets of addresses where each address in the set is associated with the same interface (aka port).
  - For example, a MAC address and an IPv6 address, or
  - A MAC address, an IPv4 address, and an IPv6 address.
- Intended to support such things as ability to represent the data needed to locally respond to ARP/ND/RARP and/or discard packets with a non-existent destination.

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- Described in current early draft as a TLV but could be a sub-TLV or, if it turns out it is only of interest to one application, an APPsub-TLV.
- Address types indicated by AFNs (Address Family Numbers).
- Draft also proposes a few additional AFNs.
- Sub-TLVs and a few reserved flag bits provide for extensibility.

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- Basic structure:



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- Sub-TLVs in current draft to specify
  - the size of a new address type so parsers that don't understand it can at least skip over it.
  - an address that is considered a part of all address sets in that TLV.
  - label (such as VLAN) through which the interface is reachable.
  - identity of the router through which the interface is reachable.

**END**

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