

# **OSPF Extensions for Flow Specification**

**draft-liang-ospf-flowspec-extensions-03**

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# Status of this I-D

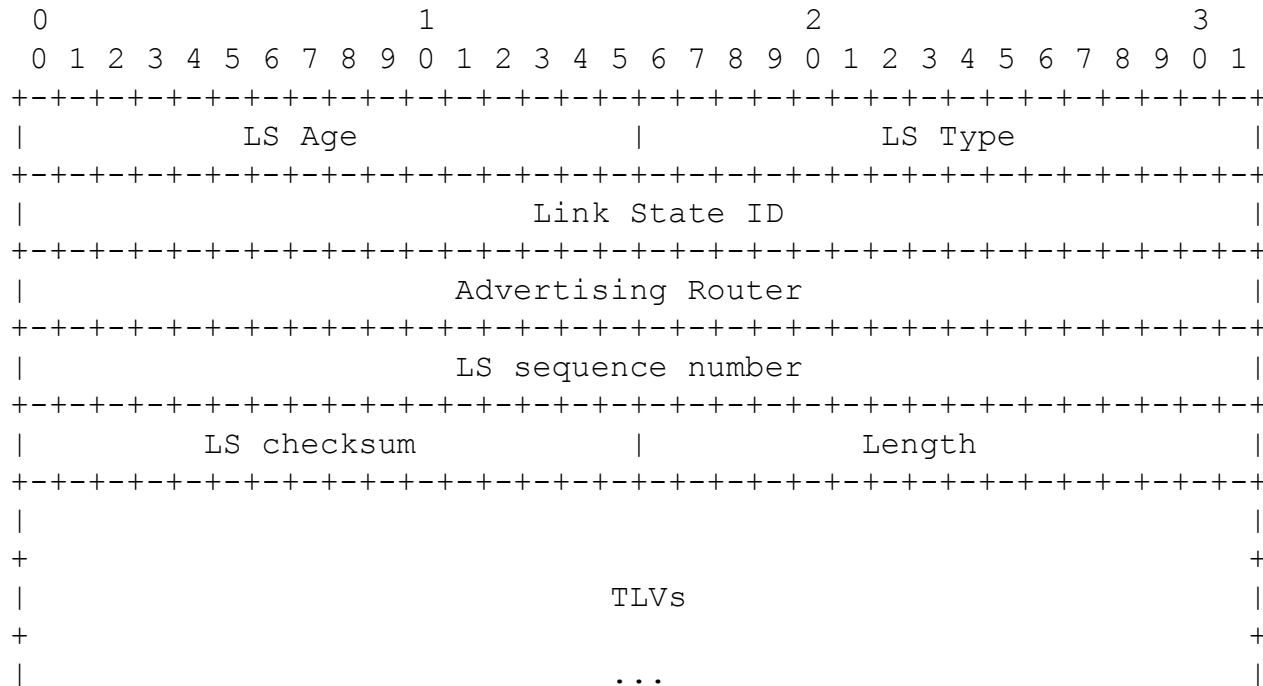
- ◆ First presented in IETF 91, Honolulu meeting
  - Need to solicit operators' comments:  
we've discussed with some operators, they're very interested in this topic.
  - Relation with [draft-shrivastava-ospf-flow-spec-01]:  
we've discussed with the authors of this draft. Both of us agree on the use cases and requirements. But we haven't reached an agreement on some details of protocol extensions so far.
  
- ◆ The update compared to v-02
  - Add "Policy Configuration": deploy local filtering polices on CE or PE for security reasons.
  - Clarify "FlowSpec Opaque LSA" is Type-11 Opaque LSA which is not flooded into Stub and NSSA areas.
  - Clarify "Redirect" action



# OSPF Extensions for FlowSpec Info

## ----- OSPFv3

This document defines a new OSPFv3 flow specification LSA encoding format that can be used to distribute traffic flow specifications. This new OSPFv3 FlowSpec LSA is extended based on [RFC5340].

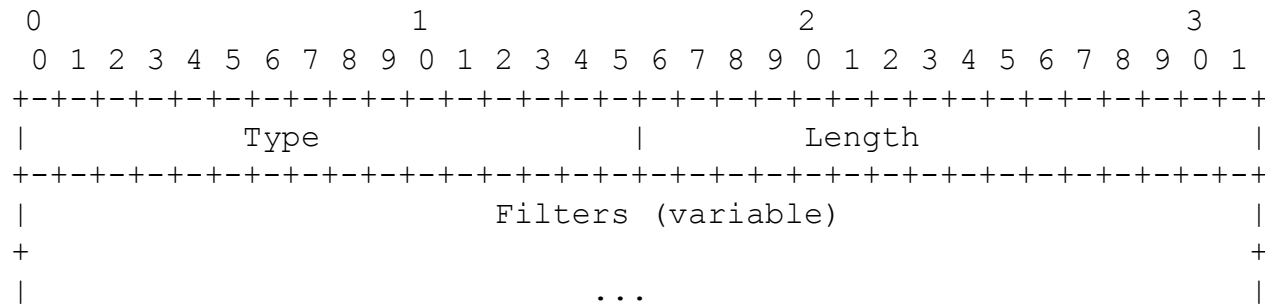


**Figure 2: OSPFv3 FlowSpec LSA**

◆ LSA Function Code: FlowSpec LSA (Type Code: TBD2)

# OSPF Extensions for FlowSpec Info

The FlowSpec Opaque LSA carries one or more FlowSpec Filters TLVs and corresponding FlowSpec Action TLVs.



**Figure 3: OSPF FlowSpec Filters TLV**

- ◆ Type: the TLV type (Type Code: TBD3)
- ◆ Filters: the same as "flow-spec NLRI value" defined in [RFC5575,etc.].

**Table 1: Traffic Filtering Actions in [RFC5575 etc.]**

type	FlowSpec Action	encoding
0x8006	traffic-rate	2-byte as#, 4-byte float
0x8007	traffic-action	bitmask
0x8108	redirect	4-byte IPv4 address, C flag
0x800b	redirect	16-byte IPv6 address, C flag
0x8009	traffic-marking	DSCP value



# Next Step

- This draft has been sufficiently discussed in the past meeting and all received comments have been addressed.
- Accepted as WG doc?

**Thank You!**