

LSP Object Flag Extension of Stateful PCE

draft-xiong-pce-lsp-flag-02

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PCEP Extensions

- LSP Object
 - As defined in [RFC8231], the length of LSP Object Flag field is 12bits and bit 1 to bit 11 has been assigned shown on the right figure.
 - This document proposes to define a new LSP-EXTENDED-FLAG TLV for LSP object to extend the length of the flag field.

Bit	Description	Reference
0	Unassigned	
1	ERO-compression	[RFC8623]
2	Fragmentation	[RFC8623]
3	P2MP	[RFC8623]
4	Create	[RFC8281]
5-7	Operational (3 bits)	[RFC8231]
8	Administrative	[RFC8231]
9	Remove	[RFC8231]
10	SYNC	[RFC8231]
11	Delegate	[RFC8231]

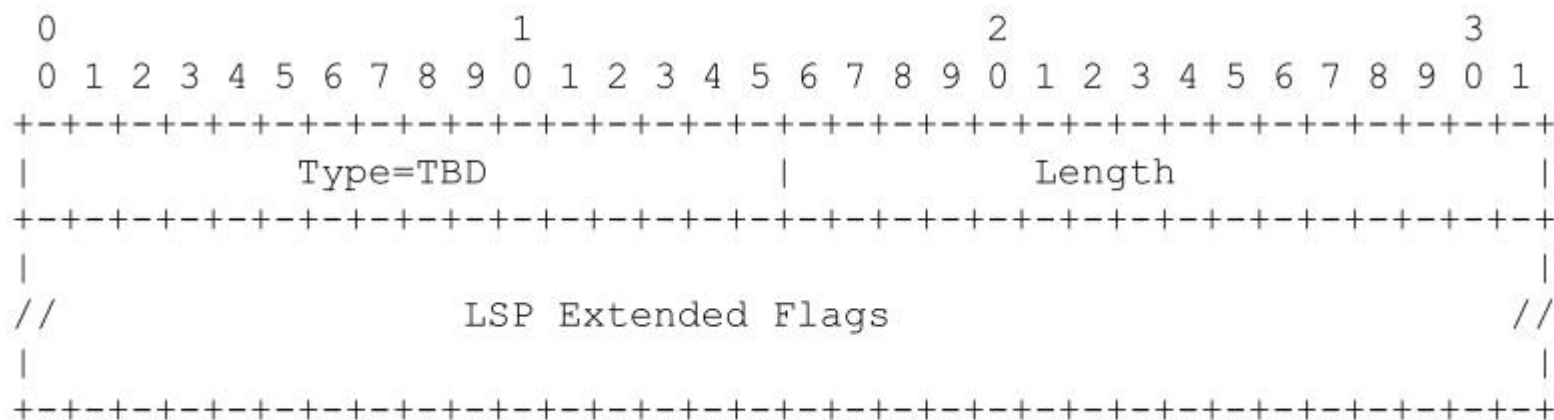


Figure 1: LSP-EXTENDED-FLAG TLV Format

PCEP Extensions (cont)

- PCEP-Error Object

- The LSP-EXTENDED-FLAG TLV MUST be included in the LSP Object when the bits of the extended flag field need to be used.
- If the TLV is missing, the PCE will generate an error with Error-type=6 (Mandatory Object missing) and error-value TBD2 (LSP-EXTENDED-FLAG TLV missing and close the session).

Error-Type	Meaning
6	Mandatory Object missing
	Error-value
	TBD2: LSP-EXTENDED-FLAG TLV missing

Table 2

Next Step

- The draft has been discussed and updated in the mailing list.
- Comments and discussions are very welcome!

Thank you!