

Label Information for BGP FlowSpec

draft-liang-idr-bgp-flowspec-label-00

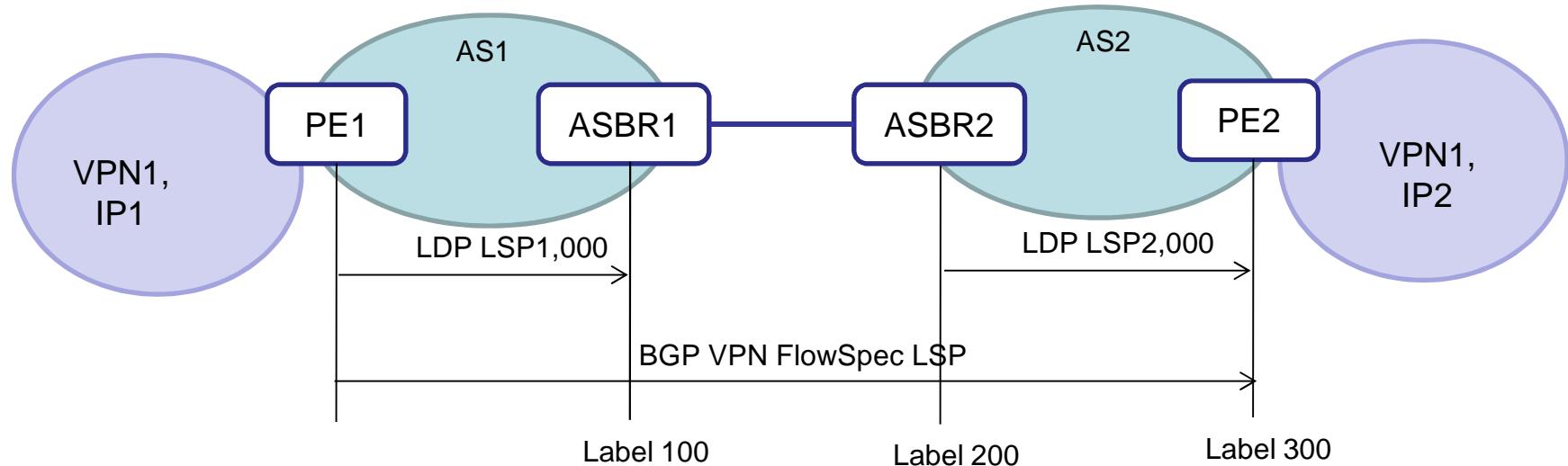
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Motivation

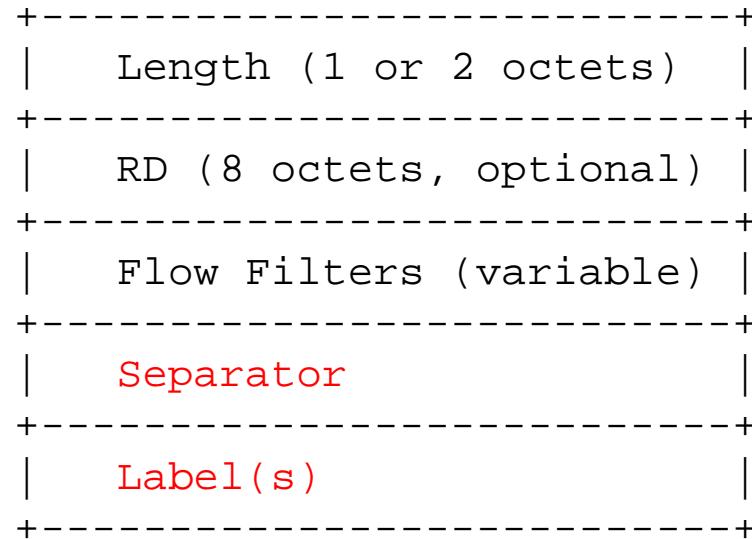
- Improve routing efficiency
 - FlowSpec rule mapped to a label
- Require traffic statistics per FlowSpec rule
 - Traffic statistics granularity should be improved based on FlowSpec rule rather than the destination prefix

Scenario



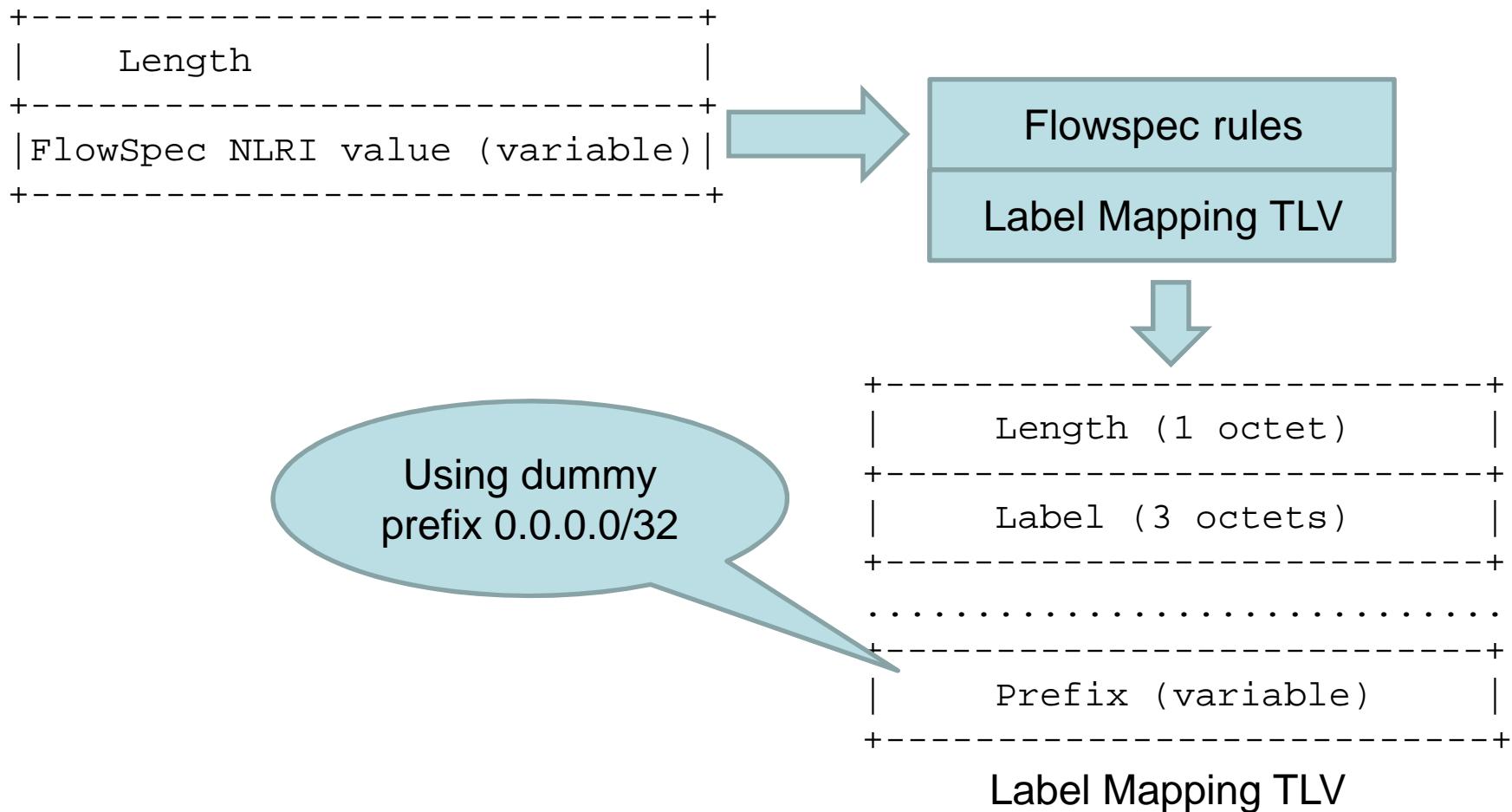
- FlowSpec Rule 1 (injected in PE2)
 - Filters: Destination IP prefix:IP2/32; Source IP prefix:IP1/32
 - Actions: traffic-marking: 1 (DSCP value)
- Forwarding Process on PE1 when receiving traffic from IP1 to IP2
 - PE1: Push 1,000 and 100
 - ASBR1: Pop 1,000, and then swap 100 to 200
 - ASBR2: swap 200 to 300, and then push 2,000
 - PE2: Pop all labels

Solution 1: New Flow-spec label(s) route



- **Separator**: indicates the separation between the flow filters field and label(s) field. This value should not be used by flow filters.
- **Label(s)**: This field carries zero or more labels (that corresponds to the stack of labels [RFC3032]).

Solution 2: Using RFC3107 to carry FlowSpec label(s)



Next Step

- Solicit comments and suggestions on the mailing list

Thank You!

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