BGP Flow Specification for SRv6

draft-li-idr-flowspec-srv6-01

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Overview

2 component types for SRv6 filtering

IPv6 Header

SRH

Match Field in this draft
Updates to Previous version
(Extensions to Flow Spec)

A Flow Specification is encoded in a BGP NLRI.

Flow Spec NLRI
Component Types: for IPv4/6
  Type 1 - Destination Prefix
  Type 2 - Source Prefix
  Type 3 - IP Protocol
  
  Type 10 - Packet length
  Type 11 - DSCP
  Type 12 - Fragment
  Type 13 - Flow Label (New type)

For IPv4/6:

For SRv6:

Type TBD1 - Whole SID in SRH
Type TBD2 - Parts of SID in SRH

Contains a list \( <\text{op}, \text{value} > \)s, defining match with whole SID (if SID is matched, then action on packet with SID)

Contains a list \( <\text{op}, \text{value} > \)s, defining matches with some parts/bits (such as LOC, FUNC, or ARGS) of SID (if they are matched, then action on packet with SID)
The lengths of **LOC**, **FUNCT**, **ARGS** in SID are indicated, each of which may be matched accordingly.

<table>
<thead>
<tr>
<th>LOC Length</th>
<th>FUNCT Length</th>
<th>ARGS Length</th>
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The lengths of **LOC**, **FUNCT**, **ARGS** in SID are indicated, each of which may be matched accordingly.
Next Step

Comments

Request for adoption