BGP Flow Specification v2

draft-hares-idr-flowspec-v2-03.txt

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BGP Flow Specification

- Provides for the distribution of filters (packet match criterion) and resulting actions. Applications: DoS mitigation, VPN traffic filtering, centralized router firewall control, SFC traffic insertion, etc.

- Flow Specification v1 (FSv1) is defined in RFCs 8955, 8956, 9117, and a few WG drafts.

- FSv1 problems:
  - Inconsistent TLV encoding blocks extensibility/
  - No user specification of filter/action order.
  - No specification of interaction between peers with no/different Flow Specification support.

- FSv2 is intended to fix these problems.
  - Uses new SAFIs to separate itself from FSv1.
Changes from -02 to -03 draft

• Authors
  • Welcome to Chaitanya Yadlapalli (ATT) and Sven Maduschke (Version) who have joined the draft effort as authors.

• Extensive additions: from 22 to 57 pages. More and improved material in almost all sections but particularly on the following topics:
  • Ordering including between rules received via FSv1 and FSv2.
  • Addition of Action Chain control for more flexible action failure handling.
  • Validation both routing and cryptographic (ROA/BGPSEC).
  • Manageability.
Upcoming

• Work is progressing on the personal draft.
  • Comments on the -03 draft are Welcome!

• FSv2 tentatively scheduled for the 13 December IDR WG virtual meeting.