

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.