# BGP Flow Specification – V Draft-hares-idr-flowspec-v2-00.txt

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### Flow Spec (RFC5575) Review

#### RFC 5575 summary

- NLRI
  - For SAFI 133: IPv4 (AFI=1), IPv6 (AFI=2), L2VPN AFI=25)
  - For SAFI 134: IPv4 (AFI=1), IPv6 (AFI=2), L2VPN (AFI=25)
- Validation
  - Originator of flow spec = originator of best-match unicast route for destination embedded in NLRI,
  - No more specific unicast routes, when compared with Flow destination prefix, that have been received from different neighbor AS

#### **Problems with RFC5575**

- No user-based ordering for filters or actions
- Security could be
  - Added to by BGPSEC or ROA
  - Could be lessened within a single AS [draft-ietf-idr-flowspec-oid]

### Flow Specification Policy

**ECA** = Event –Condition - Action • Flow-specification event = "packet FS Policy Rule List reception", Condition – match filters in NLRI Action – in Extended communities FS Rule Actions in Match Filters in **BGP** Extended **BGP NLRI** Communities SAFI 133, 1334 Modify Forward

#### New filter match with order

Figure 16 - NRLI revision

## New Action atom for BGP Wide Communities

```
order (2 octets)
Action type (2 octets)
Action length (2 octets)
Action Values (variable)
 (multiples of 2 octets)
Wide Community Atom
figure 17
```

#### **BGP-FS** Atom added to

Wide Communities container (type 1) or BGP Flow Specification container (type 2) (see below)

```
BGP-FS Container type 2
```

## Action Request

- Review comments
  - Need for Version 2 of BGP-FS
  - Input on solution