draft-litkowski-idr-flowspec-interfaceset-02

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Multiple outside connections in the network

How to deploy specific Flowspec rules on a specific set of interfaces?
interface-set extended community

- Transitive 4-B AS-specific extended community
  - Global admin : ASN of the originating router

- Local admin :

```
+---+---+---+---+---+---+---+---+
| O | I |   Group Identifier    :
+---+---+---+---+---+---+---+---+
| Group Identifier (cont.)      |
| : Flag to manage               |
| : flags to manage      +---+---+---+---+---+---+---+---+
| : direction of the       | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| : Fspec rule            |   |   |   |   |   |   |   |   |
| : (Input/output)      +---+---+---+---+---+---+---+---+
```

- Multiple interface-set on the same Fspec NLRI means « match-any »
WG discussions

• new NLRI instead vs EXTCT usage:
  - New NLRI may bring complexity in filtering at AS boundary (there is a high chance for intf groups to be local to an AS)
  - Use of EXTCT requires ADDPATH in some cases which is acceptable

• AS4Bytes extct vs RT:
  - We may need to define a transitive and non transitive version (to allow for better interAS management)
  - RT would allow for constrained route distribution
  - Reuse concepts described in MDCS draft? (include/exclude RTs)
  - Do we define a new RT type? (as for ES-Import) => we need to encode direction
Next steps …

• Feedbacks expressed on the list shows that this extension is useful

• Need to reach consensus on encoding

• Update the draft accordingly