

# Dissemination of Flow Specification Rules for L2 VPN

draft-hao-idr-flowspec-l2vpn-01

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# Introduction

BGP Flow-spec:

- dissemination of traffic flow specification rules

Typical application:

- DDOS mitigation

RFC 5575:

- IPv4 unicast filtering
- BGP/MPLS VPN filtering

The flow specification match criteria only includes L3/L4 IP information, not includes layer 2 Ethernet information.

- L2 VPN(EVPN,PBB-EVPN,VPLS,etc) network traffic filtering

**Need to define new layer 2 flow spec.**

# Ethernet Flow Specification encoding in BGP

A new BGP NLRI type (AFI=25, SAFI=TBD)

Additional component types for L2VPN Ethernet traffic filtering:

Type 13 - Source MAC

Type 14 - Destination MAC

Type 15 - Ethernet Type

Type 16 - VLAN ID

Type 17 - VLAN COS

BGP Extended Communities Type

0x080A Flow spec VLAN COS marking

# Next Step

- Seek some comments and feedbacks

# QUESTIONS?

# Extensions suggested by some

Add new component types for:

- PBB-EVPN
- TRILL-EVPN
- NVO3-EVPN

# Traffic Actions

## RFC 5575 Extended Community

type	Extended Community	encoding
0x8006	traffic-rate	2-byte as#, 4-byte float
0x8007	traffic-action	bitmask
0x8008	redirect	6-byte Route Target
0x8009	traffic-marking	DSCP value

type	New Extended Community	encoding
0x800A	VLAN COS marking	COS value