

# Flowspec Indirection-id Redirect for SRv6

`draft-ietf0-idr-srv6-flowspec-path-redirect-00`

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# FlowSpec Redirect to indirection-id Extended Community

- defined in draft-ietf-idr-flowspec-path-redirect for IPv4 as follows:

0	1	2	3																
0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1																			
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+																			
Type (0x09)   Sub-Type (0x00)   Flags(1 octet)   ID-Type																			
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+																			
Generalized indirection_id (4 octets)																			
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+																			

- Define a new sub-type for SRv6:

0	1	2	3																
0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1																			
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+																			
Type (0x09)   Sub-Type (0x01)   Flags(1 octet)   ID-Type																			
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+																			
Generalized indirection_id (16 octets)																			
~ ~																			
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+																			

Where :

- ✓ Type and Flags are the same as before
- ✓ Sub-Type is a new value TBD (0x01?)
- ✓ Indirection ID is 16 bytes instead of 4
- ✓ ID-Type for SRv6

# ID-Type for SRv6

ID-Type :

- ✓ 6 - Node ID with SID/index in SRv6 (indirection-id is mapped to an SRv6 SID using the indirection-id as global SRv6 SID/index)
- ✓ 7 - Binding SID with SID/index in SRv6 (indirection-id is mapped to an SRv6 binding SID using the indirection-id as index for global offset in the SID space)
- ✓ 8 - Binding SID with SID/index in SRv6 (indirection-id is mapped to an SRv6 binding SID using indirection-id as global SRv6 SID)

# Next Step

Request for adoption