Flowspec Indirection-id Redirect for SRv6

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

Gunter Van de Velde
Keyur Patel
Robin Li
Huaimo Chen
FlowSpec Redirect to indirection-id Extended Community

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

```
 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 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