

IDR FSv2

**draft-dmc-idr-flowspec-tn-
aware-mobility**

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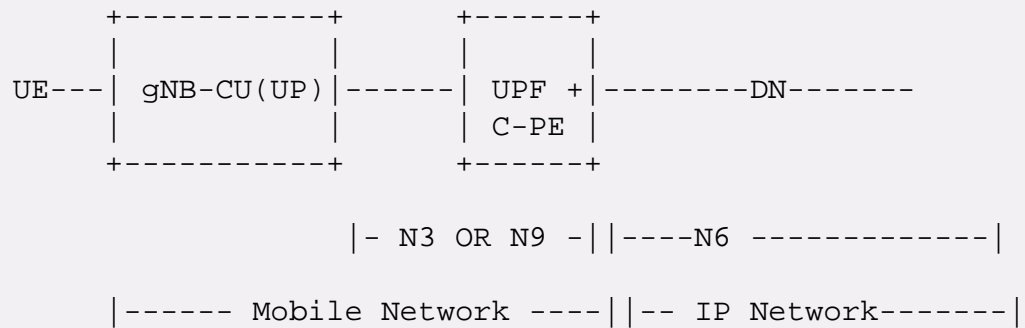
BGP Dissemination of FSv2 for Transport-Aware Mobility

draft-dmc-idr-flowspec-tn-aware-mobility-04

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Filters:

- FSv1 UDP range
- Source/destination prefix



Match Action:

Generalized Indirection ID

Figure 1: Mobile and IP Data Network for UE

Filter UDP port range: $i > \text{UDP port} < j$ using User ordered Port filters

Encoding

```
<Type = 6, [numeric_op1,i][numeric_op2, j]>
<Type = 2, [numeric_op3, Src-Prefix]>
<Type = 1, [numeric_op4, Dest-prefix]>
```

Numeric_Op1 is:

0	1	2	3	4	5	6	7
e	a	len	0	lt	gt	eq	
0	1	00	0	0	1	0	

Numeric_Op2 is:

0	1	2	3	4	5	6	7
e	a	len	0	lt	gt	eq	
1	1	00	0	1	0	0	

3 Rules

User-Order 1: Looks for UDP port range

User-Order 2: numeric_op3: compares source addresses

User-Order 3: numeric_op4: compares destination addresses

Where:

len == 0 - indicates two bytes of value [i] follow numeric_op1

Where:

len == 0 - indicates two bytes of value [j] follow numeric_op2.

Action: FSv2 Redirect to Indirection-ID Non-Transitive Extended Community IPsec SA

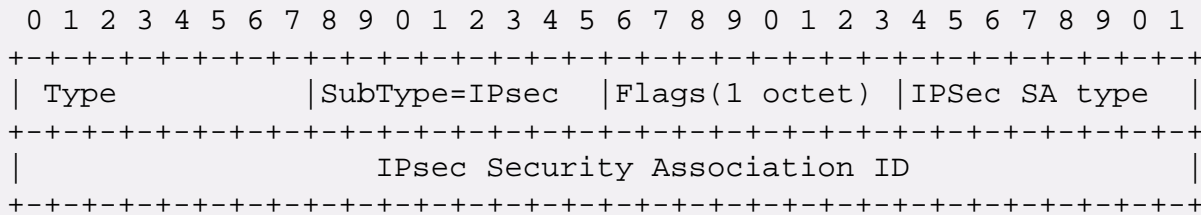
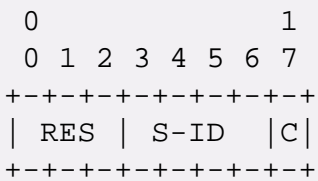


Figure 3: Redirect to Ind-ID Ext Community IPsec SA

Flag Byte:



Where:

- **Type** = 0x49 Non-Transitive FSv2 Redirect to Indirection-ID Extended Community for IPsec Tunnel ID.
- **Subtype** = 1 octet – IPsec (value = TBD). This value indicates that the 4octet indirection ID is IPsec Security Association ID (IPsec SA ID)
- **Flags**
 Res = Reserved, C = copy
 S-ID – 4-bit sequence ID field (0 – not set, non-zero – sequence)

Questions?

