RFC 5575 Redirect Extended Community

“Redirect: The redirect extended community allows the traffic to be redirected to a VRF routing instance that lists the specified route-target in its import policy. If several local instances match this criteria, the choice between them is a local matter (for example, the instance with the lowest Route Distinguisher value can be elected). This extended community uses the same encoding as the Route Target extended community [RFC4360].”
The Issue

• A Route Target is not only the 6 bytes of Value field but uses the Type-high octet as a “format specifier”.

• The Flowspec RFC only shows a single type/sub-type allocated: 0x8008

• This has lead several implementers to the conclusion that you simply try out all RT types using the Value field.

• *This is not how the feature is deployed.*
The fix

- A small draft updating RFC 5575 noting that the type field for the Redirect Extended Community is used the same as the Route Target extended Community, just ORed with 0x80.
- IANA is requested to update its registry to make the appropriate allocations.