NetFlow to Report Physical Bundle Member

It is desirable for NetFlow to report underlying physical members of the bundle interface, for traffic engineering purposes. NetFlow to report the physical member of a bundle interface, would be helpful in cases of capacity planning as you can determine if rerouting is necessary or if an extra member is required.

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Exporter Map

To verify NetFlow to Report Physical Bundle Member on FSM:

```
RP/0/RP0/CPU0:router#show running-config flow exporter-map <fem>
flow exporter-map fem dscp <num>

transport udp <port_num>
source <interface_word>
destination <IP> vrf <vrf_id>
```

Sampler Map

```
RP/0/RP0/CPU0:router#show running-config sampler-map fsm
sampler-map fsm
random 1 out-of <num>
```

Flow Monitor Map

To verify Flow Monitor map with different records:

```
RP/0/RP0/CPU0:router#show running-config flow monitor-map
flow monitor-map ipv4
record ipv4
exporter fem

flow monitor-map ipv4_1
record ipv4 peer-as
```

```
flow monitor-map ipv6
record ipv6

flow monitor-map mpls_1
record mpls labels <1-6>

flow monitor-map mpls_2
record mpls ipv4-ipv6-fields

flow monitor-map mpls_3
record mpls ipv4-fields

flow monitor-map mpls_4
record mpls ipv6-fields
```

Associating the Interface and Flow Monitor Map

To Associate the Interface and Flow Monitor Map:

```
RP/0/RP0/CPU0:router#show running-config interface bundle-ether 1
interface Bundle-Ether1
flow ipv4 monitor ipv4 sampler fsm ingress
flow ipv6 monitor ipv6 sampler fsm ingress
```

Verifying NetFlow

Note The output and input interface will be Bundle logical interface **without the option Outbundlemember**. **With the option Outbundlemember** cache will include the physical interface of the particular bundle.

To Configure **without** option Outbundlemember:

```
RP/0/RP0/CPU0:router(config)#flow monitor-map ipv4
RP/0/RP0/CPU0:fretta(config-fmm)#record ipv4
RP/0/RP0/CPU0:fretta(config-fmm)#exporter fem
RP/0/RP0/CPU0:fretta(config-sm)#commit
RP/0/RP0/CPU0:fretta(config-sm)#end
```

Verification:

```
RP/0/RP0/CPU0:router#show flow monitor-map ipv4
Flow Monitor Map : mpls
RecordMapName:     mpls-ipv4-ipv6 (6 labels)
ExportMapName:     fem
CacheAgingMode:    Normal
CacheMaxEntries:   65535
CacheActiveTout:   1800 seconds
CacheInactiveTout: 15 seconds
CacheRateLimit:    2000
```

To Configure **with** option Outbundlemember:

```
RP/0/RP0/CPU0:router(config)#flow monitor-map ipv4
RP/0/RP0/CPU0:router(config-fmm)#record ipv4
RP/0/RP0/CPU0:router(config-fmm)#exporter fem
RP/0/RP0/CPU0:router(config-fmm)#option outbundlemember
```

```
RP/0/RP0/CPU0:router(config-sm)#commit
RP/0/RP0/CPU0:router(config-sm)#end
```

Verification:

```
RP/0/RP0/CPU0:router#show flow monitor-map mpls
Flow Monitor Map : mpls
RecordMapName:     mpls-ipv4-ipv6 (6 labels)
ExportMapName:     fem
CacheAgingMode:    Normal
CacheMaxEntries:   65535
CacheActiveTout:   1800 seconds
CacheInactiveTout: 15 seconds
CacheRateLimit:    2000
Options:           outbundlemember
```