

Case I: Tunnel Preemption Test part 2.

I6. Test Results

Step I.1.5:

```
semtec#sh mpls traff lin adv
Flooding Status:      ready
Configured Areas:    1
IGP Area[1] ID:      ospf area 0
System Information:
  Flooding Protocol:  OSPF
Header Information:
  IGP System ID:     10.130.255.3
  MPLS TE Router ID: 10.130.255.3
  Flooded Links:     1
Link ID:              0
Link IP Address:     10.130.49.1
IGP Neighbor:        ID 10.130.255.2, IP 10.130.49.2
Admin. Weight:       1
Physical Bandwidth:  622000 kbits/sec
Res. Global BW:      20000 kbits/sec
Res. Sub BW:         5000 kbits/sec
Downstream:
      Global Pool      Sub Pool
      -----
Reservable Bandwidth[0]: 20000      5000 kbits/sec
Reservable Bandwidth[1]: 20000      5000 kbits/sec
Reservable Bandwidth[2]: 20000      5000 kbits/sec
Reservable Bandwidth[3]: 10000      5000 kbits/sec
Reservable Bandwidth[4]: 5000       5000 kbits/sec
Reservable Bandwidth[5]: 2000       2000 kbits/sec
Reservable Bandwidth[6]: 2000       2000 kbits/sec
Reservable Bandwidth[7]: 2000       2000 kbits/sec
Attribute Flags:       0x00000000
```

Verdict:

Pass. Administrative weight for Link 0 (L4) is set to the default (1).

Comments:

None.

Step I.2.0:

```
semtec#sh mpls traff tun
Name: semtec_t1 (Tunnel 1) Destination: 10.130.255.2
Status:
  Admin: up      Oper: up      Path: valid      Signaling: connected
  path option 1, type dynamic (Basis for Setup, path weight 1)
Config Parameters:
  Bandwidth: 10000 kbps (Global) Priority: 3 3 Affinity: 0x0/0xFFFF
  AutoRoute: disabled LockDown: disabled
InLabel : -
OutLabel : POS3/3, implicit-null
RSVP Signaling Info:
  Src 10.130.255.3, Dst 10.130.255.2, Tun_Id 1, Tun_Instance 381
RSVP Path Info:
  My Address: 10.130.255.3
  Explicit Route: 10.130.49.2 10.130.255.2
  Record Route: NONE
```

```
Tspec: ave rate=10000 kbits, burst=1000 bytes, peak rate=10000 kbits
RSVP Resv Info:
Record Route: NONE
Fspec: ave rate=10000 kbits, burst=1000 bytes, peak rate=Inf
History:
Current LSP:
Uptime: 10 minutes, 41 seconds
Prior LSP:
ID: path option 1 [374]
Removal Trigger: tunnel shutdown

Name: semtec_t2 (Tunnel 2) Destination: 10.130.255.2
Status:
Admin: up Oper: up Path: valid Signalling: connected
path option 1, type dynamic (Basis for Setup, path weight 1)

Config Parameters:
Bandwidth: 5000 kbps (Global) Priority: 4 4 Affinity: 0x0/0xFFFF
AutoRoute: disabled LockDown: disabled

InLabel : -
OutLabel : POS3/3, implicit-null
RSVP Signalling Info:
Src 10.130.255.3, Dst 10.130.255.2, Tun_Id 2, Tun_Instance 235
RSVP Path Info:
My Address: 10.130.255.3
Explicit Route: 10.130.49.2 10.130.255.2
Record Route: NONE
Tspec: ave rate=5000 kbits, burst=1000 bytes, peak rate=5000 kbits
RSVP Resv Info:
Record Route: NONE
Fspec: ave rate=5000 kbits, burst=1000 bytes, peak rate=Inf
History:
Current LSP:
Uptime: 10 minutes, 37 seconds
Prior LSP:
ID: path option 1 [231]
Removal Trigger: tunnel shutdown

Name: semtec_t3 (Tunnel 3) Destination: 10.130.255.2
Status:
Admin: up Oper: down Path: not valid Signalling: Down
path option 1, type dynamic

Config Parameters:
Bandwidth: 3000 kbps (Sub) Priority: 6 6 Affinity: 0x0/0xFFFF
AutoRoute: disabled LockDown: disabled

History:
Prior LSP:
ID: path option 1 [47]
Removal Trigger: path error
Last Error: PCALC:: No path to destination, 10.130.255.2

Name: semtec_t4 (Tunnel 4) Destination: 10.130.255.2
Status:
Admin: up Oper: up Path: valid Signalling: connected
path option 1, type dynamic (Basis for Setup, path weight 1)

Config Parameters:
Bandwidth: 3000 kbps (Sub) Priority: 5 5 Affinity: 0x0/0xFFFF
AutoRoute: disabled LockDown: disabled

InLabel : -
OutLabel : POS3/3, implicit-null
RSVP Signalling Info:
Src 10.130.255.3, Dst 10.130.255.2, Tun_Id 4, Tun_Instance 1932
RSVP Path Info:
My Address: 10.130.255.3
Explicit Route: 10.130.49.2 10.130.255.2
Record Route: NONE
Tspec: ave rate=3000 kbits, burst=1000 bytes, peak rate=3000 kbits
RSVP Resv Info:
Record Route: NONE
Fspec: ave rate=3000 kbits, burst=1000 bytes, peak rate=3000 kbits
History:
Current LSP:
Uptime: 9 minutes, 33 seconds
```

Prior LSP: ID: path option 1 [1931] Removal Trigger: tunnel shutdown
Verdict:
Pass. Tunnel 3 is pre-empted since its' priority (6) is lower than that of Tunnel 4 (priority 5).
Comments:
None.

Step I.2.1:																																										
Smartbits Output:																																										
<table border="1"> <thead> <tr> <th>Name</th> <th>Frame Size</th> <th>Load (%)</th> <th>Sent</th> <th>Received</th> <th>Lost</th> <th>Loss (%)</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td></td> <td>8</td> <td>405404</td> <td>405404</td> <td>0</td> <td>0</td> </tr> <tr> <td>Tunnel 1</td> <td>128</td> <td>8</td> <td>101351</td> <td>101351</td> <td>0</td> <td>0</td> </tr> <tr> <td>Tunnel 2</td> <td>128</td> <td>8</td> <td>101351</td> <td>101351</td> <td>0</td> <td>0</td> </tr> <tr> <td>Tunnel 3</td> <td>128</td> <td>8</td> <td>101351</td> <td>101351</td> <td>0</td> <td>0</td> </tr> <tr> <td>Tunnel 4</td> <td>128</td> <td>8</td> <td>101351</td> <td>101351</td> <td>0</td> <td>0</td> </tr> </tbody> </table>	Name	Frame Size	Load (%)	Sent	Received	Lost	Loss (%)	Total		8	405404	405404	0	0	Tunnel 1	128	8	101351	101351	0	0	Tunnel 2	128	8	101351	101351	0	0	Tunnel 3	128	8	101351	101351	0	0	Tunnel 4	128	8	101351	101351	0	0
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