



Verifying Segment Routing OAM

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Verifying Segment Routing OAM

This section provides information on the CLI commands that can be used to verify the segment routing OAM features.

- [Verifying Segment Routing OAM IS-IS](#)

Verifying Segment Routing OAM IS-IS

The following ping commands are used to display SR OAM when the underlying network is IS-IS:

```
switch# ping sr-mpls 11.1.1.3/32 fec-type igp isis
```

```
Sending 5, 100-byte MPLS Echos to IGP Prefix SID(IS-IS) FEC 11.1.1.3/32,  
timeout is 2 seconds, send interval is 0 msec:
```

```
Codes: '.' - success, 'Q' - request not sent, '.' - timeout,  
'L' - labeled output interface, 'B' - unlabeled output interface,  
'D' - DS Map mismatch, 'F' - no FEC mapping, 'f' - FEC mismatch,  
'M' - malformed request, 'm' - unsupported tlvs, 'N' - no label entry,  
'P' - no rx intf label prot, 'p' - premature termination of LSP,  
'R' - transit router, 'I' - unknown upstream index,  
'X' - unknown return code, 'x' - return code 0
```

```
Type Ctrl-C to abort.
```

```
!!!!
```

```
Success rate is 100 percent (5/5), round-trip min/avg/max = 2/2/3 ms  
Total Time Elapsed 18 ms
```

```
switch# traceroute sr-mpls 11.1.1.3/32 fec-type igp isis
```

```
Codes: '.' - success, 'Q' - request not sent, '.' - timeout,  
'L' - labeled output interface, 'B' - unlabeled output interface,  
'D' - DS Map mismatch, 'F' - no FEC mapping, 'f' - FEC mismatch,  
'M' - malformed request, 'm' - unsupported tlvs, 'N' - no label entry,  
'P' - no rx intf label prot, 'p' - premature termination of LSP,  
'R' - transit router, 'I' - unknown upstream index,  
'X' - unknown return code, 'x' - return code 0
```

```

Type Ctrl-C to abort.
  0 172.18.1.2 MRU 1500 [Labels: 16103 Exp: 0]
L 1 172.18.1.1 MRU 1504 [Labels: implicit-null Exp: 0] 4 ms
! 2 172.18.1.10 3 ms

switch# ping sr-mpls 11.1.1.3/32 fec-type igp isis verbose

Sending 5, 100-byte MPLS Echos to IGP Prefix SID(IS-IS) FEC 11.1.1.3/32,
  timeout is 2 seconds, send interval is 0 msec:

Codes: '!' - success, 'Q' - request not sent, '.' - timeout,
  'L' - labeled output interface, 'B' - unlabeled output interface,
  'D' - DS Map mismatch, 'F' - no FEC mapping, 'f' - FEC mismatch,
  'M' - malformed request, 'm' - unsupported tlvs, 'N' - no label entry,
  'P' - no rx intf label prot, 'p' - premature termination of LSP,
  'R' - transit router, 'I' - unknown upstream index,
  'X' - unknown return code, 'x' - return code 0

Type Ctrl-C to abort.
!   size 100, reply addr 172.18.1.10, return code 3
!   size 100, reply addr 172.18.1.10, return code 3
!   size 100, reply addr 172.18.1.10, return code 3
!   size 100, reply addr 172.18.1.10, return code 3
!   size 100, reply addr 172.18.1.10, return code 3

Success rate is 100 percent (5/5), round-trip min/avg/max = 2/2/3 ms
Total Time Elapsed 17 ms

switch# ping sr-mpls 11.1.1.3/32 fec-type igp isis destination 127.0.0.1 127.0.0.2 repeat
1 verbose

Sending 1, 100-byte MPLS Echos to IGP Prefix SID(IS-IS) FEC 11.1.1.3/32,
  timeout is 2 seconds, send interval is 0 msec:

Codes: '!' - success, 'Q' - request not sent, '.' - timeout,
  'L' - labeled output interface, 'B' - unlabeled output interface,
  'D' - DS Map mismatch, 'F' - no FEC mapping, 'f' - FEC mismatch,
  'M' - malformed request, 'm' - unsupported tlvs, 'N' - no label entry,
  'P' - no rx intf label prot, 'p' - premature termination of LSP,
  'R' - transit router, 'I' - unknown upstream index,
  'X' - unknown return code, 'x' - return code 0

Type Ctrl-C to abort.
Destination address 127.0.0.1
!   size 100, reply addr 172.18.1.10, return code 3

Destination address 127.0.0.2
!   size 100, reply addr 172.18.1.22, return code 3

Success rate is 100 percent (2/2), round-trip min/avg/max = 3/3/3 ms
Total Time Elapsed 8 ms

```