

# 配置SRTE上的EVPN服務

## 目錄

---

[簡介](#)

[必要條件](#)

[需求](#)

[採用元件](#)

[網路拓撲](#)

[分段路由流量工程概述](#)

[SRTE策略](#)

[SR-TE資料庫](#)

[用於填充SRTE資料庫的配置](#)

[驗證](#)

[靜態SRTE策略](#)

[組態](#)

[驗證](#)

[將靜態SRTE策略static-policy-evpnvpws與EVPN VPWS關聯](#)

[組態](#)

[驗證](#)

[隨選下一躍點\(ODN\)SRTE](#)

[組態](#)

[為EVPN ELAN服務使用ODN SRTE策略](#)

[組態](#)

[驗證](#)

[結論](#)

---

## 簡介

本檔案介紹如何透過區段路由流量工程(SRTE)設定乙太網路虛擬私人網路(EVPN)服務。

## 必要條件

### 需求

思科建議您瞭解以下基本知識：

- 中間系統到中間系統(ISIS)
- SRTE
- EVPN

### 採用元件

本檔案中的資訊是根據Device:聚合服務路由器9000(ASR9K)。

本文中的資訊是根據特定實驗室環境內的裝置所建立。文中使用到的所有裝置皆從已清除（預設）的組態來啟動。如果您的網路運作中，請確保您瞭解任何指令可能造成的影響。

網路拓撲

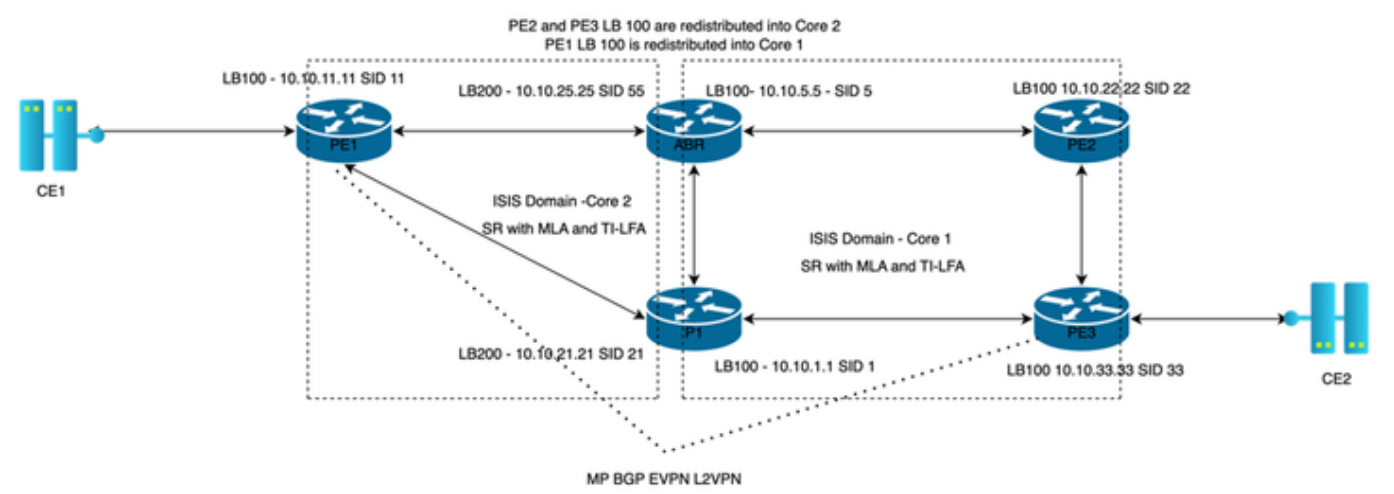
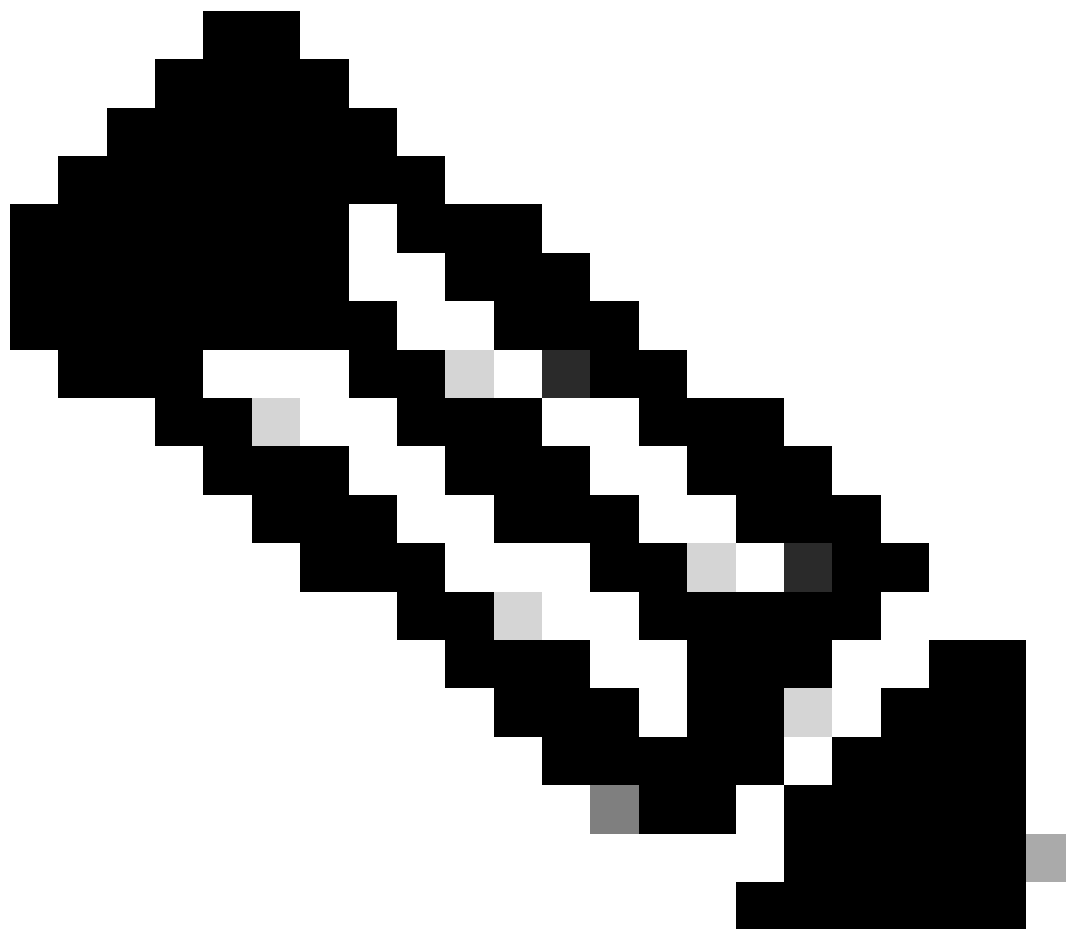


圖1.網路拓撲圖



附註：要建立域間SRTE策略，您需要使用PCE來檢視多個域中的所有節點。

---

## 分段路由流量工程概述

### SRTE策略

SR策略通過以下引數標識：

- 例項化/實施策略的前端
- 終結點（即策略的目標）
- 顏色（任意數值）

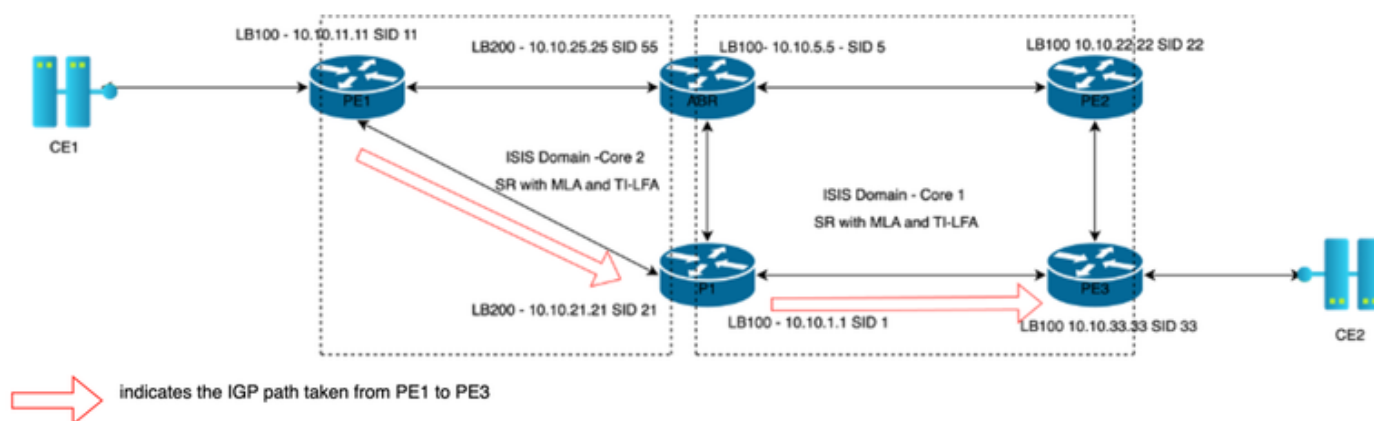
### SR-TE資料庫

SRTE資料庫是分段路由(SR)體系結構中的關鍵元件，用於儲存：

- 節點和網段的SID值。

- 有關網路拓撲的詳細資訊，包括可用鏈路、指標和限制（如頻寬或延遲）。
- 路由器使用它來根據SR策略中指定的預定義限制或最佳化目標確定轉發資料包的最佳路徑。

從PE1到PE3但不配置SRTE策略的IGP路徑：

[illegible]

### 圖2從PE1到PE3的IGP路徑

## 用於填充SRTE資料庫的配置

&lt;#root&gt;

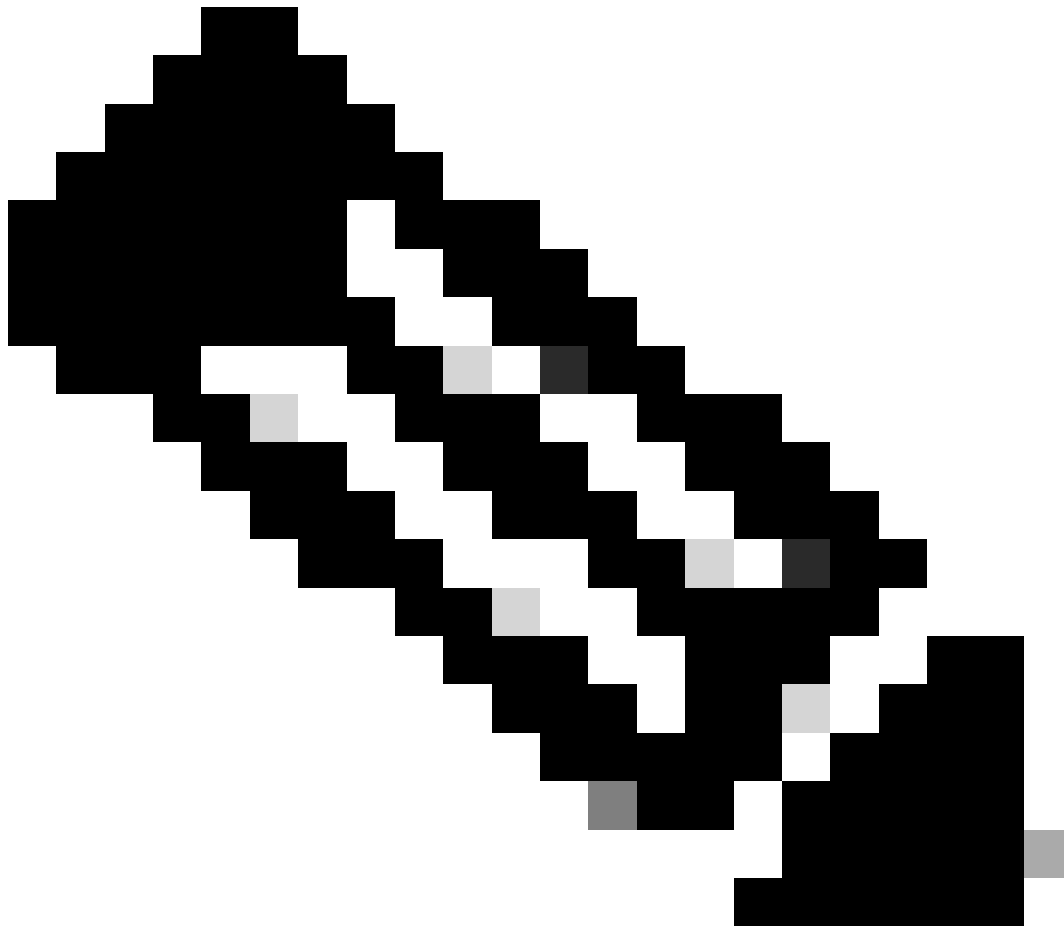
```
router isis core1
 is-type level-2-only
 net 49.0005.0000.1010.0505.00
```

```

distribute link-state

```

```
address-family ipv4 unicast
```



附註：

- 填充SRTE資料庫需要分發鏈路狀態。
- 未配置此命令時，SRTE資料庫將為空。

---

## 驗證

<#root>

```
RP/0/RSP0/CPU0:ASR9906-2-ABR #show segment-routing traffic-eng ipv4 topology  
SR-TE topology database
```

```
-----
```

Node 2

TE router ID: 10.10.1.1

Host name: ASR9910-4-P1

ISIS system ID: 0000.1010.0101 level-2

Prefix SID:

**Prefix 10.10.1.1, label 16001**

(regular), flags: X:0, R:0, N:1, P:1, E:1, V:0, L:0, M:0 >>>> node details  
Link[0]:

local address 10.10.15.1, remote address 10.10.15.5

Local node:  
  ISIS system ID: 0000.1010.0101 level-2  
Remote node:  
  TE router ID: 10.10.5.5  
  Host name: ASR9906-2-ABR  
  ISIS system ID: 0000.1010.0505 level-2

Metric: IGP 10, TE 10, Latency 10 microseconds >>>>>> metric and latency of this link between P1 and

Bandwidth: Total link 12499999744, Reservable 0 >>>>>> BW of this link

Admin-groups: 0x00000000  
Admin-groups-detail:

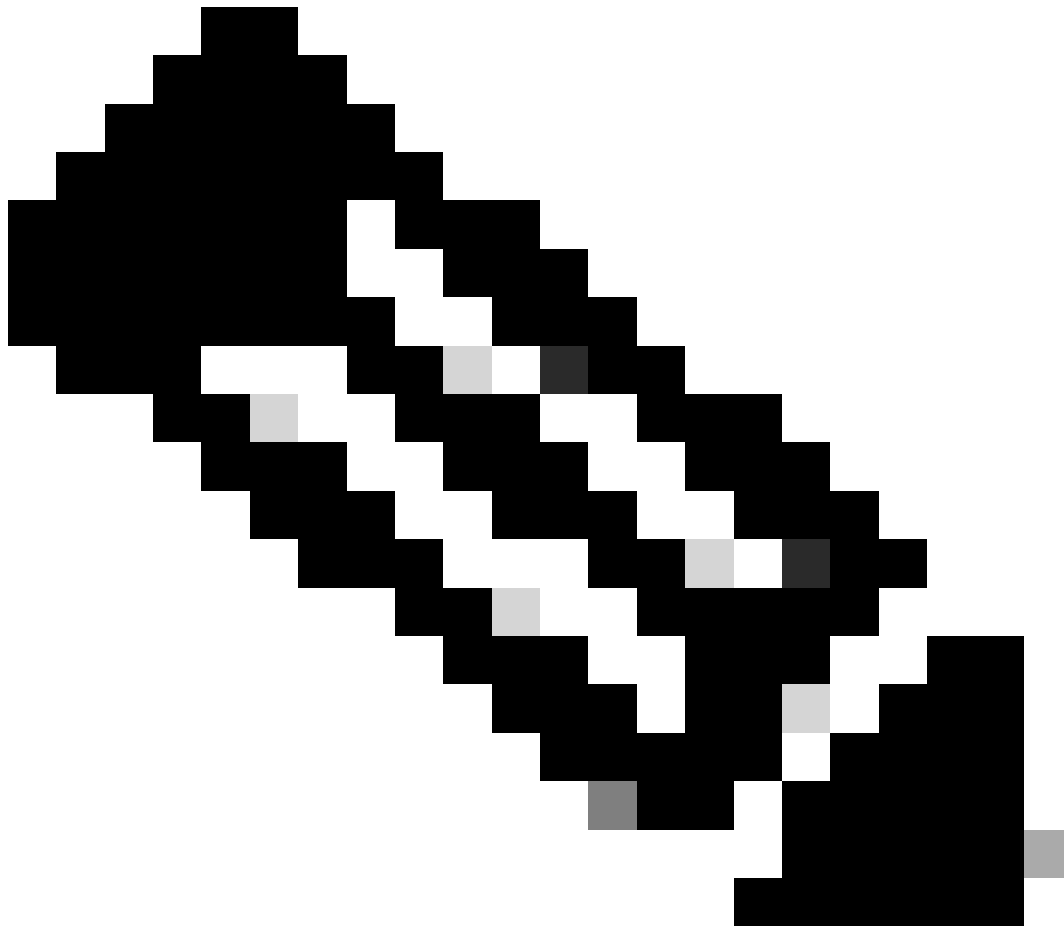
Adj SID: 24005 (protected) 24006 (unprotected) >>>>>> adj sid of link on P1

## 靜態SRTE策略

### 組態

在頭端路由器PE1上配置SRTE靜態策略：

```
segment-routing
traffic-eng
segment-list STATIC-SID-LIST
index 1 mpls label 16055 >>>>>> node SID of ABR
index 2 mpls label 16022 >>>>>> node SID of PE2
index 3 mpls label 16033 >>>>>> node SID of PE3
!
policy Static-policy-evpnvpws
binding-sid mpls 3000
color 10 end-point ipv4 10.10.33.33
candidate-paths
preference 5
explicit segment-list STATIC-SID-LIST
```



附註：

- 手動配置的繫結SID 3000
- 顏色為10，終點為PE3
- 此SR TE策略使用顯式SID清單控制預定義路徑中的流量

---

<#root>

RP/0/RSP1/CPU0:ASR9906-1-PE1#traceroute sr-mpls policy binding-sid 3000 lsp-end-point 10.10.33.33 source  
Type escape sequence to abort.

0 10.10.115.11 10.10.115.5 MRU 1500 [Labels:

**16022/16033**

Exp: 0/0]

L 1 10.10.115.5 10.10.225.22 MRU 1500 [Labels:

**explicit-null/16033**

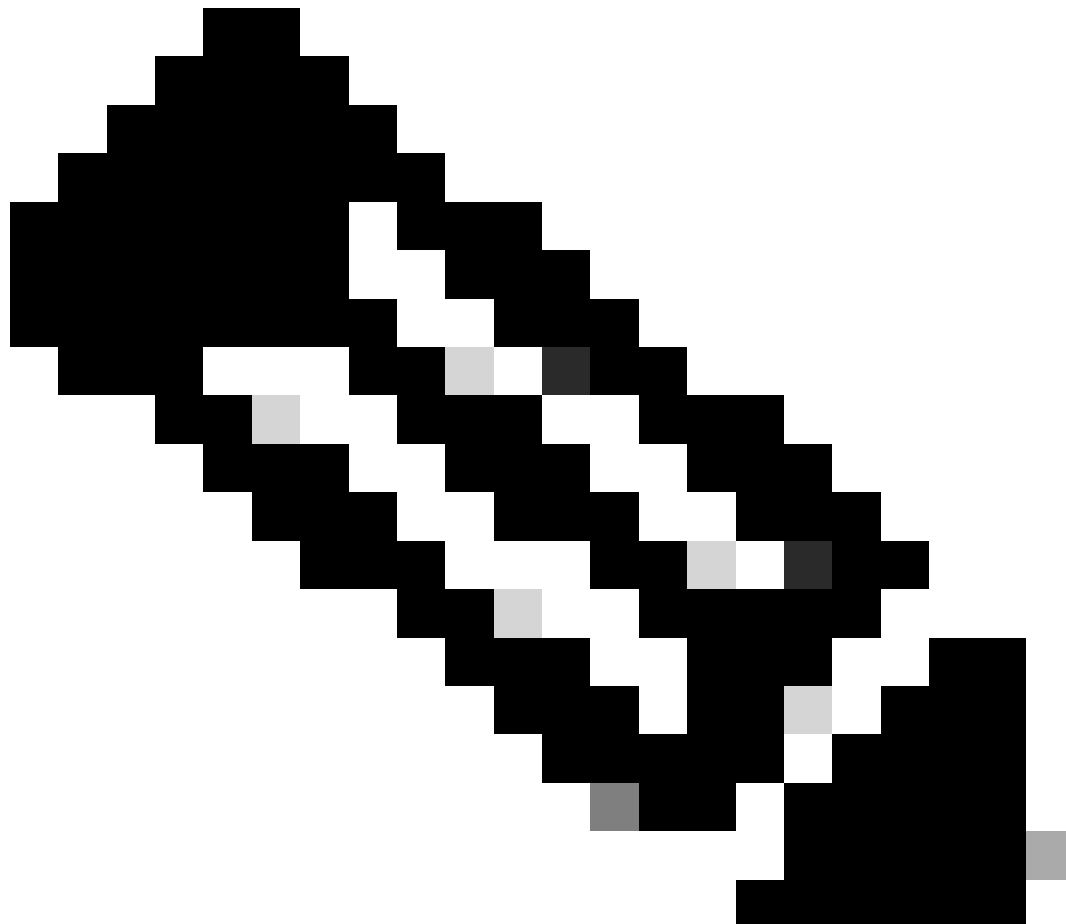
Exp: 0/0] 6 ms, ret code 8

L 2 10.10.225.22 10.10.123.33 MRU 1500 [Labels:

## explicit-null

Exp: 0] 5 ms, ret code 8  
! 3 10.10.123.33 5 ms, ret code 3

---



附註：第一跳為ABR，節點SID為16055;因此，在傳送封包時不會附加該封包。

---



Attributes:

&lt;#root&gt;

Color: 10, End-point: 10.10.33.33

**Local label: 24012**

Switched Packets/Bytes: 30/2740

**Next Hop: 10.10.115.5**

```
[MPLS -> MPLS]: 30/2740
FRR Pure Backup: No
ECMP/LFA Backup: No
Internal Recursive Label: Unlabelled (recursive)
Label Stack (Top -> Bottom): { 16022, 16033 }
```

Policy Packets/Bytes Switched: 30/2620>>>>>>> this counter shows the packets were transmitted using

<#root>

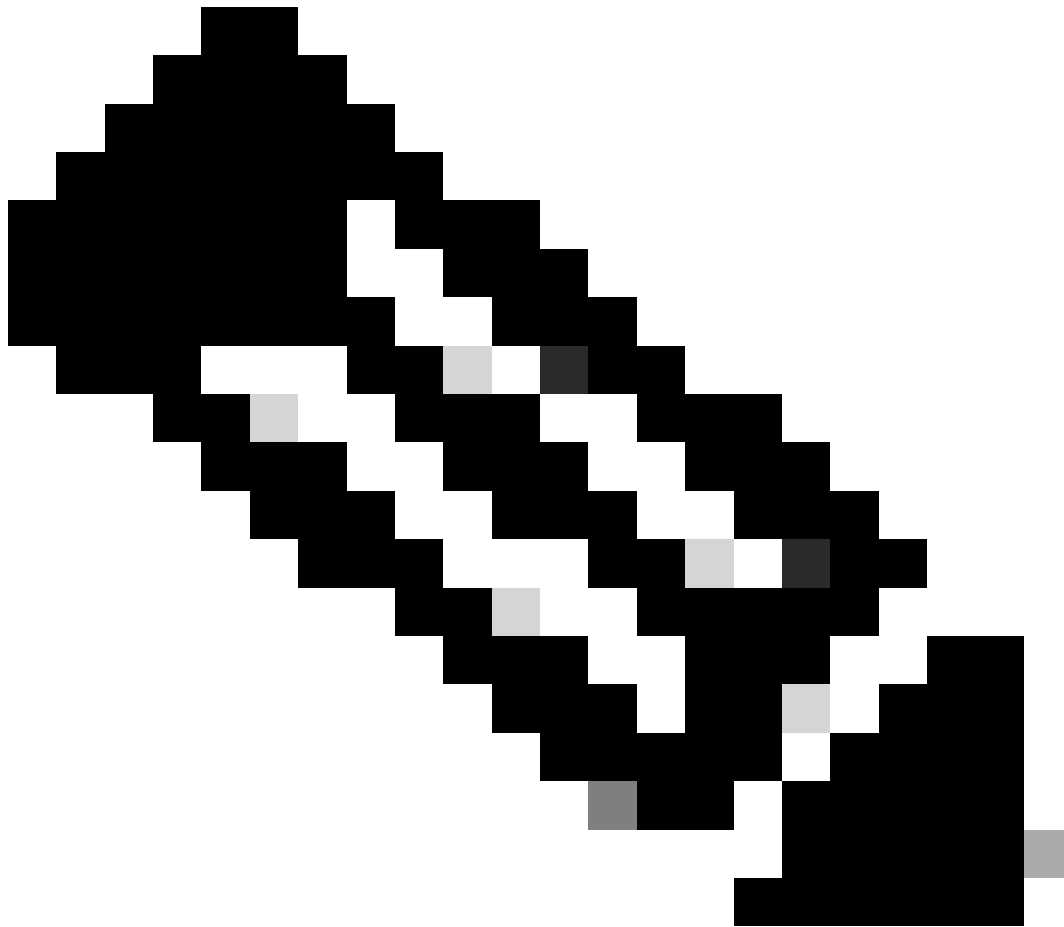
```
RP/0/RSP1/CPU0:ASR9906-1-PE1#show mpls forwarding labels 3000 detail
Local  Outgoing  Prefix      Outgoing    Next Hop      Bytes
Label  Label      or ID       Interface   point2point   Switched
-----
3000   Pop        No ID       srte_c_10_ep  point2point   2620
      Version: 69, Priority: 2

Label Stack (Top -> Bottom): { Unlabelled Imp-Null }

NHID: 0x0, Encap-ID: N/A, Path idx: 0, Backup path idx: 0, Weight: 0
MAC/Encaps: 0/0, MTU: 0

Outgoing Interface: srte_c_10_ep_10.10.33.33 (ifhandle 0x020001e0)
```

Packets Switched: 30



附註：3000 -Binding sid用於引導資料包進入SRTE。

<#root>

RP/0/RSP1/CPU0:ASR9906-1-PE1#show mpls forwarding labels 24012 detail

| Local<br>Label | Outgoing<br>Label | Prefix<br>or ID | Outgoing<br>Interface | Next Hop | Bytes<br>Switched |
|----------------|-------------------|-----------------|-----------------------|----------|-------------------|
|----------------|-------------------|-----------------|-----------------------|----------|-------------------|

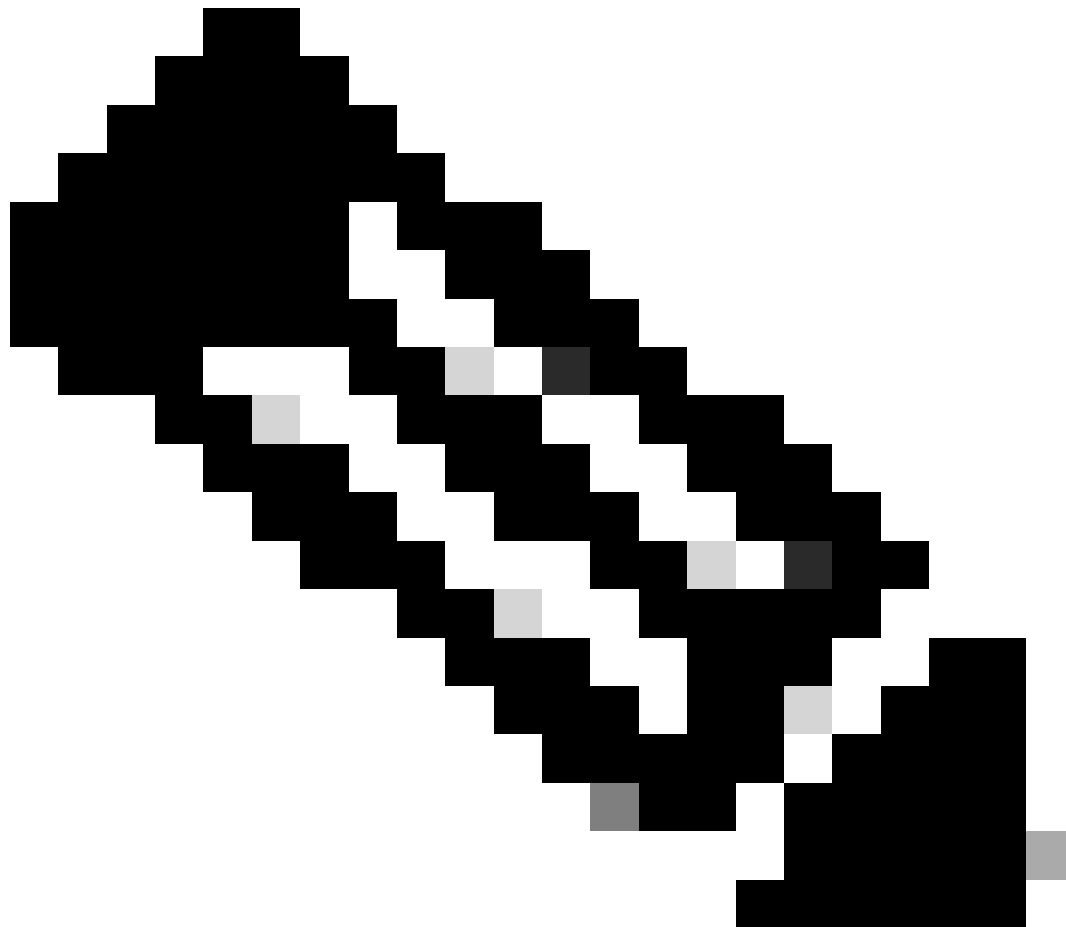
|       |       |                   |           |             |      |
|-------|-------|-------------------|-----------|-------------|------|
| 24012 | 16022 | SR TE: 1 [TE-INT] | Hu0/1/0/0 | 10.10.115.5 | 2740 |
|-------|-------|-------------------|-----------|-------------|------|

Version: 68, Priority: 2

Label Stack (Top -> Bottom): { 16022 16033 }

NHID: 0x0, Encap-ID: N/A, Path idx: 0, Backup path idx: 0, Weight: 0  
MAC/Encaps: 4/12, MTU: 1500

Outgoing Interface: HundredGigE0/1/0/0 (ifhandle 0x06000480)



附註：24012是分配給此策略的本地標籤，該標籤與策略的傳出標籤交換。

---

將靜態SRTE策略static-policy-evpnvpws與EVPN VPWS關聯

組態

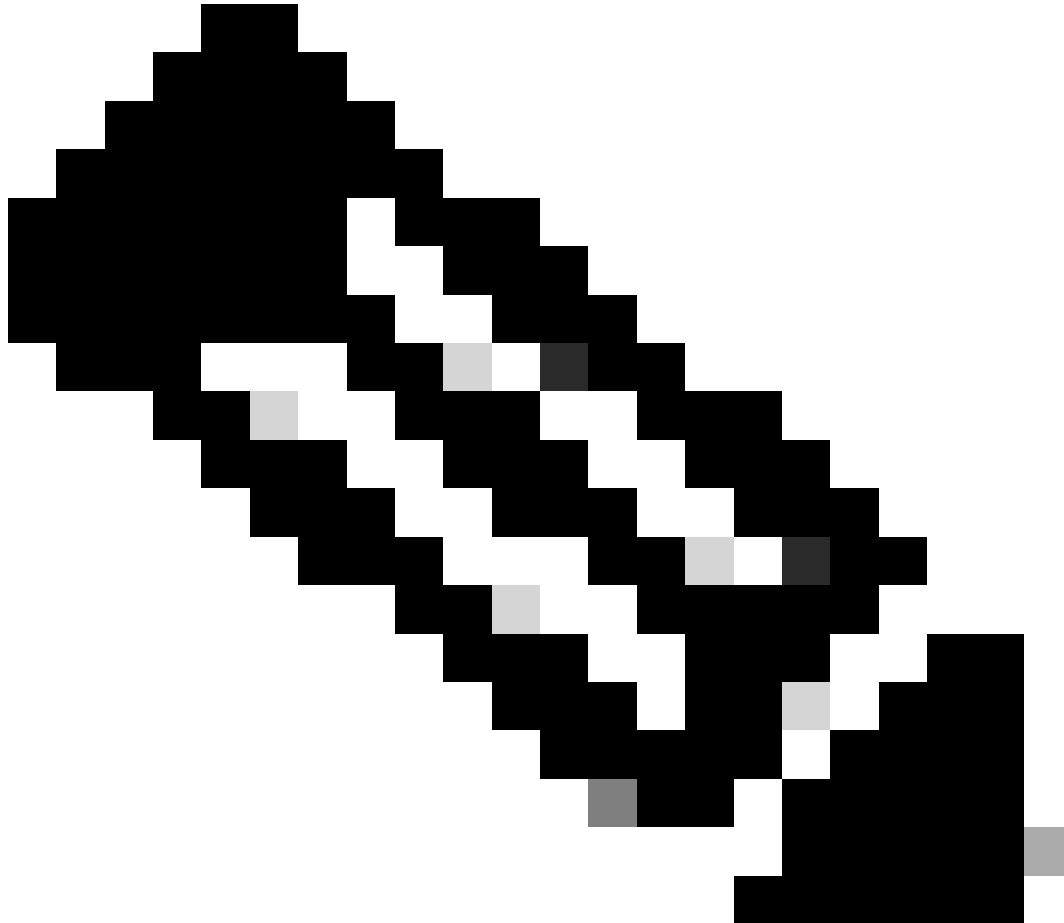
```
l2vpn
 pw-class evpn-srte
  encapsulation mpls
  preferred-path sr-te policy srte_c_10_ep_10.10.33.33
```

<#root>

```
xconnect group EVPN-vpws
p2p EVPN-vpws-400
interface HundredGigE0/1/0/2.400
neighbor evpn evi 400 target 333 source 111

pw-class evpn-srte
```

---



附註：EVPN路由沒有著色，因為SRTE策略與I2vpn手動關聯，並且所有通過此xconnect的流量都採用SRTE策略路徑。

---

## 驗證

```
RP/0/RSP1/CPU0:ASR9906-1-PE1#show bgp l2vpn evpn
Route Distinguisher: 10.10.11.11:400 (default for vrf VPWS:400)
*> [1][0000.0000.0000.0000.0000][111]/120
                                0.0.0.0                                0 i
*>i [1][0000.0000.0000.0000.0000][333]/120
```

10.10.33.33 100 0 i

RP/0/RSP1/CPU0:ASR9906-1-PE1#show l2vpn xconnect

| XConnect  |               |       | Segment 1     |       | Segment 2                |       |
|-----------|---------------|-------|---------------|-------|--------------------------|-------|
| Group     | Name          | ST    | Description   | ST    | Description              | ST    |
| -----     | -----         | ----- | -----         | ----- | -----                    | ----- |
| EVPN-vpws | EVPN-vpws-400 | UP    | Hu0/1/0/2.400 | UP    | EVPN 400,333,10.10.33.33 | UP    |

<#root>

RP/0/RSP1/CPU0:ASR9906-1-PE1#show l2vpn xconnect group EVPN-vpws xc-name EVPN-vpws-400 detail  
Group EVPN-vpws, XC EVPN-vpws-400,

state is up

; Interworking none

AC: HundredGigE0/1/0/2.400, state is up

Type VLAN; Num Ranges: 1

Rewrite Tags: []

VLAN ranges: [400, 400]

MTU 1500; XC ID 0x1800008; interworking none

Statistics:

packets: received 90, sent 89

bytes: received 7140, sent 7296

drops: illegal VLAN 0, illegal length 0

EVPN: neighbor 10.10.33.33, PW ID: evi 400, ac-id 333, state is up ( established

)

XC ID 0xa000000b

Encapsulation MPLS

Encap type Ethernet, control word enabled

Sequencing not set

Preferred path Active : SR TE srte\_c\_10\_ep\_10.10.33.33 (BSID:3000, IFH:0x20001e0), Statically configured

Ignore MTU mismatch: Enabled

Transmit MTU zero: Enabled

Tunnel : Up

| EVPN         | Local    | Remote   |
|--------------|----------|----------|
| -----        | -----    | -----    |
| Label        | 24014    | 24016    |
| MTU          | 1514     | unknown  |
| Control word | enabled  | enabled  |
| AC ID        | 111      | 333      |
| EVPN type    | Ethernet | Ethernet |
| -----        | -----    | -----    |

Create time: 14/01/2025 08:49:57 (1w1d ago)

Last time status changed: 14/01/2025 11:14:31 (1w0d ago)

Statistics:

packets: received 89, sent 90

bytes: received 7296, sent 7140

<#root>

RP/0/RSP1/CPU0:ASR9906-1-PE1#show ip database ifhandle 0x20001e0  
Node 0/RSP1/CPU0 (0x120)

Interface srte\_c\_10\_ep\_10.10.33.33,

```
ifh 0x020001e0 (up, 1500)
  Interface flags:          0x000000000042c457 (PHYS_ON_RP|REPLICATED
                                |DYN_REP|TUNNEL|IFINDEX|VIRTUAL|CONFIG|VIS|DATA
                                |CONTROL)
  Encapsulation:           mpls_te
  Interface type:           IFT_TUNNEL_TE
  Control parent:           None
  Data parent:              None
  Views:                    UL|GDP|LDP|G3P|L3P|OWN
  Protocol      Caps (state, mtu)
  -----
  None          mpls_te (up, 1500)
  ipv4          ipv4 (up, 1500)
  mpls          mpls (up, 1500)
  ipv6          ipv6_preswitch (up, 1500)
  ipv6          ipv6 (up, 1500)
```

## 隨選下一躍點(ODN)SRTE

ODN SRTE策略根據即時網路需求和指定的限制自動建立分段路由流量工程路徑，從而確保動態且高效的流量引導。

這些策略由與ODN策略共用相同顏色的已接收路由觸發。LSP（標籤交換路徑）端點動態地與這些路由的協定下一跳相關聯。

組態

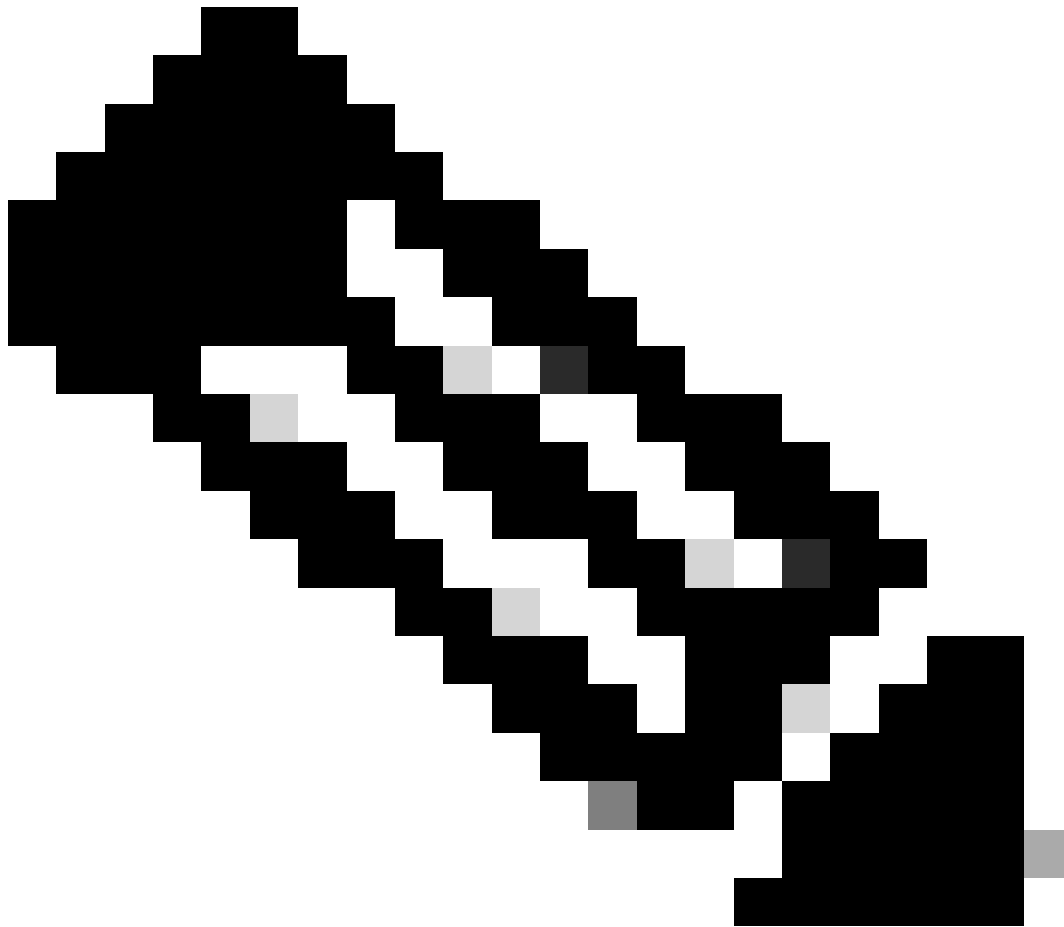
<#root>

```
segment-routing
traffic-eng
on-demand
```

color 500

```
dynamic
metric
type te
```





附註：此策略僅具有有效的LSP端點，該端點為具有匹配顏色擴展社群的已接收路由的下一跳。

---

## 為EVPN ELAN服務使用ODN SRTE策略

由於ODN SRTE是動態策略，因此接收的路由需要對500進行著色，因此對發往該路由的流量進行著色。如果路由沒有著色，則下一跳採用ODN SRTE策略路徑，則採用IGP路徑。

組態

```
<#root>
```

```
extcommunity-set opaque
```

```
color_500
```

```
500
```

end-set

顏色在擴展團體中定義：

<#root>

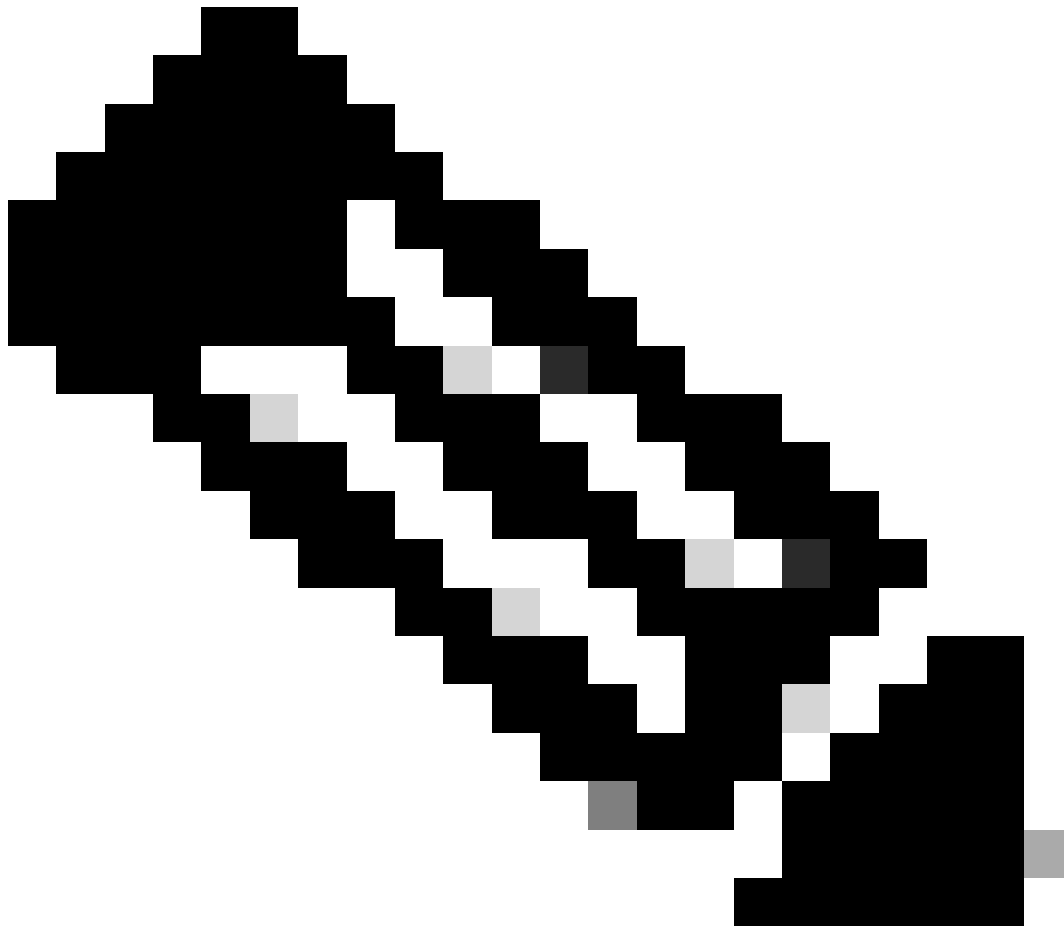
route-policy

**RPL\_color\_500**

if evpn-route-type is 1 or evpn-route-type is 3 then  
set extcommunity color

**color\_500**

endif  
end-policy



附註：

- 當BUM流量必須從PE1傳送到遠端PE3以便通過SRTE策略顏色500傳送時，evpn-route-type 3需要著色，因為它提供用於傳輸BUM流量的標籤。
- 對於單播流量，RT-2會通告MAC的單播標籤，但是當RT-2使用RPL著色時，會觀察到錯誤消息：

```
RP/0/RP0/CPU0:PE2#RP/0/RP0/CPU0: UTC: 12vpn_mgr[1291]: %L2-EVPN-4-ODN_ON_UNSUPPORTED_ROUTE : EVPN
```

- 將訪問介面（即使對於SH）與ESI相關聯，並根據EAD/EVI路由進行著色，以便通過SRTE策略引導流量：

---

<#root>

evi 500  
bgp

```

route-policy export
RPL_color_500

!
advertise-mac

l2vpn
bridge group EVPN-ELAN-500
  bridge-domain EVPN-ELAN-500
  interface HundredGigE0/1/0/2.500
  !
  evi 500

```

## 驗證

<#root>

```

RP/0/RSP0/CPU0:ASR9910-3-PE3#show bgp l2vpn evpn rd 10.10.33.33:500
Route Distinguisher: 10.10.33.33:500 (default for vrf EVPN-ELAN-500)
*>i [1] [0000.1111.1111.1111] [0]/120

```

**10.10.11.11 C:500**

```

100      0 i
*>i [1] [0000.1111.1111.1111] [4294967295]/120
      10.10.11.11      100      0 i
*> [1] [0000.2222.2222.2222] [0]/120
      0.0.0.0      0 i
*>i [3] [0] [32] [10.10.11.11]/80

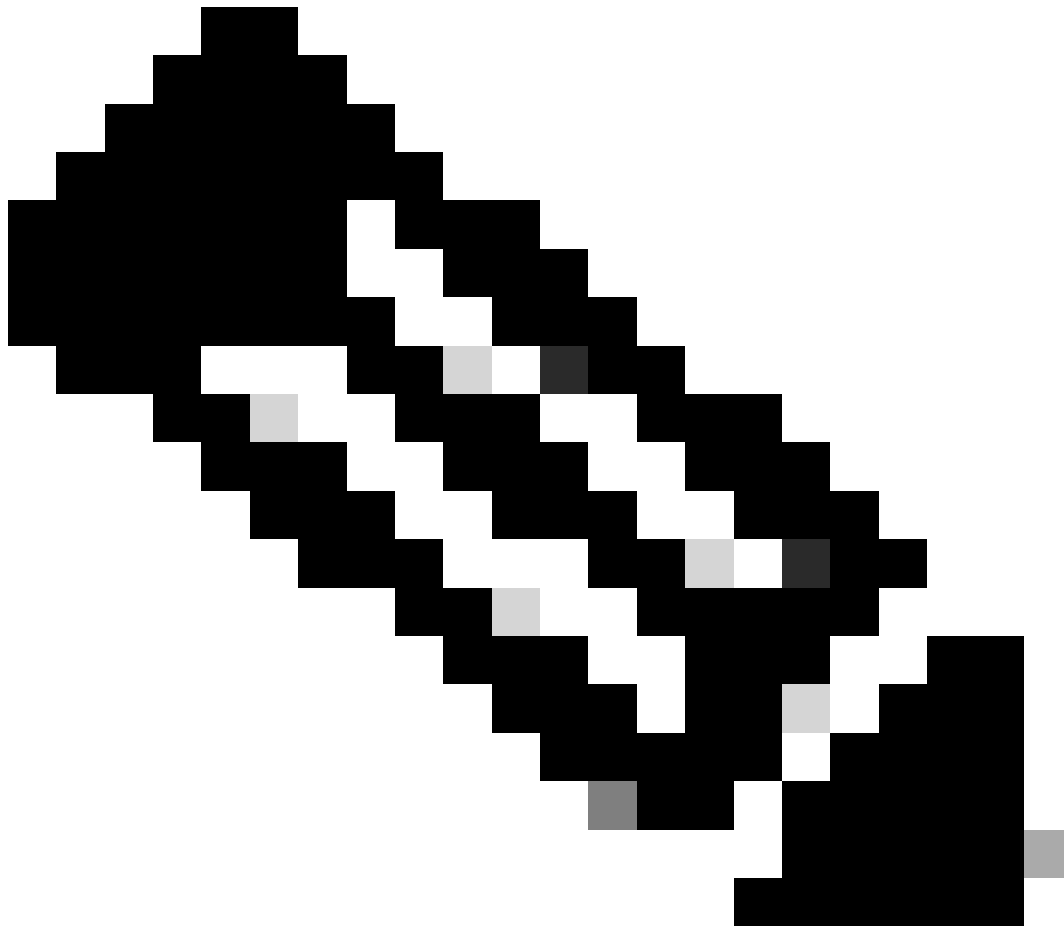
```

**10.10.11.11 C:500**

```

100      0 i
*> [3] [0] [32] [10.10.33.33]/80
      0.0.0.0      0

```



附註：當PE3收到具有擴展社群顏色500的路由型別1或3時，PE3啟動目的地為PE1的ODN SRTE策略500

每個EVI路由都連線到顏色擴展團體並連線到SRTE策略：

<#root>

```
RP/0/RSP0/CPU0:ASR9910-3-PE3#show bgp l2vpn evpn rd 10.10.33.33:500 [1][0000.1111.1111.1111.1111][0]/12
Not advertised to any peer
Local
```

```
10.10.11.11 C:500 (bsid:24020) (
metric 20) from 10.10.11.11 (10.10.11.11)
```

Received Label 24015

Origin IGP, localpref 100, valid, internal, best, group-best, import-candidate, imported, rib-ins

Received Path ID 0, Local Path ID 1, version 534  
Extended community: Color:500 RT:100:500

**SR policy color 500, up, registered, bsid 24020, if-handle 0x00000360**

Source AFI: L2VPN EVPN, Source VRF: default, Source Route Distinguisher: 10.10.11.11:500

每個ESI路由沒有顏色：

RP/0/RSP0/CPU0:ASR9910-3-PE3# show bgp l2vpn evpn rd 10.10.33.33:500 [1][0000.1111.1111.1111.1111][4294  
Local

10.10.11.11 (metric 20) from 10.10.11.11 (10.10.11.11)

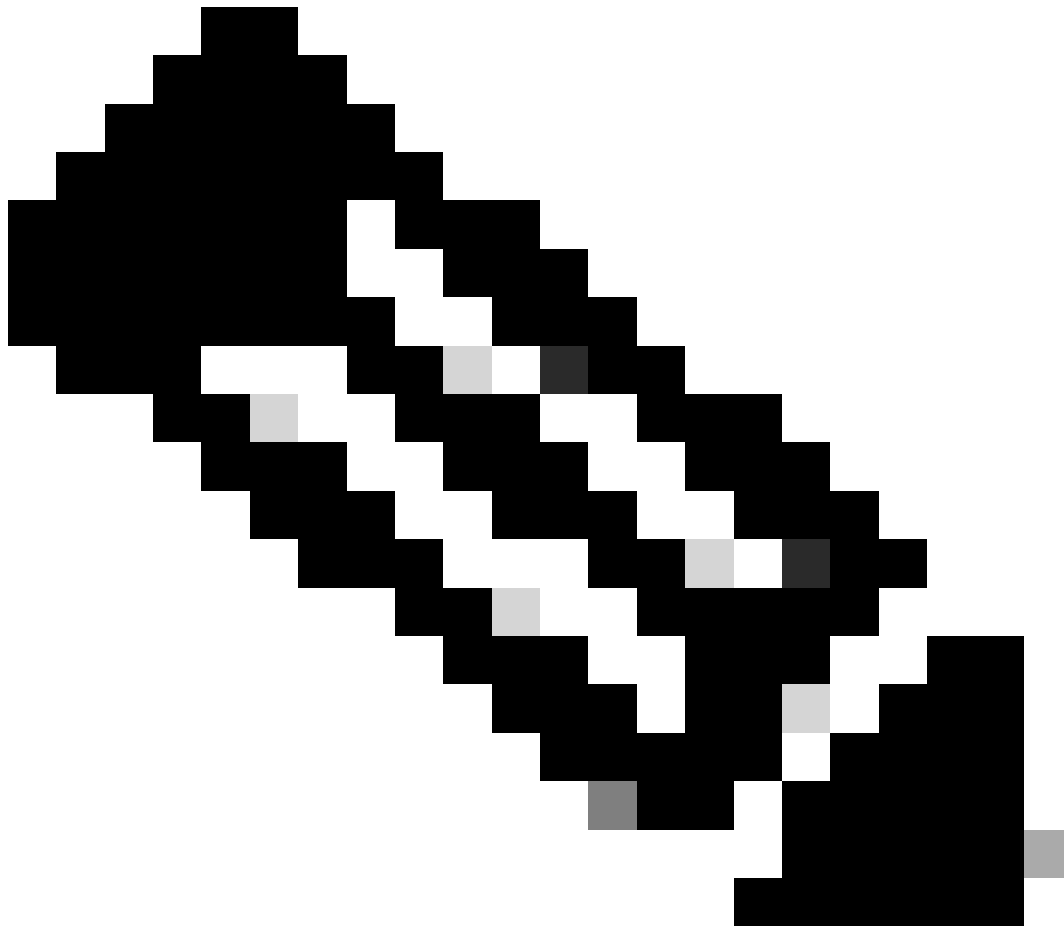
Received Label 0

Origin IGP, localpref 100, valid, internal, best, group-best, import-candidate, imported, rib-ins

Received Path ID 0, Local Path ID 1, version 539

Extended community: EVPN ESI Label:0x01:24017 RT:100:100 RT:100:400 RT:100:500 RT:300:300

Source AFI: L2VPN EVPN, Source VRF: default, Source Route Distinguisher: 10.10.11.11:1



附註：每個ESI路由沒有著色，因為它與多個EVI關聯，並且所有EVI都不採用SRTE路徑。

---

路由型別-3已著色：

<#root>

```
RP/0/RSP0/CPU0:ASR9910-3-PE3#show bgp l2vpn evpn rd 10.10.33.33:500 [3][0][32][10.10.11.11]/80
Local
```

**10.10.11.11 C:500 (bsid:24020)**

```
(metric 20) from 10.10.11.11 (10.10.11.11)
  Origin IGP, localpref 100, valid, internal, best, group-best, import-candidate, imported
  Received Path ID 0, Local Path ID 1, version 524
  Extended community: Color:500 RT:100:500
  PMSI: flags 0x00, type 6, label
```

**24016**

, ID 0x0a0a0b0b

SR policy color 500, up, registered, bsid 24020, if-handle 0x00000360

Source AFI: L2VPN EVPN, Source VRF: default, Source Route Distinguisher: 10.10.11.11:500

路由型别2未著色：

RP/0/RSP1/CPU0:ASR9906-1-PE1# show bgp l2vpn evpn rd 10.10.11.11:500 [2][0][48][bce7.12a3.b716][0]/104  
Local

10.10.33.33 (metric 10) from 10.10.33.33 (10.10.33.33)

Received Label 24010

Origin IGP, localpref 100, valid, internal, best, group-best, import-candidate, imported, rib-ins

Received Path ID 0, Local Path ID 1, version 302

Extended community: So0:10.10.33.33:500 0x060e:0000.0000.01f4 RT:100:500

EVPN ESI: 0000.2222.2222.2222.2222

Source AFI: L2VPN EVPN, Source VRF: default, Source Route Distinguisher: 10.10.33.33:500

<#root>

RP/0/RSP0/CPU0:ASR9910-3-PE3#show segment-routing traffic-eng policy color 500

SR-TE policy database

-----

Color: 500, End-point: 10.10.11.11

Name: srte\_c\_500\_ep\_10.10.11.11

Status:

Admin: up Operational: up for 6d22h

Candidate-paths:

Preference: 200 (BGP ODN) (active)

Requested BSID: dynamic

Constraints:

Protection Type: protected-preferred

Maximum SID Depth: 10

Dynamic (valid)

Metric Type: TE, Path Accumulated Metric: 20

16001 [Prefix-SID, 10.10.1.1]

16005 [Prefix-SID, 10.10.5.5]

16011 [Prefix-SID, 10.10.11.11]



Preference: 100 (BGP ODN) (inactive)  
Requested BSID: dynamic  
PCC info:  
Symbolic name: bgp\_c\_500\_ep\_10.10.11.11\_discr\_100  
PLSP-ID: 1  
Constraints:  
Protection Type: protected-preferred  
Maximum SID Depth: 10  
Dynamic (pce) (inactive)  
Metric Type: NONE, Path Accumulated Metric: 0  
Attributes:  
Binding SID: 24020  
Forward Class: Not Configured  
Steering labeled-services disabled: no  
Steering BGP disabled: no  
IPv6 caps enable: yes  
Invalidation drop enabled: no  
Max Install Standby Candidate Paths: 0

EVI 500的單點傳播流量通過SRTE傳送，輸出可確認此情況：

<#root>

RP/0/RSP0/CPU0:ASR9910-3-PE3#show evpn internal-label vpn-id 500 private

| VPN-ID                                             | Encap | Ethernet Segment Id      | EtherTag | Label |
|----------------------------------------------------|-------|--------------------------|----------|-------|
| 500                                                | MPLS  | 0000.1111.1111.1111.1111 | 0        | None  |
| Multi-paths resolved: FALSE (Remote single-active) |       |                          |          |       |
| Multi-paths Internal label: None                   |       |                          |          |       |
| EAD/ES                                             |       | 10.10.11.11              |          | 0     |
| Path Version:2, Originating PE:::                  |       |                          |          |       |

EAD/EVI SR-TE BSID 24020

10.10.11.11

24015

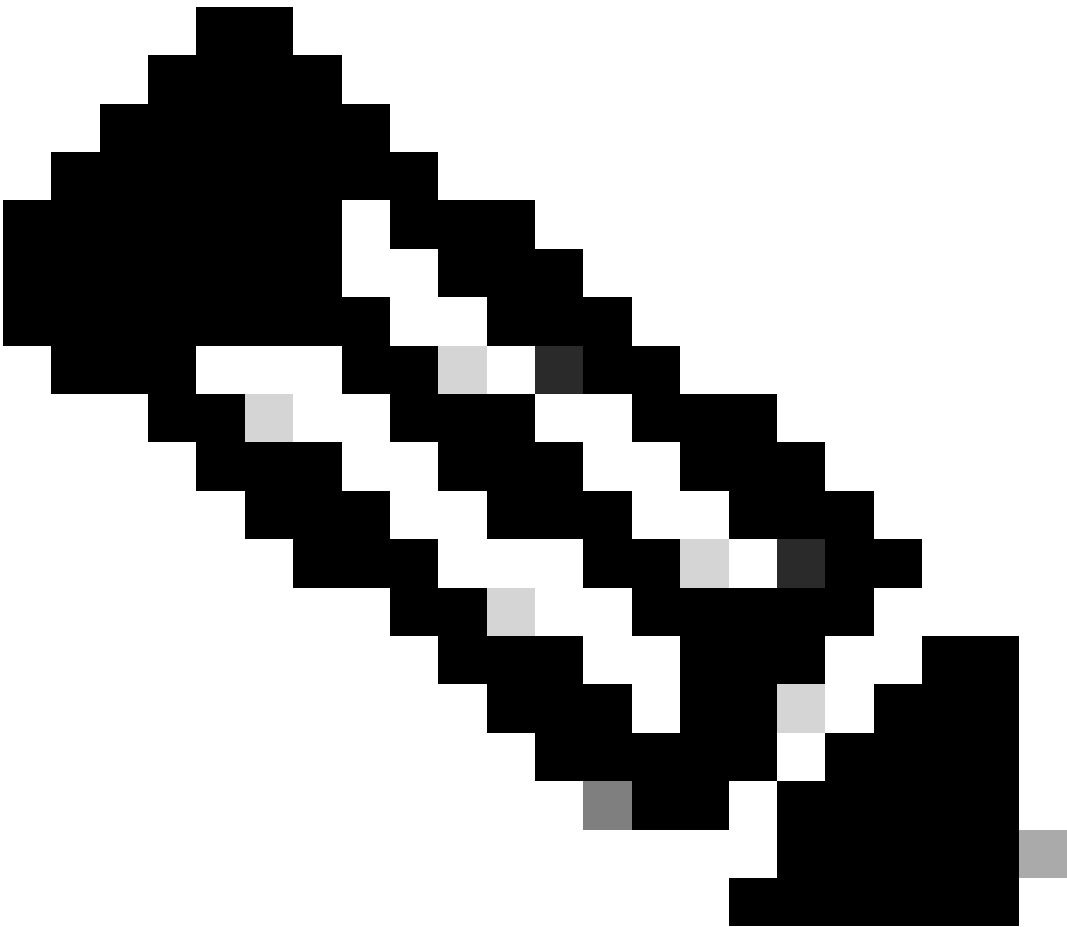
Path Version:4, Originating PE:::

Num EAD objects linked: 2  
Source: MPLS  
Local CW: Unknown  
Local MTU: 0  
Local ignore MTU mismatch: Enabled  
Next path version: 5  
Object: EVPN LABEL  
Base info: version=0xdbdb000a, flags=0x4000, type=10, reserved=0  
EVPN Internal-Label event history [Num events: 16]

| Time                | Event                         | Flags    | Flags        |
|---------------------|-------------------------------|----------|--------------|
| ====                | =====                         | =====    | =====        |
| Jan 28 19:53:08.224 | LSD Label Req (Add/Del)       | 00000de1 | 00005dd8 - - |
| Jan 28 21:29:09.888 | Modify Redundant              | 00000000 | 00000000 - - |
| Jan 28 21:29:09.888 | Int-Lbl Multi-Path Resolution | 01010100 | 0100020e - - |
| Jan 28 21:29:09.888 | LSD Label Req (Add/Del)       | 00000add | 00100001 - - |

|                     |                               |          |          |   |   |
|---------------------|-------------------------------|----------|----------|---|---|
| Jan 28 21:29:09.888 | LSD Label Got                 | 01f40000 | 01005dd8 | - | - |
| Jan 28 23:27:01.632 | LSD Label Req (Add/Del)       | 00000de1 | 00005dd8 | - | - |
| Jan 29 01:06:15.808 | Modify Redundant              | 00000000 | 00000000 | - | - |
| Jan 29 01:06:15.808 | Int-Lbl Multi-Path Resolution | 01010100 | 0100020e | - | - |
| Jan 29 01:06:15.808 | LSD Label Req (Add/Del)       | 00000add | 00100001 | - | - |
| Jan 29 01:06:15.808 | LSD Label Got                 | 01f40000 | 01005dd8 | - | - |
| Jan 29 03:00:44.416 | LSD Label Req (Add/Del)       | 00000de1 | 00005dd8 | - | - |
| Jan 29 04:45:32.032 | Modify Redundant              | 00000000 | 00000000 | - | - |
| Jan 29 04:45:32.032 | Int-Lbl Multi-Path Resolution | 01010100 | 0100020e | - | - |
| Jan 29 04:45:32.032 | LSD Label Req (Add/Del)       | 00000add | 00100001 | - | - |
| Jan 29 04:45:32.032 | LSD Label Got                 | 01f40000 | 01005dd8 | - | - |
| Jan 29 06:34:24.000 | LSD Label Req (Add/Del)       | 00000de1 | 00005dd8 | - | - |

-----



附註：24015 — 是PE1通告的每EVI標籤。

---

|                                                                |          |        |           |          |          |
|----------------------------------------------------------------|----------|--------|-----------|----------|----------|
| RP/0/RSP0/CPU0:ASR9910-3-PE3#show mpls forwarding labels 24020 |          |        |           |          |          |
| Local                                                          | Outgoing | Prefix | Outgoing  | Next Hop | Bytes    |
| Label                                                          | Label    | or ID  | Interface |          | Switched |

-----

24020   Pop                      No ID                      srte\_c\_500\_e point2point                      4182

-----

<#root>

RP/0/RSP0/CPU0:ASR9910-3-PE3#show l2vpn forwarding bridge-domain EVPN-ELAN-500:EVPN-ELAN-500 evpn inclu

| Bridge-Domain Name | BD-ID | XCID | TEP-id | Next Hop | Label/VNI | Encap |
|--------------------|-------|------|--------|----------|-----------|-------|
|--------------------|-------|------|--------|----------|-----------|-------|

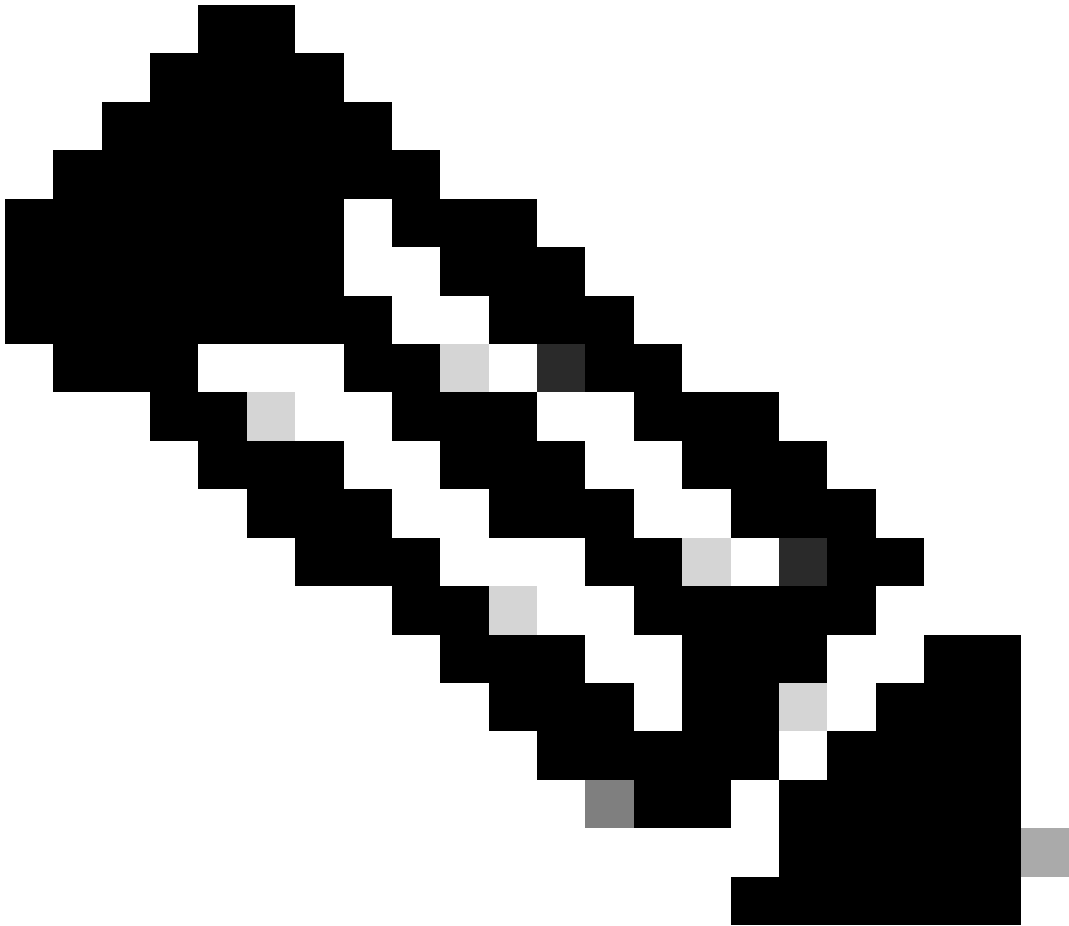
-----

|                                      |   |            |  |            |  |  |
|--------------------------------------|---|------------|--|------------|--|--|
| EVPN-ELAN-500:EVPN-ELAN-500          | 2 | 0x8000000b |  |            |  |  |
| Status: bound                        |   |            |  |            |  |  |
| Flags: default multicast replication |   |            |  |            |  |  |
|                                      |   |            |  | 0x02000001 |  |  |

-----

SRTE BSID 24020

|       |    |       |      |
|-------|----|-------|------|
| 24016 | 10 | bound | Root |
|-------|----|-------|------|



附註：24016 - PE1在路由型別-3中通告的BUM標籤。

## 結論

使用SR-TE的EVPN將EVPN強大的服務交付的優勢與SR-TE的流量工程和操作簡便性結合在一起，從而形成靈活、可擴展且高效的網路架構。

## 關於此翻譯

思科已使用電腦和人工技術翻譯本文件，讓全世界的使用者能夠以自己的語言理解支援內容。請注意，即使是最佳機器翻譯，也不如專業譯者翻譯的內容準確。Cisco Systems, Inc. 對這些翻譯的準確度概不負責，並建議一律查看原始英文文件（提供連結）。