

从重分发到OMP中排除路由

目录

[简介](#)

[先决条件](#)

[要求](#)

[使用的组件](#)

[配置](#)

[本地化策略+ CLI插件模板](#)

[CLI插件模板](#)

[集中控制策略](#)

[确认](#)

[本地化策略+ CLI插件模板](#)

[CLI插件模板](#)

[集中控制策略](#)

[相关信息](#)

简介

本文档介绍如何排除不需要的路由重分发到重叠管理协议(OMP)中。

先决条件

要求

建议掌握下列主题的相关知识：

- 思科软件定义的广域网(SD-WAN)
- 路由

使用的组件

本文档中的信息基于以下软件和硬件版本：

- 思科vManage版本20.6.5.2
- 思科广域网边缘路由器17.6.3a

本文档中的信息都是基于特定实验室环境中的设备编写的。本文档中使用的所有设备最初均采用原始（默认）配置。如果您的网络处于活动状态，请确保您了解所有命令的潜在影响。

配置

默认情况下，已连接、静态、OSPF区域间以及OSPF区域内均被重分发到OMP。

本地化策略+ CLI插件模板

在本使用案例中，您不想在vrf 1中重分布其中一个已连接路由。默认情况下，所有连接的路由都会重分布到OMP中，此用例有助于过滤特定连接前缀。

1.本地化政策

在Localized policy的自定义选项下创建新的前缀列表：需要前缀才能知道需要重分发的路由。

Localized Policy > Define Lists

Select a list type on the left and start creating your groups of interest

Name	Entries	Internet Protocol	Reference Count
Loopback2_allow	192.168.50.2/32	IPv4	1

创建路由策略并将其应用于本地化策略：匹配之前创建的前缀，并将操作设置为Accept。路由策略在推送到广域网边缘设备后会转换为路由映射。

Localized Policy > Route Policy > Edit Route Policy

Name: Loopback2_allow_local_policy
Description: Loopback2_allow_local_policy

Route

Sequence Rule Drag and drop to re-arrange rules

Match Actions

Protocol: IPv4

Address AS Path List Community List Extended Community List BGP Local Preference Metric Next Hop OMP Ts

Match Conditions

Address: Loopback2_allow

Actions: Accept Enabled

Cancel Save Match And Actions

默认操作必须为Reject，因为需要重新分发之前创建的前缀。

Localized Policy > Route Policy > Edit Route Policy

Name: Loopback2_allow_local_policy

Description: Loopback2_allow_local_policy

Sequence Type

Drag & drop to reorder

Route

Default Action

Default Action

Default Action	
Reject	Enabled

预览：这是创建本地化策略后配置的外观。

Policy Configuration Preview

```
policy
route-policy Loopback2_allow_local_policy
sequence 1
match
address Loopback2_allow
!
action accept
!
!
default-action reject
!
lists
prefix-list Loopback2_allow
ip-prefix 192.168.50.2/32
!
!
!
```

2.使用CLI插件模板。

确保创建CLI加载项模板以映射之前在OMP下创建的路由映射，因为没有在OMP功能模板下映射的选项。

[Feature Template](#) > [Cli Add-On Template](#) > C1111X-8P_CLI

Device Type	C1111X-8P
Template Name	<input type="text" value="C1111X-8P_CLI"/>
Description	<input type="text" value="C1111X-8P_CLI"/>

CLI add-on template is supported with IOS XE 17.2.1 version onward, please

CLI CONFIGURATION

```
1 sdwan omp address-family ipv4 vrf 1
2 advertise connected route-map Loopback2_allow_local_policy
```

将创建的本地化策略和CLI附加模板附加到设备模板。

Basic Information Transport & Management VPN Service VPN Cellular Additional Templates Switchport

Additional Templates

AppQoE	<input type="text" value="Choose..."/>
Global Template *	<input type="text" value="C1111X-8P_Global"/> ⓘ
Cisco Banner	<input type="text" value="Choose..."/>
Cisco SNMP	<input type="text" value="Choose..."/>
TrustSec	<input type="text" value="Choose..."/>
CLI Add-On Template	<input type="text" value="C1111X-8P_CLI"/>
Policy	<input type="text" value="route_map"/>
Probes	<input type="text" value="Choose..."/>
Security Policy	<input type="text" value="Choose..."/>

CLI插件模板

1.在本使用案例中，您要重分发OSPF内部路由，而不是OSPF外部路由。默认情况下，OSPF内部路由重分发到OMP，此用例有助于过滤特定的OSPF前缀。

要仅限制重分发到OMP的VRF 1上的OSPF内部路由，请将其设置为route-map，并定义与类型OSPF internal匹配的路由映射。路由映射配置通过CLI插件模板完成。

[Feature Template](#) > [Cli Add-On Template](#) > ASR1001-X_CLI_Allow_internal

Device Type	ASR1001-X
Template Name	<input type="text" value="ASR1001-X_CLI_Allow_internal"/>
Description	<input type="text" value="ASR1001-X_CLI_Allow_internal"/>

CLI add-on template is supported with IOS XE 17.2.1 version onward,

CLI CONFIGURATION

```
1 route-map internal_allow permit 10
2 match route-type internal
3 !
4 sdwan omp
5 address-family ipv4 vrf 1
6 advertise ospf route-map internal_allow external|
```

将CLI附加模板附加到设备模板。

Additional Templates

AppQoE	Choose...
Global Template *	ASR1001-X_Global ⓘ
Cisco Banner	Choose...
Cisco SNMP	Choose...
TrustSec	Choose...
CLI Add-On Template	ASR1001-X_CLI_Allow_internal
Policy	Choose...
Probes	Choose...
Security Policy	Choose...

2. 在本使用案例中，您要重分发OSPF外部路由而不是OSPF内部路由。默认情况下，OSPF外部路由不会重分发到OMP，此用例有助于过滤特定的OSPF前缀。

要仅限制重分发到OMP的VRF 1上的OSPF外部路由，请将其置于路由映射下，并定义与类型OSPF external匹配的路由映射。路由映射配置通过CLI插件模板完成。

Device Type ASR1001-X

Template Name ASR1001-X_CLI-Allow_external

Description ASR1001-X_CLI-Allow_external

CLI add-on template is supported with IOS XE 17.2.1 version onward,

CLI CONFIGURATION

```
1 route-map external_allow permit 10
2 match route-type external
3 !
4 sdwan omp
5 address-family ipv4 vrf 1
6 advertise ospf route-map external_allow external
```

将CLI附加模板附加到设备模板。

Additional Templates

AppQoE	Choose...
Global Template *	ASR1001-X_Global i
Cisco Banner	Choose...
Cisco SNMP	Choose...
TrustSec	Choose...
CLI Add-On Template	ASR1001-X_CLI_Allow_external
Policy	Choose...
Probes	Choose...
Security Policy	Choose...

集中控制策略

1. 在本使用案例中，您希望在站点ID为10和100的两个目标站点上不接收特定路由192.168.50.2/32。

在“集中策略”(Centralized Policy)的自定义选项下创建站点列表：需要站点列表来了解不得接收哪些站点路由。

Centralized Policy > Define Lists Custom Options

Select a list type on the left and start creating your groups of interest

- Application
- Color
- Community
- Data Prefix
- Policer
- Prefix
- Site
- App Probe Class
- SLA Class
- TLOC
- VPN

+ New Site List

Name	Entries	Reference Count	Updated By	Last Updated	Action
BRANCH	5, 10, 15, 20, 30, 35	2	admin	07 May 2023 2:51:18 PM CDT	Edit Delete
HUB_DC_Site_50	50	2	admin	07 May 2023 2:49:52 PM CDT	Edit Delete
HUB_DC_Site_40	40	0	admin	07 May 2023 2:50:04 PM CDT	Edit Delete
test_route_map	100	2	admin	14 Jul 2023 2:17:15 PM CDT	Edit Delete
Branch_Block_Traffic	10, 100	1	admin	15 Jul 2023 4:57:49 PM CDT	Edit Delete

在Centralized policy (集中策略) 的自定义选项下创建新的前缀列表：需要前缀才能知道不需要接收哪些路由。

Centralized Policy > Define Lists Custom Options

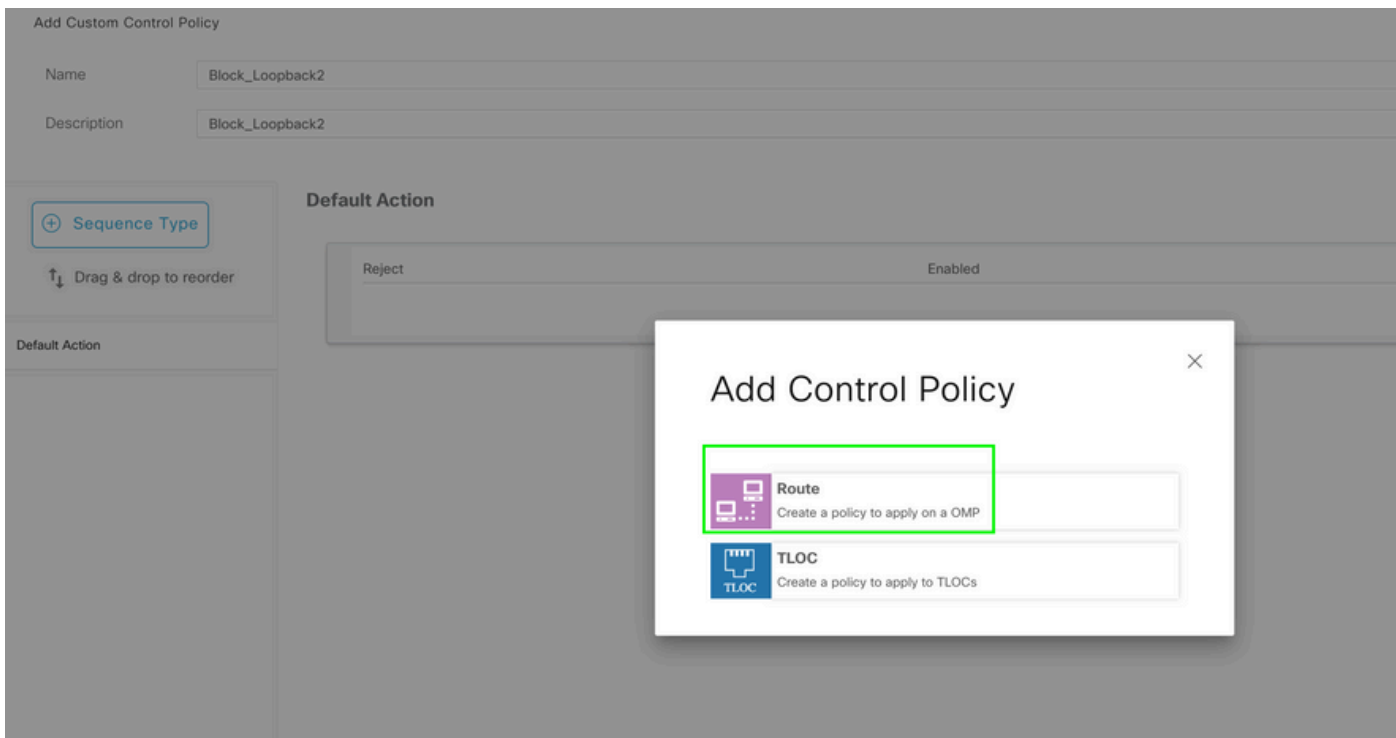
Select a list type on the left and start creating your groups of interest

- Application
- Color
- Community
- Data Prefix
- Policer
- Prefix
- Site
- App Probe Class
- SLA Class
- TLOC
- VPN

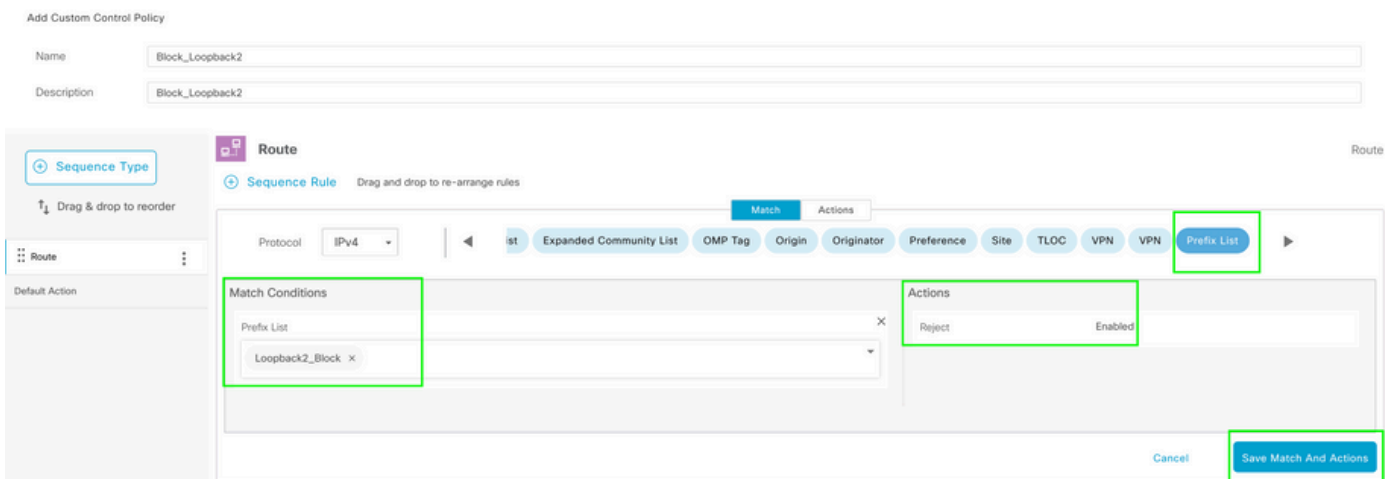
+ New Prefix List

Name	Entries	Internet Protocol	Reference Count	Updated By	Last Updated	Action
Loopback2_allow	192.168.50.2/32	IPv4	2	admin	12 Jul 2023 11:48:57 AM CDT	Edit Delete
Loopback2_Block	192.168.50.2/32	IPv4	1	admin	15 Jul 2023 4:58:14 PM CDT	Edit Delete

在集中式策略的自定义选项下创建具有自定义控制(Route & TLOC)的拓扑。



创建路由策略并将其应用于集中策略：匹配之前创建的前缀，并将操作设置为Reject。



默认操作必须为Accept，因为不应只接收一个路由。

Add Custom Control Policy

Name: Block_Loopback2

Description: Block_Loopback2

Sequence Type

↑↓ Drag & drop to reorder

⋮ Route

Default Action

Default Action

Accept Enabled

需要对给定目标站点将此策略应用于出站，因为此方向来自vSmart视角。

Centralized Policy > Add Policy

Create Groups of Interest
 Configure Topology and VPN Membership
 Configure Traffic Rules
 Apply Policies to Sites and VPNs

Add policies to sites and VPNs

Policy Name: Block_Loopback2_Branch_Sites

Policy Description: Block_Loopback2_Branch_Sites

Topology Application-Aware Routing Traffic Data Cflowd

Block_Loopback2 CUSTOM CONTROL

[New Site List](#)

Direction	Site List	Action
out	Branch_Block_Traffic	Edit Delete

预览：这是创建集中策略后配置的外观。

Centralized Policy > Edit Policy

Config Preview

Config Diff

```
viptela-policy:policy
control-policy Block_Loopback2
  sequence 1
  match route
    prefix-list Loopback2_Block
  !
  action reject
  !
  !
default-action accept
!
lists
prefix-list Loopback2_Block
  ip-prefix 192.168.50.2/32
!
site-list Branch_Block_Traffic
  site-id 10
  site-id 100
!
!
!
apply-policy
  site-list Branch_Block_Traffic
  control-policy Block_Loopback2 out
!
```

Generating output, this might take time, please wait ...

Code:

- C -> chosen
- I -> installed
- Red -> redistributed
- Rej -> rejected
- L -> looped
- R -> resolved
- S -> stale
- Ext -> extranet
- Inv -> invalid
- Stg -> staged
- IA -> On-demand inactive
- U -> TLOC unresolved

VPN	PREFIX	FROM PEER	PATH		ATTRIBUTE			TLOC IP	COLOR
			ID	LABEL	STATUS	TYPE			
1	0.0.0.0/0	10.10.10.2	123	1004	C,I,R	installed	10.10.10.60	biz-i	
1	172.20.0.0/24	10.10.10.2	124	1003	C,I,R	installed	10.10.10.65	biz-i	
1	192.168.40.2/32	0.0.0.0	68	1004	C,Red,R	installed	10.10.10.40	biz-i	
1	192.168.50.2/32	0.0.0.0	68	1004	C,Red,R	installed	10.10.10.40	biz-i	

cEdge_Site40#

连接的路由位于RIB中。

cEdge_Site40#show ip route vrf 1

Routing Table: 1

- Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP
D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
E1 - OSPF external type 1, E2 - OSPF external type 2, m - OMP
n - NAT, Ni - NAT inside, No - NAT outside, Nd - NAT DIA
i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2
ia - IS-IS inter area, * - candidate default, U - per-user static route
H - NHRP, G - NHRP registered, g - NHRP registration summary
o - ODR, P - periodic downloaded static route, l - LISP
a - application route
+ - replicated route, % - next hop override, p - overrides from PfR
& - replicated local route overrides by connected

Gateway of last resort is 10.10.10.60 to network 0.0.0.0

- m* 0.0.0.0/0 [251/0] via 10.10.10.60, 20:25:46, Sdwan-system-intf
172.20.0.0/24 is subnetted, 1 subnets
- m 172.20.0.0 [251/0] via 10.10.10.65, 20:25:46, Sdwan-system-intf
192.168.40.0/32 is subnetted, 1 subnets
- C 192.168.40.2 is directly connected, Loopback1
192.168.50.0/32 is subnetted, 1 subnets
- C 192.168.50.2 is directly connected, Loopback2

cEdge_Site40#

使用show ip protocols vrf 1命令，您可以检查哪些路由在默认情况下重新分发到OMP。

```
cEdge_Site40#show ip protocols vrf 1
*** IP Routing is NSF aware ***

Routing Protocol is "omp"
  Sending updates every 0 seconds
  Invalid after 0 seconds, hold down 0, flushed after 0
  Outgoing update filter list for all interfaces is not set
  Incoming update filter list for all interfaces is not set
  Redistributing: connected, static, nat-route
                  ospf 1 (internal)
  Maximum path: 32
  Routing for Networks:
  Routing Information Sources:
    Gateway         Distance       Last Update
  Distance: (default is 251)
```

cEdge_Site40#

此处，在成功推送设备模板后，不会将192.168.40.2重分发到OMP。因为192.168.50.2仅作为本地化策略的一部分被允许。

```
cEdge_Site40#show sdwan omp routes
Generating output, this might take time, please wait ...
Code:
C -> chosen
I -> installed
Red -> redistributed
Rej -> rejected
L -> looped
R -> resolved
S -> stale
Ext -> extranet
Inv -> invalid
Stg -> staged
IA -> On-demand inactive
U -> TLOC unresolved
```

VPN	PREFIX	FROM PEER	PATH		ATTRIBUTE				COLOR
			ID	LABEL	STATUS	TYPE	TLOC IP		
1	0.0.0.0/0	10.10.10.2	123	1004	C,I,R	installed	10.10.10.60	biz-i	
1	172.20.0.0/24	10.10.10.2	124	1003	C,I,R	installed	10.10.10.65	biz-i	
1	192.168.50.2/32	0.0.0.0	68	1004	C,Red,R	installed	10.10.10.40	biz-i	

cEdge_Site40#

下一个输出捕获vrf 1路由表，192.168.40.2位于RIB中。

```
cEdge_Site40#show ip route vrf 1
Routing Table: 1
Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, m - OMP
       n - NAT, Ni - NAT inside, No - NAT outside, Nd - NAT DIA
       i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2
       ia - IS-IS inter area, * - candidate default, U - per-user static route
       H - NHRP, G - NHRP registered, g - NHRP registration summary
       o - ODR, P - periodic downloaded static route, l - LISP
       a - application route
       + - replicated route, % - next hop override, p - overrides from PfR
       & - replicated local route overrides by connected
```

Gateway of last resort is 10.10.10.60 to network 0.0.0.0

```
m* 0.0.0.0/0 [251/0] via 10.10.10.60, 00:09:43, Sdwan-system-intf
    172.20.0.0/24 is subnetted, 1 subnets
m   172.20.0.0 [251/0] via 10.10.10.65, 00:09:43, Sdwan-system-intf
    192.168.40.0/32 is subnetted, 1 subnets
C   192.168.40.2 is directly connected, Loopback1
    192.168.50.0/32 is subnetted, 1 subnets
C   192.168.50.2 is directly connected, Loopback2
```

cEdge_Site40#

CLI插件模板

根据当前配置，OSPF外部路由和内部路由都重新分发到OMP。

```
cEdge_ospf#show sdwan omp routes 192.168.60.0/24
```

Code:

```
C -> chosen
I -> installed
Red -> redistributed
Rej -> rejected
L -> looped
R -> resolved
S -> stale
Ext -> extranet
Inv -> invalid
Stg -> staged
IA -> On-demand inactive
U -> TLOC unresolved
```

VPN	PREFIX	FROM PEER	PATH	ID	LABEL	STATUS	ATTRIBUTE	TLOC IP	COLOR
-----	--------	-----------	------	----	-------	--------	-----------	---------	-------

```
-----
1      192.168.60.0/24    0.0.0.0          75      1003    C,Red,R   installed  10.10.10.100  gold
```

```
cEdge_ospf#show sdwan omp routes 172.16.16.0/24
```

```
Code:
```

```
C -> chosen
I -> installed
Red -> redistributed
Rej -> rejected
L -> looped
R -> resolved
S -> stale
Ext -> extranet
Inv -> invalid
Stg -> staged
IA -> On-demand inactive
U -> TLOC unresolved
```

VPN	PREFIX	FROM PEER	PATH		ATTRIBUTE				COLOR
			ID	LABEL	STATUS	TYPE	TLOC IP		
1	172.16.16.0/24	0.0.0.0	75	1003	C,Red,R	installed	10.10.10.100	gold	

```
cEdge_ospf#
```

下一输出捕获vrf 1 ospf路由表，OSPF外部路由和内部路由都在RIB中。

```
cEdge_ospf#show ip route vrf 1 ospf
```

```
Routing Table: 1
```

```
Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP
D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
E1 - OSPF external type 1, E2 - OSPF external type 2, m - OMP
n - NAT, Ni - NAT inside, No - NAT outside, Nd - NAT DIA
i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2
ia - IS-IS inter area, * - candidate default, U - per-user static route
H - NHRP, G - NHRP registered, g - NHRP registration summary
o - ODR, P - periodic downloaded static route, l - LISP
a - application route
+ - replicated route, % - next hop override, p - overrides from PfR
& - replicated local route overrides by connected
```

```
Gateway of last resort is 10.10.10.60 to network 0.0.0.0
```

```
172.16.0.0/24 is subnetted, 1 subnets
```

```
O E2 172.16.16.0 [110/20] via 192.168.70.3, 00:14:04, GigabitEthernet0/0/1
O IA 192.168.60.0/24 [110/2] via 192.168.70.3, 01:07:51, GigabitEthernet0/0/1
```

```
cEdge_ospf#
```

1.使用路由映射过滤以仅重分发内部路由后，OSPF外部路由不再重分发到OMP。


```
cEdge_ospf#show sdwan omp routes 172.16.16.0/24
% No such element exists.
```

```
cEdge_ospf#show sdwan omp routes 192.168.60.0/24
Code:
```

```
C -> chosen
I -> installed
Red -> redistributed
Rej -> rejected
L -> looped
R -> resolved
S -> stale
Ext -> extranet
Inv -> invalid
Stg -> staged
IA -> On-demand inactive
U -> TLOC unresolved
```

VPN	PREFIX	FROM PEER	PATH		STATUS	ATTRIBUTE		COLOR
			ID	LABEL		TYPE	TLOC IP	
1	192.168.60.0/24	0.0.0.0	75	1003	C,Red,R	installed	10.10.10.100	gold

```
cEdge_ospf
```

下一输出捕获vrf 1 ospf路由表，OSPF外部路由和内部路由都在RIB中。

```
cEdge_ospf#show ip route vrf 1 ospf
```

```
Routing Table: 1
```

```
Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP
D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
E1 - OSPF external type 1, E2 - OSPF external type 2, m - OMP
n - NAT, Ni - NAT inside, No - NAT outside, Nd - NAT DIA
i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2
ia - IS-IS inter area, * - candidate default, U - per-user static route
H - NHRP, G - NHRP registered, g - NHRP registration summary
o - ODR, P - periodic downloaded static route, l - LISP
a - application route
+ - replicated route, % - next hop override, p - overrides from PfR
& - replicated local route overrides by connected
```

```
Gateway of last resort is 10.10.10.60 to network 0.0.0.0
```

```
172.16.0.0/24 is subnetted, 1 subnets
O E2 172.16.16.0 [110/20] via 192.168.70.3, 00:09:12, GigabitEthernet0/0/1
O IA 192.168.60.0/24 [110/2] via 192.168.70.3, 01:02:59, GigabitEthernet0/0/1
```

```
cEdge_ospf#
```

2.使用路由映射过滤以仅重分发外部路由后，OSPF内部路由不再重分发到OMP。

```
cEdge_ospf#show sdwan omp routes 192.168.60.0/24
% No such element exists.
```

```
cEdge_ospf#show sdwan omp routes 172.16.16.0/24
Code:
```

```
C -> chosen
I -> installed
Red -> redistributed
Rej -> rejected
L -> looped
R -> resolved
S -> stale
Ext -> extranet
Inv -> invalid
Stg -> staged
IA -> On-demand inactive
U -> TLOC unresolved
```

VPN	PREFIX	FROM PEER	PATH		ATTRIBUTE				COLOR
			ID	LABEL	STATUS	TYPE	TLOC IP		
1	172.16.16.0/24	0.0.0.0	75	1003	C,Red,R	installed	10.10.10.100	gold	

```
cEdge_ospf#
```

下一输出捕获vrf 1 OSPF路由表，OSPF外部路由和内部路由都在RIB中。

```
cEdge_ospf#show ip route vrf 1 ospf
```

```
Routing Table: 1
```

```
Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP
D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
E1 - OSPF external type 1, E2 - OSPF external type 2, m - OMP
n - NAT, Ni - NAT inside, No - NAT outside, Nd - NAT DIA
i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2
ia - IS-IS inter area, * - candidate default, U - per-user static route
H - NHRP, G - NHRP registered, g - NHRP registration summary
o - ODR, P - periodic downloaded static route, l - LISP
a - application route
+ - replicated route, % - next hop override, p - overrides from PFR
& - replicated local route overrides by connected
```

```
Gateway of last resort is 10.10.10.60 to network 0.0.0.0
```

```
172.16.0.0/24 is subnetted, 1 subnets
O E2 172.16.16.0 [110/20] via 192.168.70.3, 00:02:16, GigabitEthernet0/0/1
O IA 192.168.60.0/24 [110/2] via 192.168.70.3, 00:56:03, GigabitEthernet0/0/1
```

```
cEdge_ospf#
```

集中控制策略

默认情况下，所有连接的路由都从站点40在OMP中重分发(重点是192.168.50.2/32)。

```
cEdge_Site40#show sdwan running-config | i site
site-id                40
```

```
cEdge_Site40#show sdwan omp routes 192.168.50.2/32
Code:
```

```
C -> chosen
I -> installed
Red -> redistributed
Rej -> rejected
L -> looped
R -> resolved
S -> stale
Ext -> extranet
Inv -> invalid
Stg -> staged
IA -> On-demand inactive
U -> TLOC unresolved
```

			PATH		ATTRIBUTE			
VPN	PREFIX	FROM PEER	ID	LABEL	STATUS	TYPE	TLOC IP	COLOR
1	192.168.50.2/32	0.0.0.0	68	1004	C,Red,R	installed	10.10.10.40	biz-i

```
cEdge_Site40#
```

站点10和站点100从OMP接收路由。

```
cEdge_Site10#show sdwan running-config | i site
site-id                10
```

```
cEdge_Site10#show sdwan omp routes 192.168.50.2/32
Code:
```

```
C -> chosen
I -> installed
Red -> redistributed
Rej -> rejected
L -> looped
R -> resolved
S -> stale
Ext -> extranet
Inv -> invalid
Stg -> staged
IA -> On-demand inactive
U -> TLOC unresolved
```

			PATH		ATTRIBUTE			
VPN	PREFIX	FROM PEER	ID	LABEL	STATUS	TYPE	TLOC IP	COLOR
1	192.168.50.2/32	10.10.10.2	32	1004	C,I,R	installed	10.10.10.40	biz-i

```
cEdge_Site10#
```

```
cEdge_ospf#show sdwan running-config | i site
site-id          100
```

```
cEdge_ospf#show sdwan omp routes 192.168.50.2/32
```

```
Code:
```

```
C -> chosen
I -> installed
Red -> redistributed
Rej -> rejected
L -> looped
R -> resolved
S -> stale
Ext -> extranet
Inv -> invalid
Stg -> staged
IA -> On-demand inactive
U -> TLOC unresolved
```

VPN	PREFIX	FROM PEER	PATH		ATTRIBUTE			
			ID	LABEL	STATUS	TYPE	TLOC IP	COLOR
1	192.168.50.2/32	10.10.10.2	73	1004	C,I,R	installed	10.10.10.40	biz-i

```
cEdge_ospf#
```

1.将集中策略推送到vSmart后，站点40仍在将192.168.50.2重分发到OMP，vSmart正在接收它。

```
cEdge_Site40#show sdwan running-config | i site
site-id          40
```

```
cEdge_Site40#show sdwan omp routes 192.168.50.2/32
```

```
Generating output, this might take time, please wait ...
```

```
Code:
```

```
C -> chosen
I -> installed
Red -> redistributed
Rej -> rejected
L -> looped
R -> resolved
S -> stale
Ext -> extranet
Inv -> invalid
Stg -> staged
IA -> On-demand inactive
U -> TLOC unresolved
```

VPN	PREFIX	FROM PEER	PATH		ATTRIBUTE			
			ID	LABEL	STATUS	TYPE	TLOC IP	COLOR
1	192.168.50.2/32	0.0.0.0	68	1004	C,Red,R	installed	10.10.10.40	biz-i

```
cEdge_Site40#
```

```

rcdn_lab_vSmart# show omp routes 192.168.50.2/32
Code:
C -> chosen
I -> installed
Red -> redistributed
Rej -> rejected
L -> looped
R -> resolved
S -> stale
Ext -> extranet
Inv -> invalid
Stg -> staged
IA -> On-demand inactive
U -> TLOC unresolved

```

VPN	PREFIX	FROM PEER	PATH		STATUS	ATTRIBUTE		COLOR
			ID	LABEL		TYPE	TLOC IP	
1	192.168.50.2/32	10.10.10.40	68	1004	C,R	installed	10.10.10.40	biz-i

```
rcdn_lab_vSmart#
```

但是，站点10和100没有接收该特定路由。

```

cEdge_Site10#show sdwan running-config | i site
site-id          10

```

```

cEdge_Site10#show sdwan omp routes 192.168.50.2/32
% No such element exists.

```

```
cEdge_Site10#
```

```

cEdge_ospf#show sdwan running-config | i site
site-id          100

```

```

cEdge_ospf#show sdwan omp routes 192.168.50.2/32
% No such element exists.

```

```
cEdge_ospf#
```

2.将集中策略推送到vSmart后，站点40仍在将192.168.50.2重分发到OMP，但vSmart拒绝它，使其无效。

```

rcdn_lab_vSmart# show omp routes 192.168.50.2/32
Code:
C -> chosen
I -> installed
Red -> redistributed

```

Rej -> rejected
 L -> looped
 R -> resolved
 S -> stale
 Ext -> extranet
 Inv -> invalid
 Stg -> staged
 IA -> On-demand inactive
 U -> TLOC unresolved

VPN	PREFIX	FROM PEER	PATH		ATTRIBUTE			COLOR
			ID	LABEL	STATUS	TYPE	TLOC IP	
1	192.168.50.2/32	10.10.10.40	68	1004	Rej,R,Inv	installed	10.10.10.40	biz-i

rcdn_lab_vSmart#

站点10和100没有接收特定路由。

```
cEdge_Site10#show sdwan running-config | i site
site-id          10
```

```
cEdge_Site10#show sdwan omp routes 192.168.50.2/32
% No such element exists.
```

cEdge_Site10#

```
cEdge_ospf#show sdwan running-config | i site
site-id          100
```

```
cEdge_ospf#show sdwan omp routes 192.168.50.2/32
% No such element exists.
```

cEdge_ospf#

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