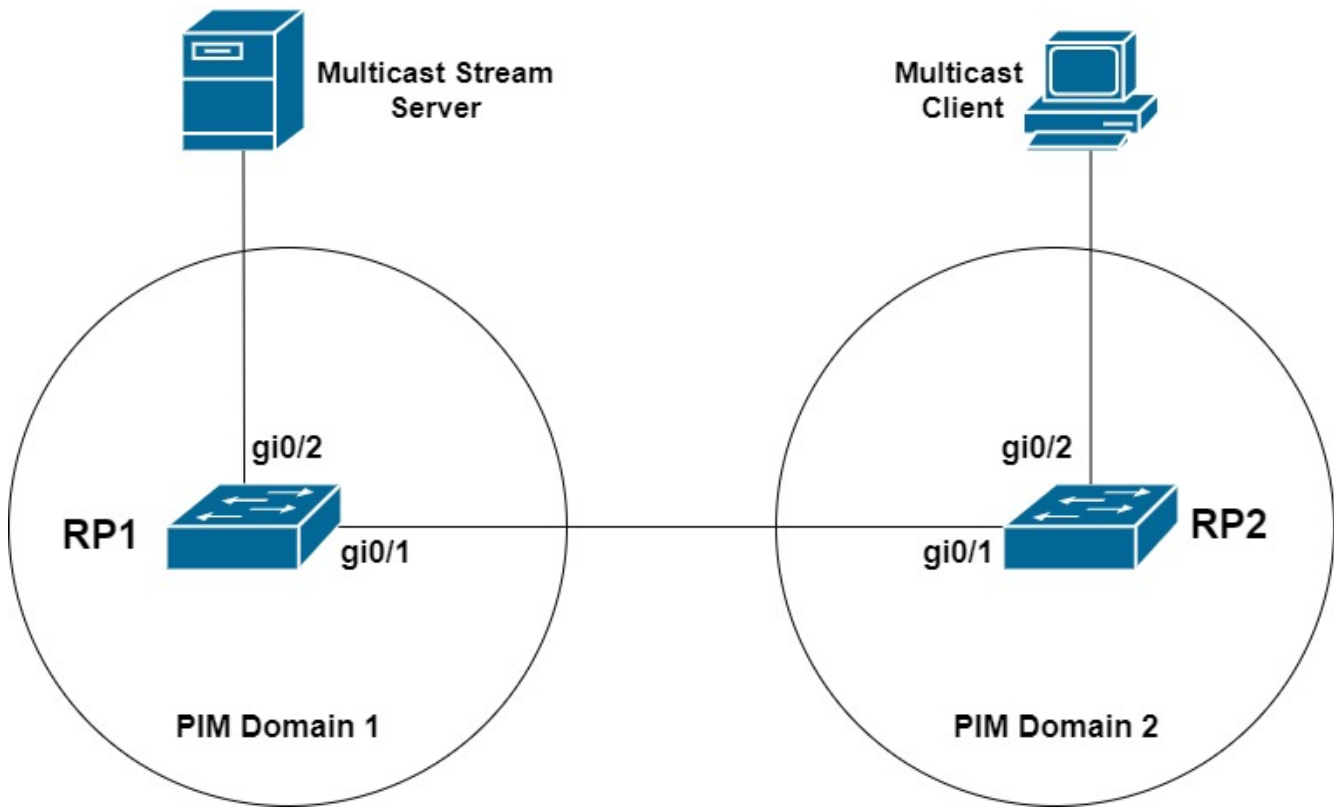


# MSDP MES23xx/33xx/35xx/5324

(MSDP) PIM- MSDP- RP .



RP1:

- IP PIM

```
console(config)# interface gi0/1
console(config-if)# ip address 1.1.1.1 255.255.255.252
console(config-if)# ip pim
console(config)# interface gi0/2
console(config-if)# ip address 10.3.30.1 255.255.255.0
console(config-if)# ip pim
```

- IP Loopback-, MSDP.

```
console(config)# interface Loopback 1
console(config-if)# ip address 2.2.2.2 255.255.255.255
```

- PIM

```
console(config)# ip multicast-routing pim
RP, RP MSDP- Loopback
console(config)# ip pim rp-address 2.2.2.2 232.0.0.0/24
```

- , Loopback- . PIM Domain 2 .

, . BGP.

```

console(config)# router bgp 1
console(router-bgp)# bgp router-id 2.2.2.2
console(router-bgp)# address-family ipv4 unicast
console(router-bgp-af)# network 2.2.2.2 mask 255.255.255.255
console(router-bgp-af)# network 10.3.30.0 mask 255.255.255.0
console(router-bgp)# neighbor 1.1.1.2
console(router-bgp-nbr)# remote-as 1

```

MSDP:

- MSDP

```
console(config)# router msdp
```

- IP-, c MSDP-

```
console(config-msdp)# connect-source 2.2.2.2
```

- IP-, RP SA

```
console(config-msdp)# originator-ip 2.2.2.2
```

- MSDP-

```
console(config-msdp)# peer 3.3.3.3
```

- IP-, c MSDP-

```
console(config-peer)# connect-source 2.2.2.2
```

RP2:

```

ip multicast-routing pim
!
hostname SW2
!
interface gigabitethernet1/0/1
 ip address 1.1.1.2 255.255.255.252
 ip pim
exit
!
interface gigabitethernet1/0/2
 ip address 10.2.0.50 255.255.255.0
 ip pim
exit
!
interface loopback 1
 ip address 3.3.3.3 255.255.255.255
exit
!
ip pim rp-address 3.3.3.3 232.0.0.0/24
!

```

```

router bgp 1
  bgp router-id 3.3.3.3
  !
  address-family ipv4 unicast
    network 3.3.3.3 mask 255.255.255.255
  exit
  !
  neighbor 1.1.1.1
    remote-as 1
  exit
exit
!
router msdp
  connect-source 3.3.3.3
  originator-ip 3.3.3.3
  peer 2.2.2.2
    connect-source 3.3.3.3
  exit
exit
!
end

```

MSDP- show ip msdp peers

```

RP2#show ip msdp peers
Keepalive timer period: 30 sec
Peer Timeout timer period: 75 sec
Source-Active timer period: 150 sec

```

```

MSDP Peer: 2.2.2.2
Connection status:
State: Established, Retries: 6
Source: 3.3.3.3
Mesh-group: 1
Uptime(Downtime): 00,02:35:19
Last state change: 00,02:35:19 ago
Last message received: 00,00:00:19 ago
SA active: 3, rpf fail: 0
TLV sent/received: 1113/1580
Keepalives: 1113/1154
SA messages: 0/426
SA request: 0/0
SA response: 0/0

```

, MSDP:

```
RP2#show ip msdp source-active
```

Group	Address	Source	Address	Peer	Address	Originator	Uptime
232.0.0.3	10.3.30.2	2.2.2.2	2.2.2.2	2.2.2.2	00,00:06:38		
232.0.0.4	10.3.30.2	2.2.2.2	2.2.2.2	2.2.2.2	00,00:06:38		
232.0.0.5	10.3.30.2	2.2.2.2	2.2.2.2	2.2.2.2	00,00:06:38		

- RP2:

```
SW2#show ip mroute
IP Multicast Routing Table
```

```

Flags: D - Dense, S - Sparse, X - IGMP Proxy, s - SSM Group,
C - Connected, L - Local, R - RP-bit set, F - Register flag,
T - SPT-bit set, I - Received Source Specific Host Report
Timers: Uptime/Expires

```

```

(*, 232.0.0.3), uptime: 00:07:15, expires: never, RP 3.3.3.3, Flags: S
Incoming interface: Null, RPF neighbor 3.3.3.3
Outgoing interface list: g11/0/2

```

(10.3.30.2, 232.0.0.3), uptime: 00:07:15, expires: 00:03:15, Flags: STR  
Incoming interface: gil/0/1, RPF neighbor 1.1.1.1  
Outgoing interface list: gil/0/2

SA Filter. in/out SA MSDP-

- SA-

```
console(config-peer)# sa-filter { in | out } <sec_num> { permit | deny } [ rp-address <ip_addr_rp> | group-address <ip_addr_gr> | source-address <ip_addr_src> ]
```

```
- permit -  
- deny -  
- sec_num -  
- ip_addr_rp - RP  
- ip_addr_gr -  
- ip_addr_src -
```

, SA 232.0.0.1

```
console(config-peer)# sa-filter in 1 deny group-address 232.0.0.1
```

MESH-

-SA, MESH- MESH-

-SA, MESH- .

SA RPF.

, , MESH- RPF SA-

MESH-:

```
console(config-peer)# mesh-group <name>
```

MSDP:

show ip msdp peers

show ip msdp source-active

show ip msdp summary

clear ip msdp counters

clear ip msdp peers