

bgp\_mvpn46\_ibgp\_init.pcapng

BGP OPEN

Frame 1 | 2020-07-31T20:21:35.667354Z

ID My AS	100
Hold Time	180
ID BGP Identifier	10.0.0.2
Capability	Multiprotocol extensions capability
AFI	IPv6 (2)
SAFI	MCAST-VPN (5)
Capability	Multiprotocol extensions capability
AFI	IPv4 (1)
SAFI	MCAST-VPN (5)
Capability	Multiprotocol extensions capability
AFI	IPv6 (2)
SAFI	Labeled VPN Unicast (128)
Capability	Multiprotocol extensions capability
AFI	IPv4 (1)
SAFI	Labeled VPN Unicast (128)...
	4 more

BGP OPEN

Frame 2 | 2020-07-31T20:21:35.668449Z

ID My AS	100
Hold Time	180
ID BGP Identifier	10.0.0.3
Capability	Multiprotocol extensions capability
AFI	IPv6 (2)
SAFI	MCAST-VPN (5)
Capability	Multiprotocol extensions capability
AFI	IPv4 (1)
SAFI	MCAST-VPN (5)
Capability	Multiprotocol extensions capability
AFI	IPv6 (2)
SAFI	Labeled VPN Unicast (128)
Capability	Multiprotocol extensions capability
AFI	IPv4 (1)
SAFI	Labeled VPN Unicast (128)...
	4 more

BGP KEEPALIVE

Frame 3 | 2020-07-31T20:21:35.668476Z

BGP KEEPALIVE

Frame 4 | 2020-07-31T20:21:35.669103Z

BGP ROUTE-REFRESH

Frame 5 | 2020-07-31T20:21:35.672088Z

BGP ROUTE-REFRESH

BGP ROUTE-REFRESH

BGP ROUTE-REFRESH

BGP KEEPALIVE

Frame 6 | 2020-07-31T20:21:35.680311Z

BGP UPDATE

Frame 7 | 2020-07-31T20:21:35.680365Z

✓ MP_REACH_NLRI	
Address family identifier (AFI)	IPv6 (2)
Subsequent address family identifier (SAFI)	MCAST-VPN (5)
Next hop	0a000002
Path Attribute - ORIGIN	INCOMPLETE
AS_PATH	empty
Path Attribute - MULTI_EXIT_DISC	0
★ LOCAL_PREF	100
Path Attribute - COMMUNITIES	NO_EXPORT
EXTENDED_COMMUNITIES	
Route Target	100:1 [Transitive 2-Octet AS-Specific]
Path Attribute - PMSI_TUNNEL_ATTRIBUTE	

BGP UPDATE

⊘ MP_UNREACH_NLRI (Withdraw)	
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R2 (RR Client)

R3 (Route Reflector)

Address family identifier (AFI)	IPv6 (2)
Subsequent address family identifier (SAFI)	MCAST-VPN (5)

BGP UPDATE

Frame 8 |  
2020-07-31T20:21:35.680373Z

✓ MP_REACH_NLRI	
Address family identifier (AFI)	IPv4 (1)
Subsequent address family identifier (SAFI)	MCAST-VPN (5)
Next hop	10.0.0.2
Path Attribute - ORIGIN	INCOMPLETE
AS_PATH	empty
Path Attribute - MULTI_EXIT_DISC	0
★ LOCAL_PREF	100
Path Attribute - COMMUNITIES	NO_EXPORT
EXTENDED_COMMUNITIES	
Route Target	100:1 [Transitive 2-Octet AS-Specific]
Path Attribute - PMSI_TUNNEL_ATTRIBUTE	

BGP UPDATE

⊘ MP_UNREACH_NLRI (Withdraw)	
Address family identifier (AFI)	IPv4 (1)
Subsequent address family identifier (SAFI)	MCAST-VPN (5)

BGP UPDATE

Frame 9 |  
2020-07-31T20:21:35.680379Z

✓ MP_REACH_NLRI	
Address family identifier (AFI)	IPv6 (2)
Subsequent address family identifier (SAFI)	Labeled VPN Unicast (128)
Next hop	RD=0:0 IPv6=::ffff:10.0.0.2
Path Attribute - ORIGIN	IGP
AS_PATH	1
Path Attribute - MULTI_EXIT_DISC	0
★ LOCAL_PREF	100
EXTENDED_COMMUNITIES	
Route Target	100:1 [Transitive 2-Octet AS-Specific]
Source AS	100:0 [Transitive 2-Octet AS-Specific]
VRF Route Import	10.0.0.2:1 [Transitive IPv4-Address-Specific]
Path Attribute - Connector Attribute	

BGP UPDATE

⊘ MP_UNREACH_NLRI (Withdraw)	
Address family identifier (AFI)	IPv6 (2)
Subsequent address family identifier (SAFI)	Labeled VPN Unicast (128)

BGP UPDATE

Frame 10 |  
2020-07-31T20:21:35.680385Z

✓ MP_REACH_NLRI	
Address family identifier (AFI)	IPv4 (1)
Subsequent address family identifier (SAFI)	Labeled VPN Unicast (128)
Next hop	RD=0:0 IPv4=10.0.0.2
Path Attribute - ORIGIN	IGP
AS_PATH	1
Path Attribute - MULTI_EXIT_DISC	0
★ LOCAL_PREF	100
EXTENDED_COMMUNITIES	
Route Target	100:1 [Transitive 2-Octet AS-Specific]
Path Attribute - Connector Attribute	

BGP UPDATE

⊘ MP_UNREACH_NLRI (Withdraw)	
Address family identifier (AFI)	IPv4 (1)
Subsequent address family identifier (SAFI)	Labeled VPN Unicast (128)

BGP UPDATE

Frame 11 |  
2020-07-31T20:21:35.681762Z

✓ MP_REACH_NLRI	
Address family identifier (AFI)	IPv6 (2)
Subsequent address family identifier (SAFI)	MCAST-VPN (5)
Next hop	0a000004
Path Attribute - ORIGIN	INCOMPLETE
AS_PATH	empty

R2 (RR Client)

R3 (Route Reflector)

Path Attribute - MULTI_EXIT_DISC	0
★ LOCAL_PREF	100
Path Attribute - COMMUNITIES	NO_EXPORT
EXTENDED_COMMUNITIES	
Route Target	100:1 [Transitive 2-Octet AS-Specific]
Path Attribute - CLUSTER_LIST	10.0.0.3
Path Attribute - ORIGINATOR_ID	10.0.0.4
Path Attribute - PMSI_TUNNEL_ATTRIBUTE	

BGP UPDATE

✓ MP_REACH_NLRI	
Address family identifier (AFI)	IPv6 (2)
Subsequent address family identifier (SAFI)	MCAST-VPN (5)
Next hop	0a000005
Path Attribute - ORIGIN	INCOMPLETE
AS_PATH	empty
Path Attribute - MULTI_EXIT_DISC	0
★ LOCAL_PREF	100
Path Attribute - COMMUNITIES	NO_EXPORT
EXTENDED_COMMUNITIES	
Route Target	100:1 [Transitive 2-Octet AS-Specific]
Path Attribute - CLUSTER_LIST	10.0.0.3
Path Attribute - ORIGINATOR_ID	10.0.0.5
Path Attribute - PMSI_TUNNEL_ATTRIBUTE	

BGP UPDATE

MP_UNREACH_NLRI (Withdraw)	
Address family identifier (AFI)	IPv6 (2)
Subsequent address family identifier (SAFI)	MCAST-VPN (5)

BGP UPDATE

✓ MP_REACH_NLRI	
Address family identifier (AFI)	IPv4 (1)
Subsequent address family identifier (SAFI)	MCAST-VPN (5)
Next hop	10.0.0.4
Path Attribute - ORIGIN	INCOMPLETE
AS_PATH	empty
Path Attribute - MULTI_EXIT_DISC	0
★ LOCAL_PREF	100
Path Attribute - COMMUNITIES	NO_EXPORT
EXTENDED_COMMUNITIES	
Route Target	100:1 [Transitive 2-Octet AS-Specific]
Path Attribute - CLUSTER_LIST	10.0.0.3
Path Attribute - ORIGINATOR_ID	10.0.0.4
Path Attribute - PMSI_TUNNEL_ATTRIBUTE	

BGP UPDATE

✓ MP_REACH_NLRI	
Address family identifier (AFI)	IPv4 (1)
Subsequent address family identifier (SAFI)	MCAST-VPN (5)
Next hop	10.0.0.5
Path Attribute - ORIGIN	INCOMPLETE
AS_PATH	empty
Path Attribute - MULTI_EXIT_DISC	0
★ LOCAL_PREF	100
Path Attribute - COMMUNITIES	NO_EXPORT
EXTENDED_COMMUNITIES	
Route Target	100:1 [Transitive 2-Octet AS-Specific]
Path Attribute - CLUSTER_LIST	10.0.0.3
Path Attribute - ORIGINATOR_ID	10.0.0.5
Path Attribute - PMSI_TUNNEL_ATTRIBUTE	

BGP UPDATE

MP_UNREACH_NLRI (Withdraw)	
Address family identifier (AFI)	IPv4 (1)
Subsequent address family identifier (SAFI)	MCAST-VPN (5)

Frame 12 |  
2020-07-31T20:21:35.681786Z

R2 (RR Client)

R3 (Route Reflector)

BGP UPDATE

✓ MP_REACH_NLRI	
Address family identifier (AFI)	IPv6 (2)
Subsequent address family identifier (SAFI)	Labeled VPN Unicast (128)
Next hop	RD=0:0 IPv6=::ffff:10.0.0.4
Path Attribute - ORIGIN	IGP
AS_PATH	6
Path Attribute - MULTI_EXIT_DISC	0
★ LOCAL_PREF	100
EXTENDED_COMMUNITIES	
Route Target	100:1 [Transitive 2-Octet AS-Specific]
Source AS	100:0 [Transitive 2-Octet AS-Specific]
VRF Route Import	10.0.0.4:1 [Transitive IPv4-Address-Specific]
Path Attribute - CLUSTER_LIST	10.0.0.3
Path Attribute - ORIGINATOR_ID	10.0.0.4
Path Attribute - Connector Attribute	

Frame 13 |  
2020-07-31T20:21:35.681791Z

BGP UPDATE

⊘ MP_UNREACH_NLRI (Withdraw)	
Address family identifier (AFI)	IPv6 (2)
Subsequent address family identifier (SAFI)	Labeled VPN Unicast (128)

BGP UPDATE

✓ MP_REACH_NLRI	
Address family identifier (AFI)	IPv4 (1)
Subsequent address family identifier (SAFI)	Labeled VPN Unicast (128)
Next hop	RD=0:0 IPv4=10.0.0.5
Path Attribute - ORIGIN	IGP
AS_PATH	7
Path Attribute - MULTI_EXIT_DISC	0
★ LOCAL_PREF	100
EXTENDED_COMMUNITIES	
Route Target	100:1 [Transitive 2-Octet AS-Specific]
Source AS	100:0 [Transitive 2-Octet AS-Specific]
VRF Route Import	10.0.0.5:1 [Transitive IPv4-Address-Specific]
Path Attribute - CLUSTER_LIST	10.0.0.3
Path Attribute - ORIGINATOR_ID	10.0.0.5
Path Attribute - Connector Attribute	

Frame 14 |  
2020-07-31T20:21:35.681795Z

BGP UPDATE

✓ MP_REACH_NLRI	
Address family identifier (AFI)	IPv4 (1)
Subsequent address family identifier (SAFI)	Labeled VPN Unicast (128)
Next hop	RD=0:0 IPv4=10.0.0.4
Path Attribute - ORIGIN	IGP
AS_PATH	6
Path Attribute - MULTI_EXIT_DISC	0
★ LOCAL_PREF	100
EXTENDED_COMMUNITIES	
Route Target	100:1 [Transitive 2-Octet AS-Specific]
Source AS	100:0 [Transitive 2-Octet AS-Specific]
VRF Route Import	10.0.0.4:1 [Transitive IPv4-Address-Specific]
Path Attribute - CLUSTER_LIST	10.0.0.3
Path Attribute - ORIGINATOR_ID	10.0.0.4
Path Attribute - Connector Attribute	

BGP UPDATE

⊘ MP_UNREACH_NLRI (Withdraw)	
Address family identifier (AFI)	IPv4 (1)
Subsequent address family identifier (SAFI)	Labeled VPN Unicast (128)

BGP KEEPALIVE

BGP UPDATE

✓ MP_REACH_NLRI	
Address family identifier (AFI)	IPv6 (2)

Frame 15 |  
2020-07-31T20:21:35.682323Z

Frame 16 |  
2020-07-31T20:21:35.682361Z

**R2 (RR Client)**

**R3 (Route Reflector)**

Subsequent address family identifier (SAFI)	MCAST-VPN (5)
Next hop	0a000002
Path Attribute - ORIGIN	INCOMPLETE
AS_PATH	empty
Path Attribute - MULTI_EXIT_DISC	0
LOCAL_PREF	100
Path Attribute - COMMUNITIES	NO_EXPORT
EXTENDED_COMMUNITIES	
Route Target	100:1 [Transitive 2-Octet AS-Specific]
Path Attribute - CLUSTER_LIST	10.0.0.3
Path Attribute - ORIGINATOR_ID	10.0.0.2
Path Attribute - PMSI_TUNNEL_ATTRIBUTE	

**BGP UPDATE**

<input checked="" type="checkbox"/> MP_REACH_NLRI	
Address family identifier (AFI)	IPv4 (1)
Subsequent address family identifier (SAFI)	MCAST-VPN (5)
Next hop	10.0.0.2
Path Attribute - ORIGIN	INCOMPLETE
AS_PATH	empty
Path Attribute - MULTI_EXIT_DISC	0
LOCAL_PREF	100
Path Attribute - COMMUNITIES	NO_EXPORT
EXTENDED_COMMUNITIES	
Route Target	100:1 [Transitive 2-Octet AS-Specific]
Path Attribute - CLUSTER_LIST	10.0.0.3
Path Attribute - ORIGINATOR_ID	10.0.0.2
Path Attribute - PMSI_TUNNEL_ATTRIBUTE	

**BGP UPDATE**

<input checked="" type="checkbox"/> MP_REACH_NLRI	
Address family identifier (AFI)	IPv6 (2)
Subsequent address family identifier (SAFI)	Labeled VPN Unicast (128)
Next hop	RD=0:0 IPv6=::ffff:10.0.0.2
Path Attribute - ORIGIN	IGP
AS_PATH	1
Path Attribute - MULTI_EXIT_DISC	0
LOCAL_PREF	100
EXTENDED_COMMUNITIES	
Route Target	100:1 [Transitive 2-Octet AS-Specific]
Source AS	100:0 [Transitive 2-Octet AS-Specific]
VRF Route Import	10.0.0.2:1 [Transitive IPv4-Address-Specific]
Path Attribute - CLUSTER_LIST	10.0.0.3
Path Attribute - ORIGINATOR_ID	10.0.0.2
Path Attribute - Connector Attribute	

**BGP UPDATE**

<input checked="" type="checkbox"/> MP_REACH_NLRI	
Address family identifier (AFI)	IPv4 (1)
Subsequent address family identifier (SAFI)	Labeled VPN Unicast (128)
Next hop	RD=0:0 IPv4=10.0.0.2
Path Attribute - ORIGIN	IGP
AS_PATH	1
Path Attribute - MULTI_EXIT_DISC	0
LOCAL_PREF	100
EXTENDED_COMMUNITIES	
Route Target	100:1 [Transitive 2-Octet AS-Specific]
Path Attribute - CLUSTER_LIST	10.0.0.3
Path Attribute - ORIGINATOR_ID	10.0.0.2
Path Attribute - Connector Attribute	

**BGP KEEPALIVE**

**BGP KEEPALIVE**

Frame 17 |  
2020-07-31T20:21:35.682368Z

Frame 18 |  
2020-07-31T20:21:35.683187Z

Frame 19 |  
2020-07-31T20:21:35.683203Z

Frame 20 |  
2020-07-31T20:22:28.907193Z

Frame 21 |  
2020-07-31T20:22:34.150382Z