

bgp\_linkstate\_ibgp.pcapng

BGP OPEN

Frame 1 |  
2020-08-02T19:12:27.685172Z

ID My AS	100
Hold Time	180
ID BGP Identifier	10.0.0.1
Capability	Multiprotocol extensions capability
AFI	BGP-LS (16388)
SAFI	BGP-LS (71)
Capability	Route Refresh Capability (Cisco)
Capability	Route refresh capability
Capability	Enhanced route refresh capability
Capability	Support for 4-octet AS number capability

BGP OPEN

Frame 2 |  
2020-08-02T19:12:27.690378Z

ID My AS	100
Hold Time	180
ID BGP Identifier	10.0.0.2
Capability	Multiprotocol extensions capability
AFI	BGP-LS (16388)
SAFI	BGP-LS (71)
Capability	Route Refresh Capability (Cisco)
Capability	Route refresh capability
Capability	Enhanced route refresh capability
Capability	Support for 4-octet AS number capability

BGP KEEPALIVE

Frame 3 |  
2020-08-02T19:12:27.691823Z

BGP KEEPALIVE

Frame 4 |  
2020-08-02T19:12:27.696838Z

BGP KEEPALIVE

Frame 5 |  
2020-08-02T19:12:27.700921Z


BGP UPDATE


Frame 6 |  
2020-08-02T19:12:27.702038Z


<input checked="" type="checkbox"/> MP_REACH_NLRI	
Address family identifier (AFI)	BGP-LS (16388)
Subsequent address family identifier (SAFI)	BGP-LS (71)
Next hop	10.0.0.1
NLRI Type	Link NLRI (2)
Protocol ID	OSPFv2 (3)
IGP ID	0a000001
IGP ID	0a000002
IPv4 Interface Address	10.1.2.1
IPv4 Neighbor Address	10.1.2.2
Path Attribute - ORIGIN	IGP
AS_PATH	empty
Path Attribute - MULTI_EXIT_DISC	0
LOCAL_PREF	100
Path Attribute - BGP-LS Attribute...	
	1 more


BGP UPDATE


<input checked="" type="checkbox"/> MP_REACH_NLRI	
Address family identifier (AFI)	BGP-LS (16388)
Subsequent address family identifier (SAFI)	BGP-LS (71)
Next hop	10.0.0.1
NLRI Type	IPv4 Topology Prefix NLRI (3)
Protocol ID	OSPFv2 (3)
IGP ID	0a000002
Reachability prefix	10.0.0.2
Path Attribute - ORIGIN	IGP
AS_PATH	empty
Path Attribute - MULTI_EXIT_DISC	0
LOCAL_PREF	100
Path Attribute - BGP-LS Attribute	
SID/Index	2


 BGP UPDATE


<input checked="" type="checkbox"/> MP_REACH_NLRI	
Address family identifier (AFI)	BGP-LS (16388)
Subsequent address family identifier (SAFI)	BGP-LS (71)
Next hop	10.0.0.1
NLRI Type	IPv4 Topology Prefix NLRI (3)
Protocol ID	OSPFv2 (3)
IGP ID	0a000001
Reachability prefix	10.0.0.1
Path Attribute - ORIGIN	IGP
 AS_PATH	empty
Path Attribute - MULTI_EXIT_DISC	0
★ LOCAL_PREF	100
Path Attribute - BGP-LS Attribute	
SID/Index	1


 BGP UPDATE


<input checked="" type="checkbox"/> MP_REACH_NLRI	
Address family identifier (AFI)	BGP-LS (16388)
Subsequent address family identifier (SAFI)	BGP-LS (71)
Next hop	10.0.0.1
NLRI Type	Link NLRI (2)
Protocol ID	OSPFv2 (3)
IGP ID	0a000001
IGP ID	0a0000020a0b1602
IPv4 Interface Address	10.11.22.1
IPv4 Neighbor Address	10.11.22.2
Path Attribute - ORIGIN	IGP
 AS_PATH	empty
Path Attribute - MULTI_EXIT_DISC	0
★ LOCAL_PREF	100
Path Attribute - BGP-LS Attribute...	
	1 more

 BGP UPDATE

<input checked="" type="checkbox"/> MP_REACH_NLRI	
Address family identifier (AFI)	BGP-LS (16388)
Subsequent address family identifier (SAFI)	BGP-LS (71)
Next hop	10.0.0.1
NLRI Type	IPv4 Topology Prefix NLRI (3)
Protocol ID	OSPFv2 (3)
IGP ID	0a000001
Reachability prefix	10.1.2.0
Path Attribute - ORIGIN	IGP
 AS_PATH	empty
Path Attribute - MULTI_EXIT_DISC	0
★ LOCAL_PREF	100
Path Attribute - BGP-LS Attribute	

 BGP UPDATE

<input checked="" type="checkbox"/> MP_REACH_NLRI	
Address family identifier (AFI)	BGP-LS (16388)
Subsequent address family identifier (SAFI)	BGP-LS (71)
Next hop	10.0.0.1
NLRI Type	IPv4 Topology Prefix NLRI (3)
Protocol ID	OSPFv2 (3)
IGP ID	0a000002
Reachability prefix	10.1.2.0
Path Attribute - ORIGIN	IGP
 AS_PATH	empty
Path Attribute - MULTI_EXIT_DISC	0
★ LOCAL_PREF	100
Path Attribute - BGP-LS Attribute	

 BGP UPDATE

<input checked="" type="checkbox"/> MP_REACH_NLRI	
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R1

R2 (RR Client)

Address family identifier (AFI)	BGP-LS (16388)
Subsequent address family identifier (SAFI)	BGP-LS (71)
Next hop	10.0.0.1
NLRI Type	Link NLRI (2)
Protocol ID	OSPFv2 (3)
IGP ID	0a000002
IGP ID	0a000001
IPv4 Interface Address	10.1.2.2
IPv4 Neighbor Address	10.1.2.1
Path Attribute - ORIGIN	IGP
AS_PATH	empty
Path Attribute - MULTI_EXIT_DISC	0
★ LOCAL_PREF	100
Path Attribute - BGP-LS Attribute...	
	1 more

BGP UPDATE

<input checked="" type="checkbox"/> MP_REACH_NLRI	
Address family identifier (AFI)	BGP-LS (16388)
Subsequent address family identifier (SAFI)	BGP-LS (71)
Next hop	10.0.0.1
NLRI Type	Link NLRI (2)
Protocol ID	OSPFv2 (3)
IGP ID	0a000002
IGP ID	0a0000020a0b1602
IPv4 Interface Address	10.11.22.2
IPv4 Neighbor Address	10.11.22.2
Path Attribute - ORIGIN	IGP
AS_PATH	empty
Path Attribute - MULTI_EXIT_DISC	0
★ LOCAL_PREF	100
Path Attribute - BGP-LS Attribute	

BGP UPDATE

<input checked="" type="checkbox"/> MP_REACH_NLRI	
Address family identifier (AFI)	BGP-LS (16388)
Subsequent address family identifier (SAFI)	BGP-LS (71)
Next hop	10.0.0.1
NLRI Type	Link NLRI (2)
Protocol ID	OSPFv2 (3)
IGP ID	0a0000020a0b1602
IGP ID	0a000002
IPv4 Interface Address	10.11.22.2
IPv4 Neighbor Address	10.11.22.2
Path Attribute - ORIGIN	IGP
AS_PATH	empty
Path Attribute - MULTI_EXIT_DISC	0
★ LOCAL_PREF	100
Path Attribute - BGP-LS Attribute	

BGP UPDATE

<input checked="" type="checkbox"/> MP_REACH_NLRI	
Address family identifier (AFI)	BGP-LS (16388)
Subsequent address family identifier (SAFI)	BGP-LS (71)
Next hop	10.0.0.1
NLRI Type	Link NLRI (2)
Protocol ID	OSPFv2 (3)
IGP ID	0a0000020a0b1602
IGP ID	0a000001
IPv4 Interface Address	10.11.22.2
IPv4 Neighbor Address	10.11.22.1
Path Attribute - ORIGIN	IGP
AS_PATH	empty
Path Attribute - MULTI_EXIT_DISC	0
★ LOCAL_PREF	100
Path Attribute - BGP-LS Attribute	

Frame 7 |  
2020-08-02T19:12:27.706936Z

Frame 8 |  
2020-08-02T19:12:27.707473Z

R1

R2 (RR Client)

BGP UPDATE

<input checked="" type="checkbox"/> MP_REACH_NLRI	
Address family identifier (AFI)	BGP-LS (16388)
Subsequent address family identifier (SAFI)	BGP-LS (71)
Next hop	10.0.0.1
NLRI Type	Node NLRI (1)
Protocol ID	OSPFv2 (3)
IGP ID	0a000002
Path Attribute - ORIGIN	IGP
AS_PATH	empty
Path Attribute - MULTI_EXIT_DISC	0
★ LOCAL_PREF	100
Path Attribute - BGP-LS Attribute	

BGP UPDATE

<input checked="" type="checkbox"/> MP_REACH_NLRI	
Address family identifier (AFI)	BGP-LS (16388)
Subsequent address family identifier (SAFI)	BGP-LS (71)
Next hop	10.0.0.1
NLRI Type	Node NLRI (1)
Protocol ID	OSPFv2 (3)
IGP ID	0a000001
Path Attribute - ORIGIN	IGP
AS_PATH	empty
Path Attribute - MULTI_EXIT_DISC	0
★ LOCAL_PREF	100
Path Attribute - BGP-LS Attribute	

BGP UPDATE

<input checked="" type="checkbox"/> MP_REACH_NLRI	
Address family identifier (AFI)	BGP-LS (16388)
Subsequent address family identifier (SAFI)	BGP-LS (71)
Next hop	10.0.0.1
NLRI Type	Node NLRI (1)
Protocol ID	OSPFv2 (3)
IGP ID	0a0000020a0b1602
Path Attribute - ORIGIN	IGP
AS_PATH	empty
Path Attribute - MULTI_EXIT_DISC	0
★ LOCAL_PREF	100

BGP UPDATE

<input type="checkbox"/> MP_UNREACH_NLRI (Withdraw)	
Address family identifier (AFI)	BGP-LS (16388)
Subsequent address family identifier (SAFI)	BGP-LS (71)

BGP KEEPALIVE

BGP UPDATE

<input type="checkbox"/> MP_UNREACH_NLRI (Withdraw)	
Address family identifier (AFI)	BGP-LS (16388)
Subsequent address family identifier (SAFI)	BGP-LS (71)

Frame 9 | 2020-08-02T19:12:28.179446Z

Frame 10 | 2020-08-02T19:12:28.180697Z