



ospfv3_v6_dr_election.pcapng

👉 OSPFv3 Hello Packet

Frame 1 |
2020-08-04T21:31:15.223901Z

ID	Source OSPF Router	10.2.2.2
🏠	Area ID	0.0.0.0 (Backbone)
	Instance ID	Base IPv6 Unicast AF (0)
	Router Priority	0
	Options	0x000013, R, E, V6
	Hello Interval [sec]	10
	Router Dead Interval [sec]	40
👑	Designated Router	0.0.0.0
👑	Backup Designated Router	0.0.0.0
👥	Active Neighbor	10.1.1.1
👥	Active Neighbor	10.3.3.3

👈 OSPFv3 Hello Packet

Frame 2 |
2020-08-04T21:31:15.255256Z

ID	Source OSPF Router	10.3.3.3
🏠	Area ID	0.0.0.0 (Backbone)
	Instance ID	Base IPv6 Unicast AF (0)
	Router Priority	33
	Options	0x000013, R, E, V6
	Hello Interval [sec]	10
	Router Dead Interval [sec]	40
👑	Designated Router	0.0.0.0
👑	Backup Designated Router	0.0.0.0
👥	Active Neighbor	10.1.1.1
👥	Active Neighbor	10.2.2.2

👈 OSPFv3 Hello Packet

Frame 3 |
2020-08-04T21:31:15.687182Z

ID	Source OSPF Router	10.1.1.1
🏠	Area ID	0.0.0.0 (Backbone)
	Instance ID	Base IPv6 Unicast AF (0)
	Router Priority	0
	Options	0x000013, R, E, V6
	Hello Interval [sec]	10
	Router Dead Interval [sec]	40
👑	Designated Router	0.0.0.0
👑	Backup Designated Router	0.0.0.0
👥	Active Neighbor	10.2.2.2
👥	Active Neighbor	10.3.3.3

👉 OSPFv3 Hello Packet

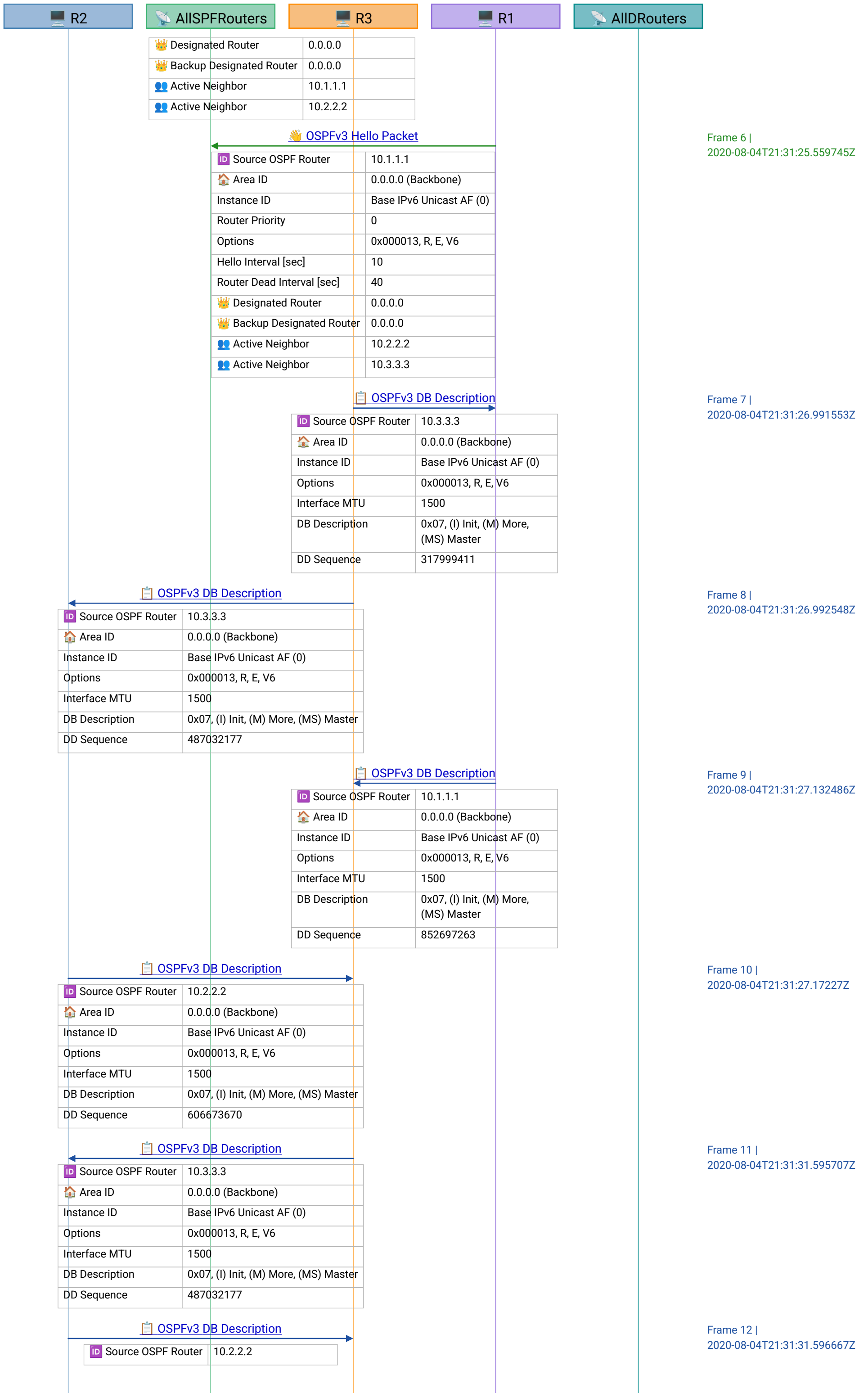
Frame 4 |
2020-08-04T21:31:24.70596Z

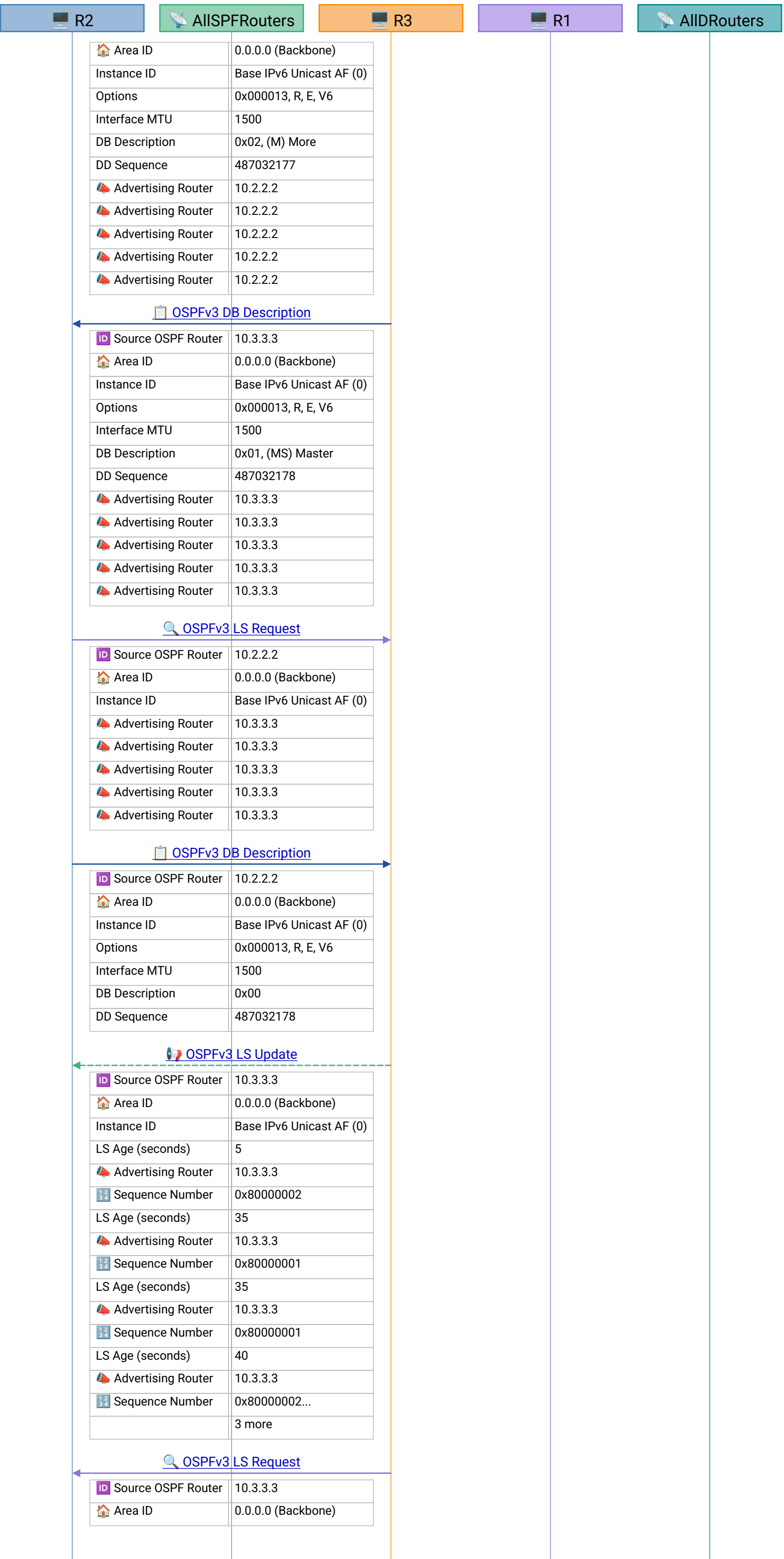
ID	Source OSPF Router	10.2.2.2
🏠	Area ID	0.0.0.0 (Backbone)
	Instance ID	Base IPv6 Unicast AF (0)
	Router Priority	0
	Options	0x000013, R, E, V6
	Hello Interval [sec]	10
	Router Dead Interval [sec]	40
👑	Designated Router	0.0.0.0
👑	Backup Designated Router	0.0.0.0
👥	Active Neighbor	10.1.1.1
👥	Active Neighbor	10.3.3.3

👈 OSPFv3 Hello Packet

Frame 5 |
2020-08-04T21:31:24.776804Z

ID	Source OSPF Router	10.3.3.3
🏠	Area ID	0.0.0.0 (Backbone)
	Instance ID	Base IPv6 Unicast AF (0)
	Router Priority	33
	Options	0x000013, R, E, V6
	Hello Interval [sec]	10
	Router Dead Interval [sec]	40





Frame 13 |
2020-08-04T21:31:31.596667Z

Frame 14 |
2020-08-04T21:31:31.597665Z

Frame 15 |
2020-08-04T21:31:31.597665Z

Frame 16 |
2020-08-04T21:31:31.597665Z

Frame 17 |
2020-08-04T21:31:31.597665Z

R2

AllSPFRouters

R3

R1

AllDRouters

Instance ID	Base IPv6 Unicast AF (0)
Advertising Router	10.2.2.2
Advertising Router	10.2.2.2
Advertising Router	10.2.2.2
Advertising Router	10.2.2.2
Advertising Router	10.2.2.2

OSPFv3 LS Update

ID Source OSPF Router	10.2.2.2
Area ID	0.0.0.0 (Backbone)
Instance ID	Base IPv6 Unicast AF (0)
LS Age (seconds)	4
Advertising Router	10.2.2.2
Sequence Number	0x80000002
LS Age (seconds)	35
Advertising Router	10.2.2.2
Sequence Number	0x80000001
LS Age (seconds)	25
Advertising Router	10.2.2.2
Sequence Number	0x80000001
LS Age (seconds)	40
Advertising Router	10.2.2.2
Sequence Number	0x80000002...
	3 more

OSPFv3 DB Description

ID Source OSPF Router	10.1.1.1
Area ID	0.0.0.0 (Backbone)
Instance ID	Base IPv6 Unicast AF (0)
Options	0x000013, R, E, V6
Interface MTU	1500
DB Description	0x07, (I) Init, (M) More, (MS) Master
DD Sequence	852697263

OSPFv3 DB Description

ID Source OSPF Router	10.3.3.3
Area ID	0.0.0.0 (Backbone)
Instance ID	Base IPv6 Unicast AF (0)
Options	0x000013, R, E, V6
Interface MTU	1500
DB Description	0x07, (I) Init, (M) More, (MS) Master
DD Sequence	317999411

OSPFv3 DB Description

ID Source OSPF Router	10.1.1.1
Area ID	0.0.0.0 (Backbone)
Instance ID	Base IPv6 Unicast AF (0)
Options	0x000013, R, E, V6
Interface MTU	1500
DB Description	0x02, (M) More
DD Sequence	317999411
Advertising Router	10.1.1.1
Advertising Router	10.1.1.1
Advertising Router	10.1.1.1
Advertising Router	10.1.1.1
Advertising Router	10.1.1.1
Advertising Router	10.1.1.1

OSPFv3 DB Description

ID Source OSPF Router	10.3.3.3
Area ID	0.0.0.0 (Backbone)
Instance ID	Base IPv6 Unicast AF (0)
Options	0x000013, R, E, V6
Interface MTU	1500
DB Description	0x01, (MS) Master

Frame 18 |
2020-08-04T21:31:31.598666Z

Frame 19 |
2020-08-04T21:31:31.719925Z

Frame 20 |
2020-08-04T21:31:31.960722Z

Frame 21 |
2020-08-04T21:31:31.961716Z

Frame 22 |
2020-08-04T21:31:31.962718Z

R2

AllSPFRouters

R3

R1

AllDRouters

DD Sequence	317999412
Advertising Router	10.2.2.2
Advertising Router	10.3.3.3
Advertising Router	10.2.2.2
Advertising Router	10.2.2.2
Advertising Router	10.3.3.3
Advertising Router	10.3.3.3
Advertising Router	10.2.2.2
Advertising Router	10.3.3.3...
	2 more

OSPFv3 LS Request

ID Source OSPF Router	10.1.1.1
Area ID	0.0.0.0 (Backbone)
Instance ID	Base IPv6 Unicast AF (0)
Advertising Router	10.2.2.2
Advertising Router	10.3.3.3
Advertising Router	10.2.2.2
Advertising Router	10.2.2.2
Advertising Router	10.3.3.3
Advertising Router	10.3.3.3
Advertising Router	10.2.2.2
Advertising Router	10.3.3.3
Advertising Router	10.2.2.2
Advertising Router	10.3.3.3
Advertising Router	10.2.2.2
Advertising Router	10.3.3.3

OSPFv3 DB Description

ID Source OSPF Router	10.1.1.1
Area ID	0.0.0.0 (Backbone)
Instance ID	Base IPv6 Unicast AF (0)
Options	0x000013, R, E, V6
Interface MTU	1500
DB Description	0x00
DD Sequence	317999412

OSPFv3 LS Update

ID Source OSPF Router	10.3.3.3
Area ID	0.0.0.0 (Backbone)
Instance ID	Base IPv6 Unicast AF (0)
LS Age (seconds)	5
Advertising Router	10.2.2.2
Sequence Number	0x80000002
LS Age (seconds)	5
Advertising Router	10.3.3.3
Sequence Number	0x80000002
LS Age (seconds)	36
Advertising Router	10.2.2.2
Sequence Number	0x80000001
LS Age (seconds)	26
Advertising Router	10.2.2.2
Sequence Number	0x80000001...
	18 more

OSPFv3 LS Request

ID Source OSPF Router	10.3.3.3
Area ID	0.0.0.0 (Backbone)
Instance ID	Base IPv6 Unicast AF (0)
Advertising Router	10.1.1.1
Advertising Router	10.1.1.1
Advertising Router	10.1.1.1
Advertising Router	10.1.1.1
Advertising Router	10.1.1.1
Advertising Router	10.1.1.1

OSPFv3 LS Update

ID Source OSPF Router	10.1.1.1
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Frame 23 | 2020-08-04T21:31:31.963715Z

Frame 24 | 2020-08-04T21:31:31.963715Z

Frame 25 | 2020-08-04T21:31:31.964988Z

Frame 26 | 2020-08-04T21:31:31.964988Z

Frame 27 | 2020-08-04T21:31:31.966989Z

R2

AllSPFRouters

R3

R1

AllDRouters

Area ID	0.0.0.0 (Backbone)
Instance ID	Base IPv6 Unicast AF (0)
LS Age (seconds)	5
Advertising Router	10.1.1.1
Sequence Number	0x80000003
LS Age (seconds)	35
Advertising Router	10.1.1.1
Sequence Number	0x80000001
LS Age (seconds)	35
Advertising Router	10.1.1.1
Sequence Number	0x80000001
LS Age (seconds)	35
Advertising Router	10.1.1.1
Sequence Number	0x80000001...
	6 more

OSPFv3 LS Update

ID	Source OSPF Router	10.3.3.3
Area ID	0.0.0.0 (Backbone)	
Instance ID	Base IPv6 Unicast AF (0)	
LS Age (seconds)	41	
Advertising Router	10.1.1.1	
Sequence Number	0x80000002	
LS Age (seconds)	6	
Advertising Router	10.1.1.1	
Sequence Number	0x80000003	
LS Age (seconds)	36	
Advertising Router	10.1.1.1	
Sequence Number	0x80000001	
LS Age (seconds)	36	
Advertising Router	10.1.1.1	
Sequence Number	0x80000001...	
	6 more	

Frame 28 |
2020-08-04T21:31:31.967935Z

OSPFv3 LS Acknowledge

ID	Source OSPF Router	10.1.1.1
Area ID	0.0.0.0 (Backbone)	
Instance ID	Base IPv6 Unicast AF (0)	
Advertising Router	10.1.1.1	
Sequence Number	0x80000002	
Advertising Router	10.1.1.1	
Sequence Number	0x80000003	
Advertising Router	10.1.1.1	
Sequence Number	0x80000001	
Advertising Router	10.1.1.1	
Sequence Number	0x80000001	
Advertising Router	10.1.1.1	
Sequence Number	0x80000001	
Advertising Router	10.1.1.1	
Sequence Number	0x80000002	

Frame 29 |
2020-08-04T21:31:31.968935Z

OSPFv3 LS Update

ID	Source OSPF Router	10.2.2.2
Area ID	0.0.0.0 (Backbone)	
Instance ID	Base IPv6 Unicast AF (0)	
LS Age (seconds)	1	
Advertising Router	10.2.2.2	
Sequence Number	0x80000003	

Frame 30 |
2020-08-04T21:31:32.11379Z

OSPFv3 LS Update

ID	Source OSPF Router	10.3.3.3
Area ID	0.0.0.0 (Backbone)	
Instance ID	Base IPv6 Unicast AF (0)	
LS Age (seconds)	1	
Advertising Router	10.3.3.3	
Sequence Number	0x80000003	

Frame 31 |
2020-08-04T21:31:32.11379Z

R2

AllSPFRouters

R3

R1

AllDRouters

LS Age (seconds)	1
Advertising Router	10.3.3.3
Sequence Number	0x80000001
LS Age (seconds)	1
Advertising Router	10.3.3.3
Sequence Number	0x80000001

OSPFv3 LS Update

Source OSPF Router	10.3.3.3
Area ID	0.0.0.0 (Backbone)
Instance ID	Base IPv6 Unicast AF (0)
LS Age (seconds)	2
Advertising Router	10.2.2.2
Sequence Number	0x80000003

OSPFv3 LS Update

Source OSPF Router	10.1.1.1
Area ID	0.0.0.0 (Backbone)
Instance ID	Base IPv6 Unicast AF (0)
LS Age (seconds)	1
Advertising Router	10.1.1.1
Sequence Number	0x80000003

OSPFv3 LS Update

Source OSPF Router	10.3.3.3
Area ID	0.0.0.0 (Backbone)
Instance ID	Base IPv6 Unicast AF (0)
LS Age (seconds)	2
Advertising Router	10.1.1.1
Sequence Number	0x80000003

OSPFv3 LS Update

Source OSPF Router	10.3.3.3
Area ID	0.0.0.0 (Backbone)
Instance ID	Base IPv6 Unicast AF (0)
LS Age (seconds)	1
Advertising Router	10.3.3.3
Sequence Number	0x80000003

OSPFv3 LS Update

Source OSPF Router	10.1.1.1
Area ID	0.0.0.0 (Backbone)
Instance ID	Base IPv6 Unicast AF (0)
LS Age (seconds)	1
Advertising Router	10.1.1.1
Sequence Number	0x80000004

OSPFv3 LS Update

Source OSPF Router	10.3.3.3
Area ID	0.0.0.0 (Backbone)
Instance ID	Base IPv6 Unicast AF (0)
LS Age (seconds)	2
Advertising Router	10.1.1.1
Sequence Number	0x80000004

OSPFv3 LS Update

Source OSPF Router	10.2.2.2
Area ID	0.0.0.0 (Backbone)
Instance ID	Base IPv6 Unicast AF (0)
LS Age (seconds)	1
Advertising Router	10.2.2.2
Sequence Number	0x80000003

OSPFv3 LS Update

Source OSPF Router	10.3.3.3
Area ID	0.0.0.0 (Backbone)
Instance ID	Base IPv6 Unicast AF (0)

Frame 32 | 2020-08-04T21:31:32.156575Z

Frame 33 | 2020-08-04T21:31:32.481973Z

Frame 34 | 2020-08-04T21:31:32.495512Z

Frame 35 | 2020-08-04T21:31:32.537655Z

Frame 36 | 2020-08-04T21:31:32.655501Z

Frame 37 | 2020-08-04T21:31:32.669462Z

Frame 38 | 2020-08-04T21:31:32.693135Z

Frame 39 | 2020-08-04T21:31:32.707282Z

R2

AllSPFRouters

R3

R1

AllDRouters

LS Age (seconds)	2
Advertising Router	10.2.2.2
Sequence Number	0x80000003

✓ OSPFv3 LS Acknowledge

Frame 40 |
2020-08-04T21:31:34.10719Z

ID Source OSPF Router	10.2.2.2
Area ID	0.0.0.0 (Backbone)
Instance ID	Base IPv6 Unicast AF (0)
Advertising Router	10.3.3.3
Sequence Number	0x80000002
Advertising Router	10.3.3.3
Sequence Number	0x80000001
Advertising Router	10.3.3.3
Sequence Number	0x80000001
Advertising Router	10.3.3.3
Sequence Number	0x80000002
Advertising Router	10.3.3.3
Sequence Number	0x80000002
Advertising Router	10.1.1.1
Sequence Number	0x80000002...
18 more	

👋 OSPFv3 Hello Packet

Frame 41 |
2020-08-04T21:31:34.30434Z

ID Source OSPF Router	10.2.2.2
Area ID	0.0.0.0 (Backbone)
Instance ID	Base IPv6 Unicast AF (0)
Router Priority	0
Options	0x000013, R, E, V6
Hello Interval [sec]	10
Router Dead Interval [sec]	40
Designated Router	10.3.3.3
Backup Designated Router	10.3.3.3
Active Neighbor	10.1.1.1
Active Neighbor	10.3.3.3

✓ OSPFv3 LS Acknowledge

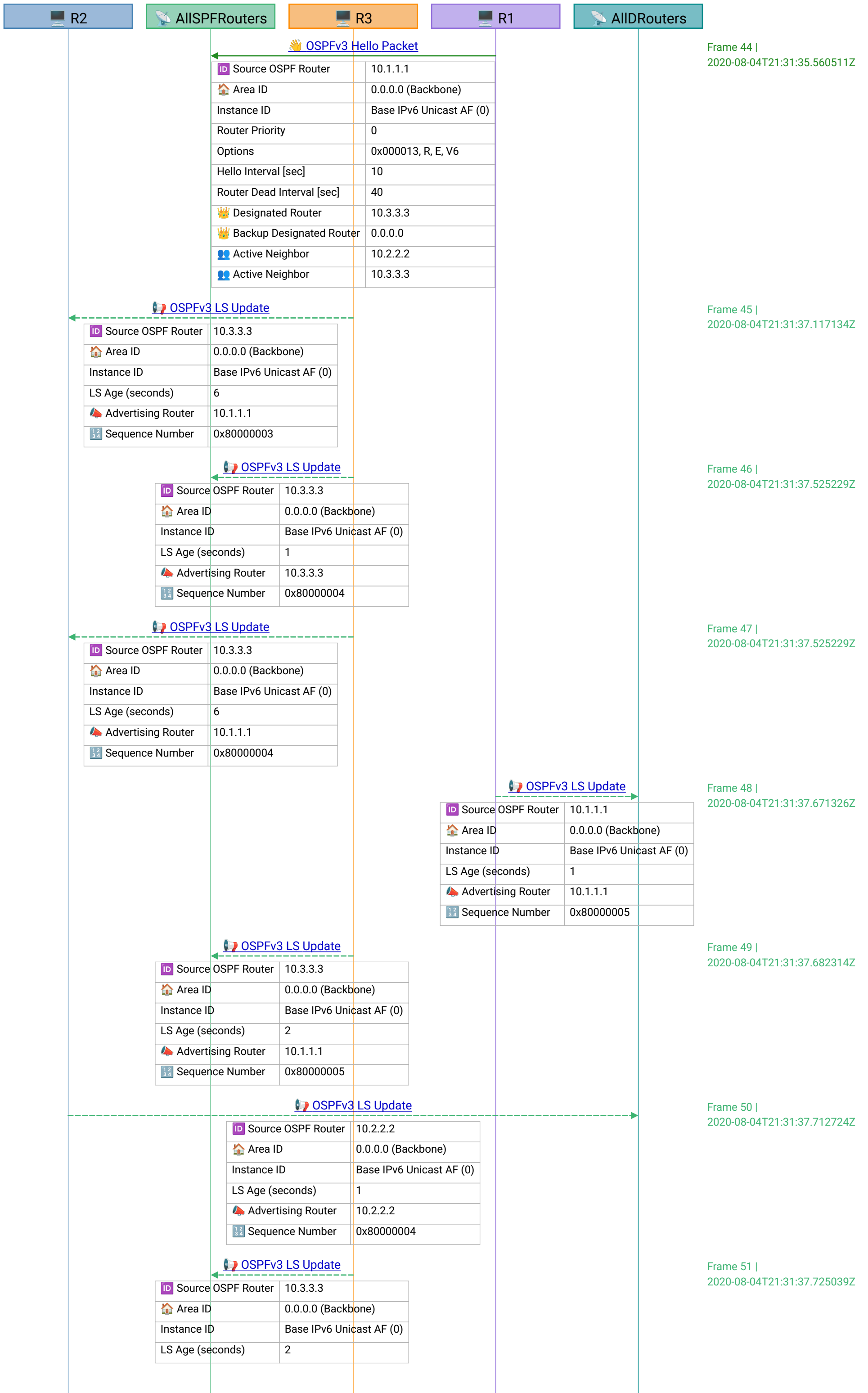
Frame 42 |
2020-08-04T21:31:34.468611Z

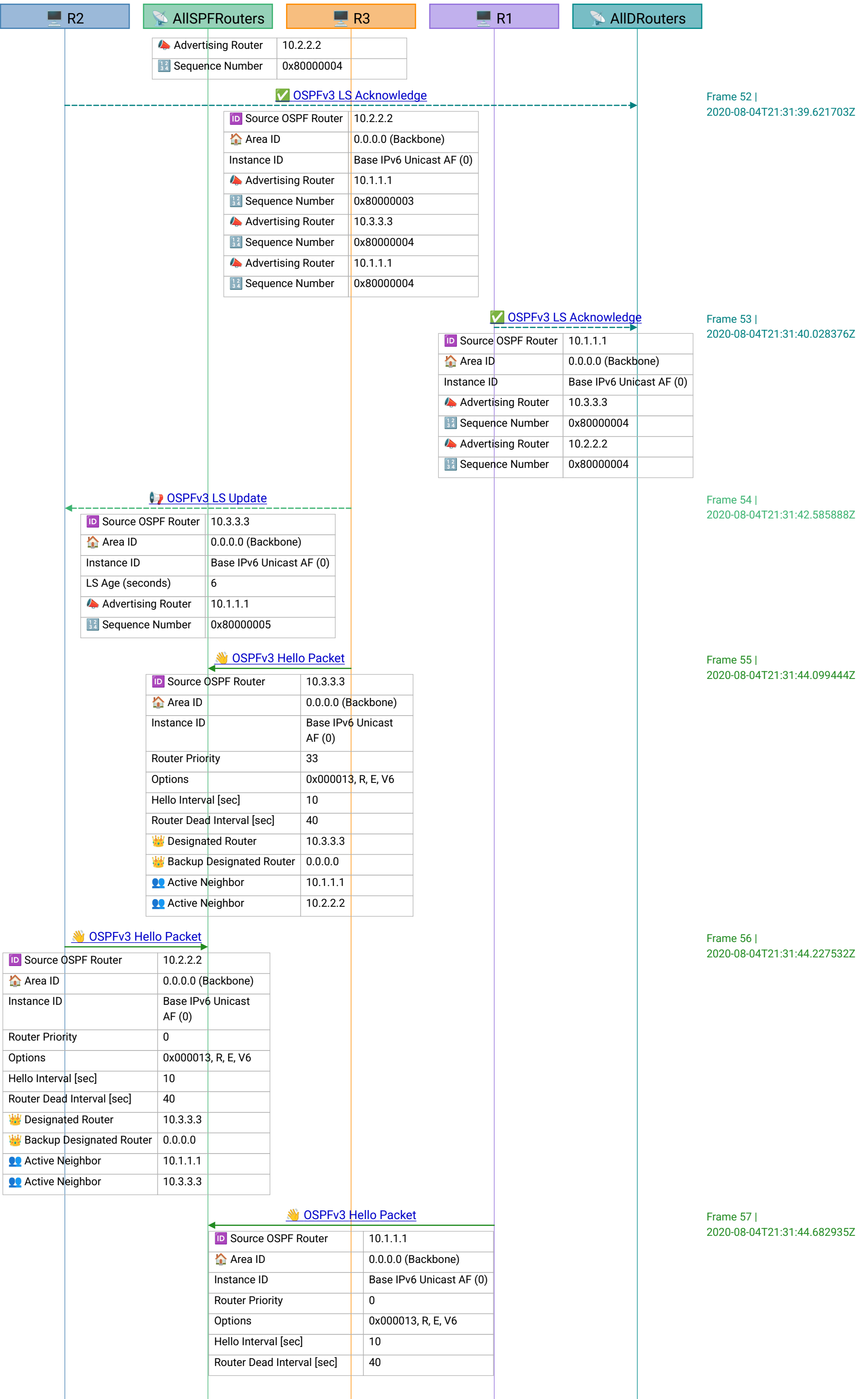
ID Source OSPF Router	10.1.1.1
Area ID	0.0.0.0 (Backbone)
Instance ID	Base IPv6 Unicast AF (0)
Advertising Router	10.2.2.2
Sequence Number	0x80000002
Advertising Router	10.3.3.3
Sequence Number	0x80000002
Advertising Router	10.2.2.2
Sequence Number	0x80000001
Advertising Router	10.2.2.2
Sequence Number	0x80000001
Advertising Router	10.3.3.3
Sequence Number	0x80000001
Advertising Router	10.3.3.3
Sequence Number	0x80000001...
20 more	

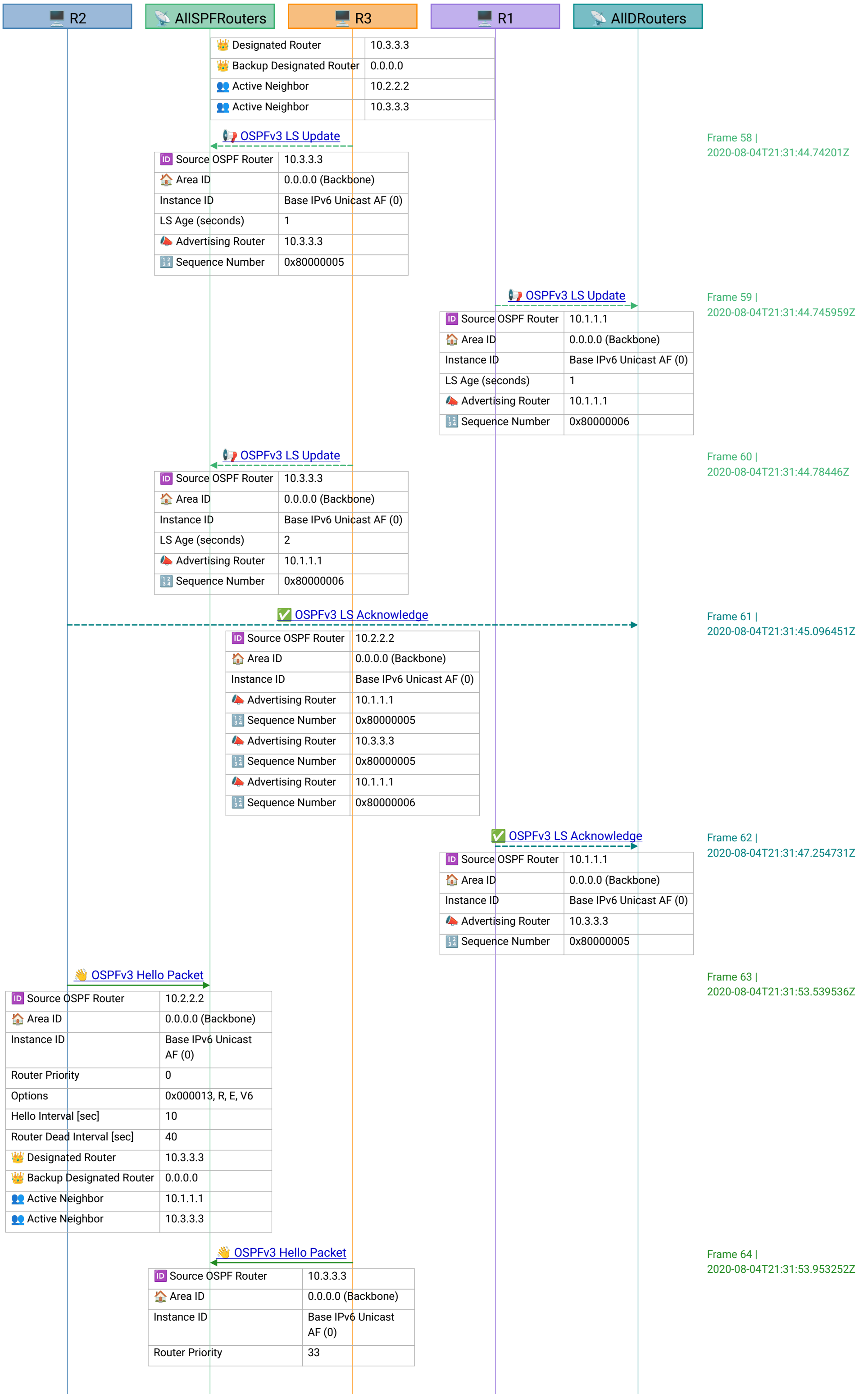
👋 OSPFv3 Hello Packet

Frame 43 |
2020-08-04T21:31:34.506829Z

ID Source OSPF Router	10.3.3.3
Area ID	0.0.0.0 (Backbone)
Instance ID	Base IPv6 Unicast AF (0)
Router Priority	33
Options	0x000013, R, E, V6
Hello Interval [sec]	10
Router Dead Interval [sec]	40
Designated Router	10.3.3.3
Backup Designated Router	0.0.0.0
Active Neighbor	10.1.1.1
Active Neighbor	10.2.2.2







R2

AllSPFRouters

R3

R1

AllDRouters

Options	0x000013, R, E, V6
Hello Interval [sec]	10
Router Dead Interval [sec]	40
👑 Designated Router	10.3.3.3
👑 Backup Designated Router	0.0.0.0
👤 Active Neighbor	10.1.1.1
👤 Active Neighbor	10.2.2.2

👋 OSPFv3 Hello Packet

ID Source OSPF Router	10.1.1.1
🏠 Area ID	0.0.0.0 (Backbone)
Instance ID	Base IPv6 Unicast AF (0)
Router Priority	0
Options	0x000013, R, E, V6
Hello Interval [sec]	10
Router Dead Interval [sec]	40
👑 Designated Router	10.3.3.3
👑 Backup Designated Router	0.0.0.0
👤 Active Neighbor	10.2.2.2
👤 Active Neighbor	10.3.3.3

Frame 65 |
2020-08-04T21:31:54.202632Z

👋 OSPFv3 Hello Packet

ID Source OSPF Router	10.2.2.2
🏠 Area ID	0.0.0.0 (Backbone)
Instance ID	Base IPv6 Unicast AF (0)
Router Priority	0
Options	0x000013, R, E, V6
Hello Interval [sec]	10
Router Dead Interval [sec]	40
👑 Designated Router	10.3.3.3
👑 Backup Designated Router	0.0.0.0
👤 Active Neighbor	10.1.1.1
👤 Active Neighbor	10.3.3.3

Frame 66 |
2020-08-04T21:32:02.921492Z

👋 OSPFv3 Hello Packet

ID Source OSPF Router	10.3.3.3
🏠 Area ID	0.0.0.0 (Backbone)
Instance ID	Base IPv6 Unicast AF (0)
Router Priority	33
Options	0x000013, R, E, V6
Hello Interval [sec]	10
Router Dead Interval [sec]	40
👑 Designated Router	10.3.3.3
👑 Backup Designated Router	0.0.0.0
👤 Active Neighbor	10.1.1.1
👤 Active Neighbor	10.2.2.2

Frame 67 |
2020-08-04T21:32:03.033402Z

👋 OSPFv3 Hello Packet

ID Source OSPF Router	10.1.1.1
🏠 Area ID	0.0.0.0 (Backbone)
Instance ID	Base IPv6 Unicast AF (0)
Router Priority	0
Options	0x000013, R, E, V6
Hello Interval [sec]	10
Router Dead Interval [sec]	40
👑 Designated Router	10.3.3.3
👑 Backup Designated Router	0.0.0.0
👤 Active Neighbor	10.2.2.2
👤 Active Neighbor	10.3.3.3

Frame 68 |
2020-08-04T21:32:03.747525Z