

R2

AllSPFRouters

R7

ospfv3\_v6\_nssa\_init.pcapng

**OSPFv3 Hello Packet**

ID Source OSPF Router	10.2.2.2
Area ID	0.0.0.3
Instance ID	Base IPv6 Unicast AF (0)
Router Priority	1
Options	0x000019, R, N, V6
Hello Interval [sec]	10
Router Dead Interval [sec]	40
Designated Router	0.0.0.0
Backup Designated Router	0.0.0.0

Frame 1 |  
2020-08-04T21:51:04.308402Z

**OSPFv3 Hello Packet**

ID Source OSPF Router	10.2.2.2
Area ID	0.0.0.3
Instance ID	Base IPv6 Unicast AF (0)
Router Priority	1
Options	0x000019, R, N, V6
Hello Interval [sec]	10
Router Dead Interval [sec]	40
Designated Router	0.0.0.0
Backup Designated Router	0.0.0.0

Frame 2 |  
2020-08-04T21:51:14.124021Z

**OSPFv3 Hello Packet**

ID Source OSPF Router	10.7.7.7
Area ID	0.0.0.3
Instance ID	Base IPv6 Unicast AF (0)
Router Priority	1
Options	0x000019, R, N, V6
Hello Interval [sec]	10
Router Dead Interval [sec]	40
Designated Router	0.0.0.0
Backup Designated Router	0.0.0.0

Frame 3 |  
2020-08-04T21:51:16.89523Z

**OSPFv3 Hello Packet**

ID Source OSPF Router	10.2.2.2
Area ID	0.0.0.3
Instance ID	Base IPv6 Unicast AF (0)
Router Priority	1
Options	0x000019, R, N, 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	10.7.7.7

Frame 4 |  
2020-08-04T21:51:23.537175Z

**OSPFv3 DB Description**

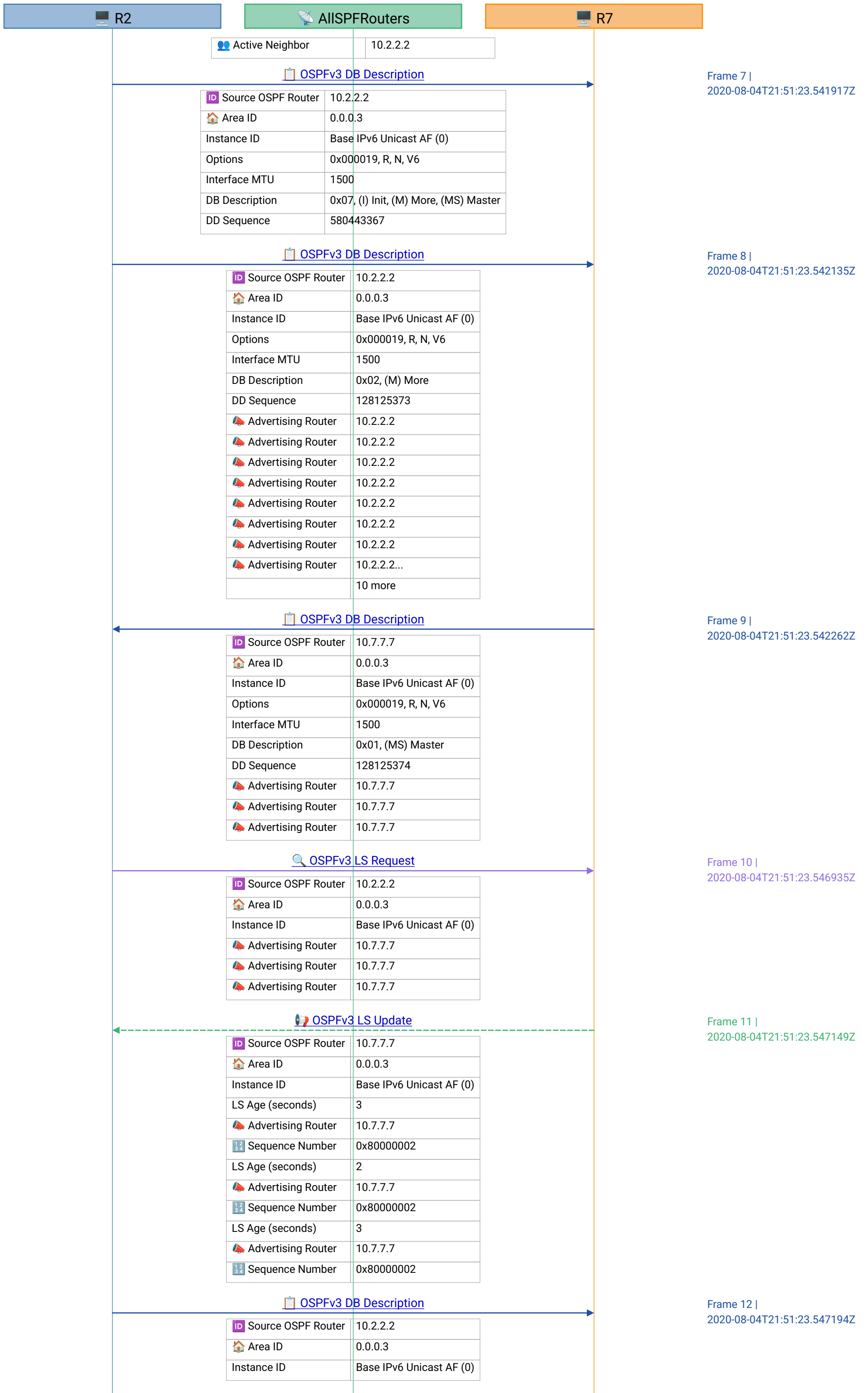
ID Source OSPF Router	10.7.7.7
Area ID	0.0.0.3
Instance ID	Base IPv6 Unicast AF (0)
Options	0x000019, R, N, V6
Interface MTU	1500
DB Description	0x07, (I) Init, (M) More, (MS) Master
DD Sequence	128125373

Frame 5 |  
2020-08-04T21:51:23.537352Z

**OSPFv3 Hello Packet**

ID Source OSPF Router	10.7.7.7
Area ID	0.0.0.3
Instance ID	Base IPv6 Unicast AF (0)
Router Priority	1
Options	0x000019, R, N, V6
Hello Interval [sec]	10
Router Dead Interval [sec]	40
Designated Router	0.0.0.0
Backup Designated Router	0.0.0.0

Frame 6 |  
2020-08-04T21:51:23.537386Z



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R7

Options	0x000019, R, N, V6
Interface MTU	1500
DB Description	0x00
DD Sequence	128125374

OSPFv3 LS Request

ID Source OSPF Router	10.7.7.7
Area ID	0.0.0.3
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
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
Advertising Router	10.2.2.2
Advertising Router	10.2.2.2
Advertising Router	10.2.2.2
Advertising Router	10.2.2.2...
	6 more

Frame 13 | 2020-08-04T21:51:23.547316Z

OSPFv3 LS Update

ID Source OSPF Router	10.2.2.2
Area ID	0.0.0.3
Instance ID	Base IPv6 Unicast AF (0)
LS Age (seconds)	1236
Advertising Router	10.2.2.2
Sequence Number	0x80000001
LS Age (seconds)	1227
Advertising Router	10.2.2.2
Sequence Number	0x80000001
LS Age (seconds)	1227
Advertising Router	10.2.2.2
Sequence Number	0x80000001
LS Age (seconds)	1217
Advertising Router	10.2.2.2
Sequence Number	0x80000001...
	42 more

Frame 14 | 2020-08-04T21:51:23.547532Z

OSPFv3 LS Update

ID Source OSPF Router	10.2.2.2
Area ID	0.0.0.3
Instance ID	Base IPv6 Unicast AF (0)
LS Age (seconds)	1
Advertising Router	10.2.2.2
Sequence Number	0x80000002

Frame 15 | 2020-08-04T21:51:24.065853Z

OSPFv3 LS Update

ID Source OSPF Router	10.7.7.7
Area ID	0.0.0.3
Instance ID	Base IPv6 Unicast AF (0)
LS Age (seconds)	1
Advertising Router	10.7.7.7
Sequence Number	0x80000003

Frame 16 | 2020-08-04T21:51:25.64708Z

OSPFv3 LS Acknowledge

ID Source OSPF Router	10.2.2.2
Area ID	0.0.0.3
Instance ID	Base IPv6 Unicast AF (0)
Advertising Router	10.7.7.7
Sequence Number	0x80000002
Advertising Router	10.7.7.7
Sequence Number	0x80000002
Advertising Router	10.7.7.7

Frame 17 | 2020-08-04T21:51:26.055581Z

**R2**

**AllSPFRouters**

**R7**

1 2 3 4	Sequence Number	0x80000002
🚩	Advertising Router	10.7.7.7
1 2 3 4	Sequence Number	0x80000003

✔️ OSPFv3 LS Acknowledge

Frame 18 |  
2020-08-04T21:51:26.055619Z

ID	Source OSPF Router	10.7.7.7
🏠	Area ID	0.0.0.3
	Instance ID	Base IPv6 Unicast AF (0)
🚩	Advertising Router	10.2.2.2
1 2 3 4	Sequence Number	0x80000001
🚩	Advertising Router	10.2.2.2
1 2 3 4	Sequence Number	0x80000001
🚩	Advertising Router	10.2.2.2
1 2 3 4	Sequence Number	0x80000001
🚩	Advertising Router	10.2.2.2
1 2 3 4	Sequence Number	0x80000001
🚩	Advertising Router	10.2.2.2
1 2 3 4	Sequence Number	0x80000001...
		26 more

👋 OSPFv3 Hello Packet

Frame 19 |  
2020-08-04T21:51:26.640168Z

ID	Source OSPF Router	10.7.7.7
🏠	Area ID	0.0.0.3
	Instance ID	Base IPv6 Unicast AF (0)
	Router Priority	1
	Options	0x000019, R, N, 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

👋 OSPFv3 Hello Packet

Frame 20 |  
2020-08-04T21:51:33.345909Z

ID	Source OSPF Router	10.2.2.2
🏠	Area ID	0.0.0.3
	Instance ID	Base IPv6 Unicast AF (0)
	Router Priority	1
	Options	0x000019, R, N, 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	10.7.7.7

👋 OSPFv3 Hello Packet

Frame 21 |  
2020-08-04T21:51:36.119332Z

ID	Source OSPF Router	10.7.7.7
🏠	Area ID	0.0.0.3
	Instance ID	Base IPv6 Unicast AF (0)
	Router Priority	1
	Options	0x000019, R, N, 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

👋 OSPFv3 Hello Packet

Frame 22 |  
2020-08-04T21:51:43.297911Z

ID	Source OSPF Router	10.2.2.2
🏠	Area ID	0.0.0.3
	Instance ID	Base IPv6 Unicast AF (0)
	Router Priority	1
	Options	0x000019, R, N, V6
	Hello Interval [sec]	10
	Router Dead Interval [sec]	40

R2

AllSPFRouters

R7

👑 Designated Router	0.0.0.0
👑 Backup Designated Router	0.0.0.0
👤 Active Neighbor	10.7.7.7

👋 OSPFv3 Hello Packet

ID	Source OSPF Router	10.7.7.7
🏠	Area ID	0.0.0.3
	Instance ID	Base IPv6 Unicast AF (0)
	Router Priority	1
	Options	0x000019, R, N, 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

Frame 23 |  
2020-08-04T21:51:45.532314Z