

R2

AllSPFRouters

R7

ospfv3\_v4\_nssa\_init.pcapng

👋 OSPFv3 Hello Packet

🆔 Source OSPF Router	10.2.2.2
🏠 Area ID	0.0.0.3
Instance ID	Base IPv4 Unicast AF (64)
Router Priority	1
Options	0x000118, AF, R, N
Hello Interval [sec]	10
Router Dead Interval [sec]	40
👑 Designated Router	0.0.0.0
👑 Backup Designated Router	0.0.0.0

Frame 1 |  
2020-08-04T21:51:08.689854Z

👋 OSPFv3 Hello Packet

🆔 Source OSPF Router	10.7.7.7
🏠 Area ID	0.0.0.3
Instance ID	Base IPv4 Unicast AF (64)
Router Priority	1
Options	0x000118, AF, R, N
Hello Interval [sec]	10
Router Dead Interval [sec]	40
👑 Designated Router	0.0.0.0
👑 Backup Designated Router	0.0.0.0

Frame 2 |  
2020-08-04T21:51:16.895508Z

👋 OSPFv3 Hello Packet

🆔 Source OSPF Router	10.2.2.2
🏠 Area ID	0.0.0.3
Instance ID	Base IPv4 Unicast AF (64)
Router Priority	1
Options	0x000118, AF, R, N
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 3 |  
2020-08-04T21:51:16.901378Z

📄 OSPFv3 DB Description

🆔 Source OSPF Router	10.7.7.7
🏠 Area ID	0.0.0.3
Instance ID	Base IPv4 Unicast AF (64)
Options	0x000118, AF, R, N
Interface MTU	1500
DB Description	0x07, (I) Init, (M) More, (MS) Master
DD Sequence	251084191

Frame 4 |  
2020-08-04T21:51:16.901994Z

👋 OSPFv3 Hello Packet

🆔 Source OSPF Router	10.7.7.7
🏠 Area ID	0.0.0.3
Instance ID	Base IPv4 Unicast AF (64)
Router Priority	1
Options	0x000118, AF, R, N
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 5 |  
2020-08-04T21:51:16.902017Z

📄 OSPFv3 DB Description

🆔 Source OSPF Router	10.2.2.2
🏠 Area ID	0.0.0.3
Instance ID	Base IPv4 Unicast AF (64)
Options	0x000118, AF, R, N
Interface MTU	1500
DB Description	0x07, (I) Init, (M) More, (MS) Master
DD Sequence	486987663

Frame 6 |  
2020-08-04T21:51:16.902138Z

R2

AllSPFRouters

R7

OSPFv3 DB Description

Frame 7 |  
2020-08-04T21:51:16.902304Z

Source OSPF Router	10.2.2.2
Area ID	0.0.0.3
Instance ID	Base IPv4 Unicast AF (64)
Options	0x000118, AF, R, N
Interface MTU	1500
DB Description	0x02, (M) More
DD Sequence	251084191
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...
	7 more

OSPFv3 DB Description

Frame 8 |  
2020-08-04T21:51:16.902672Z

Source OSPF Router	10.7.7.7
Area ID	0.0.0.3
Instance ID	Base IPv4 Unicast AF (64)
Options	0x000118, AF, R, N
Interface MTU	1500
DB Description	0x01, (MS) Master
DD Sequence	251084192
Advertising Router	10.7.7.7
Advertising Router	10.7.7.7
Advertising Router	10.7.7.7

OSPFv3 LS Request

Frame 9 |  
2020-08-04T21:51:16.90283Z

Source OSPF Router	10.2.2.2
Area ID	0.0.0.3
Instance ID	Base IPv4 Unicast AF (64)
Advertising Router	10.7.7.7
Advertising Router	10.7.7.7
Advertising Router	10.7.7.7

OSPFv3 DB Description

Frame 10 |  
2020-08-04T21:51:16.902903Z

Source OSPF Router	10.2.2.2
Area ID	0.0.0.3
Instance ID	Base IPv4 Unicast AF (64)
Options	0x000118, AF, R, N
Interface MTU	1500
DB Description	0x00
DD Sequence	251084192

OSPFv3 LS Update

Frame 11 |  
2020-08-04T21:51:16.903214Z

Source OSPF Router	10.7.7.7
Area ID	0.0.0.3
Instance ID	Base IPv4 Unicast AF (64)
LS Age (seconds)	2
Advertising Router	10.7.7.7
Sequence Number	0x80000001
LS Age (seconds)	1
Advertising Router	10.7.7.7
Sequence Number	0x80000001
LS Age (seconds)	2
Advertising Router	10.7.7.7
Sequence Number	0x80000001

OSPFv3 LS Request

Frame 12 |  
2020-08-04T21:51:16.903272Z

Source OSPF Router	10.7.7.7
Area ID	0.0.0.3
Instance ID	Base IPv4 Unicast AF (64)
Advertising Router	10.2.2.2

R2

AllSPFRouters

R7

	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...
		3 more

OSPFv3 LS Update

	Source OSPF Router	10.2.2.2
	Area ID	0.0.0.3
	Instance ID	Base IPv4 Unicast AF (64)
	LS Age (seconds)	1230
	Advertising Router	10.2.2.2
	Sequence Number	0x80000001
	LS Age (seconds)	1220
	Advertising Router	10.2.2.2
	Sequence Number	0x80000001
	LS Age (seconds)	1220
	Advertising Router	10.2.2.2
	Sequence Number	0x80000001
	LS Age (seconds)	1185
	Advertising Router	10.2.2.2
	Sequence Number	0x80000001...
		33 more

Frame 13 |  
2020-08-04T21:51:16.903466Z

OSPFv3 LS Update

	Source OSPF Router	10.2.2.2
	Area ID	0.0.0.3
	Instance ID	Base IPv4 Unicast AF (64)
	LS Age (seconds)	1
	Advertising Router	10.2.2.2
	Sequence Number	0x80000002

Frame 14 |  
2020-08-04T21:51:17.423333Z

OSPFv3 Hello Packet

	Source OSPF Router	10.2.2.2
	Area ID	0.0.0.3
	Instance ID	Base IPv4 Unicast AF (64)
	Router Priority	1
	Options	0x000118, AF, R, N
	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 15 |  
2020-08-04T21:51:18.330347Z

OSPFv3 LS Acknowledge

	Source OSPF Router	10.7.7.7
	Area ID	0.0.0.3
	Instance ID	Base IPv4 Unicast AF (64)
	Advertising Router	10.2.2.2
	Sequence Number	0x80000001
	Advertising Router	10.2.2.2
	Sequence Number	0x80000001
	Advertising Router	10.2.2.2
	Sequence Number	0x80000001
	Advertising Router	10.2.2.2
	Sequence Number	0x80000001
	Advertising Router	10.2.2.2
	Sequence Number	0x80000001
	Advertising Router	10.2.2.2

Frame 16 |  
2020-08-04T21:51:19.410492Z

**R2**

**AllSPFRouters**

**R7**

Sequence Number	0x80000001...
	20 more

OSPFv3 LS Acknowledge

Source OSPF Router	10.2.2.2
Area ID	0.0.0.3
Instance ID	Base IPv4 Unicast AF (64)
Advertising Router	10.7.7.7
Sequence Number	0x80000001
Advertising Router	10.7.7.7
Sequence Number	0x80000001
Advertising Router	10.7.7.7
Sequence Number	0x80000001

Frame 17 |  
2020-08-04T21:51:19.410657Z

OSPFv3 LS Update

Source OSPF Router	10.7.7.7
Area ID	0.0.0.3
Instance ID	Base IPv4 Unicast AF (64)
LS Age (seconds)	1
Advertising Router	10.7.7.7
Sequence Number	0x80000002
LS Age (seconds)	1
Advertising Router	10.7.7.7
Sequence Number	0x80000002

Frame 18 |  
2020-08-04T21:51:20.642214Z

OSPFv3 LS Acknowledge

Source OSPF Router	10.2.2.2
Area ID	0.0.0.3
Instance ID	Base IPv4 Unicast AF (64)
Advertising Router	10.7.7.7
Sequence Number	0x80000002
Advertising Router	10.7.7.7
Sequence Number	0x80000002

Frame 19 |  
2020-08-04T21:51:23.149401Z

OSPFv3 Hello Packet

Source OSPF Router	10.7.7.7
Area ID	0.0.0.3
Instance ID	Base IPv4 Unicast AF (64)
Router Priority	1
Options	0x000118, AF, R, N
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 20 |  
2020-08-04T21:51:26.298991Z

OSPFv3 Hello Packet

Source OSPF Router	10.2.2.2
Area ID	0.0.0.3
Instance ID	Base IPv4 Unicast AF (64)
Router Priority	1
Options	0x000118, AF, R, N
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 21 |  
2020-08-04T21:51:27.616157Z

OSPFv3 Hello Packet

Source OSPF Router	10.7.7.7
Area ID	0.0.0.3
Instance ID	Base IPv4 Unicast AF (64)
Router Priority	1
Options	0x000118, AF, R, N
Hello Interval [sec]	10
Router Dead Interval [sec]	40
Designated Router	0.0.0.0

Frame 22 |  
2020-08-04T21:51:36.029658Z

**R2**

**AllSPFRouters**

**R7**

👑 Backup Designated Router	0.0.0.0
👤 Active Neighbor	10.2.2.2

👋 OSPFv3 Hello Packet

👤 Source OSPF Router	10.2.2.2
🏠 Area ID	0.0.0.3
Instance ID	Base IPv4 Unicast AF (64)
Router Priority	1
Options	0x000118, AF, R, N
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 23 |  
2020-08-04T21:51:37.071941Z

👋 OSPFv3 Hello Packet

👤 Source OSPF Router	10.7.7.7
🏠 Area ID	0.0.0.3
Instance ID	Base IPv4 Unicast AF (64)
Router Priority	1
Options	0x000118, AF, R, N
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 24 |  
2020-08-04T21:51:45.448353Z

👋 OSPFv3 Hello Packet

👤 Source OSPF Router	10.2.2.2
🏠 Area ID	0.0.0.3
Instance ID	Base IPv4 Unicast AF (64)
Router Priority	1
Options	0x000118, AF, R, N
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 25 |  
2020-08-04T21:51:46.967319Z