

R2

AllSPFRouters

R7

ospfv2\_nssa\_init.pcapng

👉 OSPF Hello Packet

ID Source OSPF Router	10.0.0.2
🏠 Area ID	0.0.0.3
Network Mask	255.255.255.0
Hello Interval [sec]	10
Options	0x18, (L) LLS Data block, (N) NSSA
Router Priority	1
Router Dead Interval [sec]	40
👑 Designated Router	0.0.0.0
👑 Backup Designated Router	0.0.0.0

Frame 1 |  
2020-08-04T21:51:09.195787Z

👈 OSPF Hello Packet

ID Source OSPF Router	10.0.0.7
🏠 Area ID	0.0.0.3
Network Mask	255.255.255.0
Hello Interval [sec]	10
Options	0x18, (L) LLS Data block, (N) NSSA
Router Priority	1
Router Dead Interval [sec]	40
👑 Designated Router	0.0.0.0
👑 Backup Designated Router	0.0.0.0

Frame 2 |  
2020-08-04T21:51:15.889634Z

👉 OSPF Hello Packet

ID Source OSPF Router	10.0.0.2
🏠 Area ID	0.0.0.3
Network Mask	255.255.255.0
Hello Interval [sec]	10
Options	0x18, (L) LLS Data block, (N) NSSA
Router Priority	1
Router Dead Interval [sec]	40
👑 Designated Router	0.0.0.0
👑 Backup Designated Router	0.0.0.0
👤 Active Neighbor	10.0.0.7

Frame 3 |  
2020-08-04T21:51:18.212201Z

📄 OSPF DB Description

ID Source OSPF Router	10.0.0.7
🏠 Area ID	0.0.0.3
Interface MTU	1500
Options	0x58, (O) Opaque, (L) LLS Data block, (N) NSSA
DB Description	0x07, (I) Init, (M) More, (MS) Master
DD Sequence	4505

Frame 4 |  
2020-08-04T21:51:18.212674Z

👈 OSPF Hello Packet

ID Source OSPF Router	10.0.0.7
🏠 Area ID	0.0.0.3
Network Mask	255.255.255.0
Hello Interval [sec]	10
Options	0x18, (L) LLS Data block, (N) NSSA
Router Priority	1
Router Dead Interval [sec]	40
👑 Designated Router	0.0.0.0
👑 Backup Designated Router	0.0.0.0
👤 Active Neighbor	10.0.0.2

Frame 5 |  
2020-08-04T21:51:18.212695Z

📄 OSPF DB Description

ID Source OSPF Router	10.0.0.2
🏠 Area ID	0.0.0.3
Interface MTU	1500
Options	0x58, (O) Opaque, (L) LLS Data block, (N) NSSA
DB Description	0x07, (I) Init, (M) More, (MS) Master
DD Sequence	2506

Frame 6 |  
2020-08-04T21:51:18.212837Z

📄 OSPF DB Description

ID Source OSPF Router	10.0.0.2
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Frame 7 |  
2020-08-04T21:51:18.213065Z

R2

AllSPFRouters

R7

Area ID	0.0.0.3
Interface MTU	1500
Options	0x58, (O) Opaque, (L) LLS Data block, (N) NSSA
DB Description	0x02, (M) More
DD Sequence	4505
Options	0x28, (DC) Demand Circuits, (N) NSSA
LS Type	Router-LSA (1)
Link State ID	10.0.0.2
Advertising Router	10.0.0.2
Options	0x28, (DC) Demand Circuits, (N) NSSA
LS Type	Summary-LSA (IP network) (3)
Link State ID	10.0.0.1
Advertising Router	10.0.0.2
Options	0x28, (DC) Demand Circuits, (N) NSSA...
	23 more

OSPF DB Description

Source OSPF Router	10.0.0.7
Area ID	0.0.0.3
Interface MTU	1500
Options	0x58, (O) Opaque, (L) LLS Data block, (N) NSSA
DB Description	0x01, (MS) Master
DD Sequence	4506
Options	0x28, (DC) Demand Circuits, (N) NSSA
LS Type	Router-LSA (1)
Link State ID	10.0.0.7
Advertising Router	10.0.0.7

OSPF LS Request

Source OSPF Router	10.0.0.2
Area ID	0.0.0.3
Advertising Router	10.0.0.7

OSPF DB Description

Source OSPF Router	10.0.0.2
Area ID	0.0.0.3
Interface MTU	1500
Options	0x58, (O) Opaque, (L) LLS Data block, (N) NSSA
DB Description	0x00
DD Sequence	4506

OSPF LS Update

Source OSPF Router	10.0.0.7
Area ID	0.0.0.3
LS Age (seconds)	4
LS Type	Router-LSA (1)
Router LSA	True
Link State ID	10.0.0.7
Advertising Router	10.0.0.7
Sequence Number	0x80000001

OSPF LS Request

Source OSPF Router	10.0.0.7
Area ID	0.0.0.3
Advertising Router	10.0.0.2
Advertising Router	10.0.0.2
Advertising Router	10.0.0.2
Advertising Router	10.0.0.2
Advertising Router	10.0.0.2
Advertising Router	10.0.0.2
Advertising Router	10.0.0.2
Advertising Router	10.0.0.2

OSPF LS Update

Source OSPF Router	10.0.0.2
Area ID	0.0.0.3
LS Age (seconds)	1232

Frame 8 | 2020-08-04T21:51:18.213435Z

Frame 9 | 2020-08-04T21:51:18.213593Z

Frame 10 | 2020-08-04T21:51:18.213822Z

Frame 11 | 2020-08-04T21:51:18.213912Z

Frame 12 | 2020-08-04T21:51:18.214444Z

Frame 13 | 2020-08-04T21:51:18.214592Z

**R2**

**AllSPFRouters**

**R7**

LS Type	Router-LSA (1)
Router LSA	True
Link State ID	10.0.0.2
Advertising Router	10.0.0.2
Sequence Number	0x80000001
LS Age (seconds)	1177
LS Type	Summary-LSA (IP network) (3)
Link State ID	10.0.0.1
Advertising Router	10.0.0.2
Sequence Number	0x80000001
LS Age (seconds)	1218
LS Type	Summary-LSA (IP network) (3)...
	28 more

**OSPF LS Update**

Source OSPF Router	10.0.0.2
Area ID	0.0.0.3
LS Age (seconds)	1
LS Type	Router-LSA (1)
Router LSA	True
Link State ID	10.0.0.2
Advertising Router	10.0.0.2
Sequence Number	0x80000002

Frame 14 | 2020-08-04T21:51:18.73318Z

**OSPF LS Update**

Source OSPF Router	10.0.0.7
Area ID	0.0.0.3
LS Age (seconds)	1
LS Type	Router-LSA (1)
Router LSA	True
Link State ID	10.0.0.7
Advertising Router	10.0.0.7
Sequence Number	0x80000002

Frame 15 | 2020-08-04T21:51:19.753032Z

**OSPF LS Acknowledge**

Source OSPF Router	10.0.0.7
Area ID	0.0.0.3
Link State ID	10.0.0.2
Advertising Router	10.0.0.2
Sequence Number	0x80000001
Link State ID	10.0.0.1
Advertising Router	10.0.0.2
Sequence Number	0x80000001
Link State ID	10.0.0.2
Advertising Router	10.0.0.2
Sequence Number	0x80000001
Link State ID	10.0.0.3
Advertising Router	10.0.0.2
Sequence Number	0x80000001
Link State ID	10.0.0.4...
	14 more

Frame 16 | 2020-08-04T21:51:20.714626Z

**OSPF LS Acknowledge**

Source OSPF Router	10.0.0.2
Area ID	0.0.0.3
Link State ID	10.0.0.7
Advertising Router	10.0.0.7
Sequence Number	0x80000001
Link State ID	10.0.0.7
Advertising Router	10.0.0.7
Sequence Number	0x80000002

Frame 17 | 2020-08-04T21:51:20.71483Z

**OSPF Hello Packet**

Source OSPF Router	10.0.0.7
Area ID	0.0.0.3
Network Mask	255.255.255.0

Frame 18 | 2020-08-04T21:51:25.453089Z

R2

AllSPFRouters

R7

Hello Interval [sec]	10
Options	0x18, (L) LLS Data block, (N) NSSA
Router Priority	1
Router Dead Interval [sec]	40
👑 Designated Router	0.0.0.0
👑 Backup Designated Router	0.0.0.0
👤 Active Neighbor	10.0.0.2

👋 OSPF Hello Packet

👤 Source OSPF Router	10.0.0.2
🏠 Area ID	0.0.0.3
Network Mask	255.255.255.0
Hello Interval [sec]	10
Options	0x18, (L) LLS Data block, (N) NSSA
Router Priority	1
Router Dead Interval [sec]	40
👑 Designated Router	0.0.0.0
👑 Backup Designated Router	0.0.0.0
👤 Active Neighbor	10.0.0.7

Frame 19 |  
2020-08-04T21:51:28.198307Z

👋 OSPF Hello Packet

👤 Source OSPF Router	10.0.0.7
🏠 Area ID	0.0.0.3
Network Mask	255.255.255.0
Hello Interval [sec]	10
Options	0x18, (L) LLS Data block, (N) NSSA
Router Priority	1
Router Dead Interval [sec]	40
👑 Designated Router	0.0.0.0
👑 Backup Designated Router	0.0.0.0
👤 Active Neighbor	10.0.0.2

Frame 20 |  
2020-08-04T21:51:34.752691Z