

10.0.0.2

AllSPFRouters

R4 (ABR/ASBR)

ospfv2\_unnumbered\_init.pcapng

OSPF Hello Packet

Frame 1 |  
2020-08-04T22:05:30.247186Z

ID Source OSPF Router	10.0.0.2
Area ID	0.0.0.1
Network Mask	0.0.0.0
Hello Interval [sec]	10
Options	0x12, (L) LLS Data block, (E) External Routing
Router Priority	1
Router Dead Interval [sec]	40
Designated Router	0.0.0.0
Backup Designated Router	0.0.0.0
Active Neighbor	10.0.0.4

OSPF Hello Packet

Frame 2 |  
2020-08-04T22:05:30.682981Z

ID Source OSPF Router	10.0.0.4
Area ID	0.0.0.1
Network Mask	0.0.0.0
Hello Interval [sec]	10
Options	0x12, (L) LLS Data block, (E) External Routing
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

Frame 3 |  
2020-08-04T22:05:39.984323Z

ID Source OSPF Router	10.0.0.2
Area ID	0.0.0.1
Network Mask	0.0.0.0
Hello Interval [sec]	10
Options	0x12, (L) LLS Data block, (E) External Routing
Router Priority	1
Router Dead Interval [sec]	40
Designated Router	0.0.0.0
Backup Designated Router	0.0.0.0
Active Neighbor	10.0.0.4

OSPF Hello Packet

Frame 4 |  
2020-08-04T22:09:17.360049Z

ID Source OSPF Router	10.0.0.2
Area ID	0.0.0.1
Network Mask	0.0.0.0
Hello Interval [sec]	10
Options	0x12, (L) LLS Data block, (E) External Routing
Router Priority	1
Router Dead Interval [sec]	40
Designated Router	0.0.0.0
Backup Designated Router	0.0.0.0

OSPF Hello Packet

Frame 5 |  
2020-08-04T22:09:26.841451Z

ID Source OSPF Router	10.0.0.2
Area ID	0.0.0.1
Network Mask	0.0.0.0
Hello Interval [sec]	10
Options	0x12, (L) LLS Data block, (E) External Routing
Router Priority	1
Router Dead Interval [sec]	40
Designated Router	0.0.0.0
Backup Designated Router	0.0.0.0

OSPF Hello Packet

Frame 6 |  
2020-08-04T22:09:26.848065Z

ID Source OSPF Router	10.0.0.4
Area ID	0.0.0.1
Network Mask	0.0.0.0
Hello Interval [sec]	10
Options	0x12, (L) LLS Data block, (E) External Routing

10.0.0.2

AllSPFRouters

R4 (ABR/ASBR)

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 DB Description

Frame 7 | 2020-08-04T22:09:26.854721Z

👤 Source OSPF Router	10.0.0.2
🏠 Area ID	0.0.0.1
Interface MTU	1476
Options	0x52, (O) Opaque, (L) LLS Data block, (E) External Routing
DB Description	0x07, (I) Init, (M) More, (MS) Master
DD Sequence	4157

📄 OSPF DB Description

Frame 8 | 2020-08-04T22:09:26.854949Z

👤 Source OSPF Router	10.0.0.4
🏠 Area ID	0.0.0.1
Interface MTU	1476
Options	0x52, (O) Opaque, (L) LLS Data block, (E) External Routing
DB Description	0x07, (I) Init, (M) More, (MS) Master
DD Sequence	9358

👋 OSPF Hello Packet

Frame 9 | 2020-08-04T22:09:26.855007Z

👤 Source OSPF Router	10.0.0.2
🏠 Area ID	0.0.0.1
Network Mask	0.0.0.0
Hello Interval [sec]	10
Options	0x12, (L) LLS Data block, (E) External Routing
Router Priority	1
Router Dead Interval [sec]	40
👑 Designated Router	0.0.0.0
👑 Backup Designated Router	0.0.0.0
👤 Active Neighbor	10.0.0.4

📄 OSPF DB Description

Frame 10 | 2020-08-04T22:09:26.861858Z

👤 Source OSPF Router	10.0.0.2
🏠 Area ID	0.0.0.1
Interface MTU	1476
Options	0x52, (O) Opaque, (L) LLS Data block, (E) External Routing
DB Description	0x02, (M) More
DD Sequence	9358
Options	0x22, (DC) Demand Circuits, (E) External Routing
LS Type	Router-LSA (1)
Link State ID	10.0.0.2
🚩 Advertising Router	10.0.0.2
Options	0x22, (DC) Demand Circuits, (E) External Routing
LS Type	Summary-LSA (IP network) (3)
Link State ID	10.0.0.2
🚩 Advertising Router	10.0.0.2
Options	0x22, (DC) Demand Circuits, (E) External Routing...
	7 more

📄 OSPF DB Description

Frame 11 | 2020-08-04T22:09:26.862196Z

👤 Source OSPF Router	10.0.0.4
🏠 Area ID	0.0.0.1
Interface MTU	1476
Options	0x52, (O) Opaque, (L) LLS Data block, (E) External Routing
DB Description	0x01, (MS) Master
DD Sequence	9359
Options	0x22, (DC) Demand Circuits, (E) External Routing
LS Type	Router-LSA (1)
Link State ID	10.0.0.4
🚩 Advertising Router	10.0.0.4
Options	0x22, (DC) Demand Circuits, (E) External Routing
LS Type	Summary-LSA (IP network) (3)
Link State ID	10.0.0.4

10.0.0.2

AllSPFRouters

R4 (ABR/ASBR)

Advertising Router	10.0.0.4
Options	0x22, (DC) Demand Circuits, (E) External Routing...
	11 more

OSPF LS Request

ID Source OSPF Router	10.0.0.2
Area ID	0.0.0.1
Advertising Router	10.0.0.4
Advertising Router	10.0.0.4
Advertising Router	10.0.0.4
Advertising Router	10.0.0.4
Advertising Router	10.0.0.4

OSPF DB Description

ID Source OSPF Router	10.0.0.2
Area ID	0.0.0.1
Interface MTU	1476
Options	0x52, (O) Opaque, (L) LLS Data block, (E) External Routing
DB Description	0x00
DD Sequence	9359

Frame 12 | 2020-08-04T22:09:26.862388Z

Frame 13 | 2020-08-04T22:09:26.862672Z

OSPF LS Update

ID Source OSPF Router	10.0.0.4
Area ID	0.0.0.1
LS Age (seconds)	4
LS Type	Router-LSA (1)
Router LSA	True
Link State ID	10.0.0.4
Advertising Router	10.0.0.4
Sequence Number	0x80000002
LS Age (seconds)	10
LS Type	Summary-LSA (IP network) (3)
Link State ID	10.0.0.4
Advertising Router	10.0.0.4
Sequence Number	0x80000001
LS Age (seconds)	10
LS Type	Summary-LSA (IP network) (3)...
	13 more

Frame 14 | 2020-08-04T22:09:26.862816Z

OSPF LS Request

ID Source OSPF Router	10.0.0.4
Area ID	0.0.0.1
Advertising Router	10.0.0.2
Advertising Router	10.0.0.2
Advertising Router	10.0.0.2
Advertising Router	10.0.0.2

Frame 15 | 2020-08-04T22:09:26.862964Z

OSPF LS Update

ID Source OSPF Router	10.0.0.2
Area ID	0.0.0.1
LS Age (seconds)	29
LS Type	Router-LSA (1)
Router LSA	True
Link State ID	10.0.0.2
Advertising Router	10.0.0.2
Sequence Number	0x80000002
LS Age (seconds)	24
LS Type	Summary-LSA (IP network) (3)
Link State ID	10.0.0.2
Advertising Router	10.0.0.2
Sequence Number	0x80000001
LS Age (seconds)	34
LS Type	Summary-LSA (IP network) (3)...
	8 more

Frame 16 | 2020-08-04T22:09:26.863023Z

OSPF LS Update

ID Source OSPF Router	10.0.0.2
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Frame 17 | 2020-08-04T22:09:27.379723Z

10.0.0.2

AllSPFRouters

R4 (ABR/ASBR)

Area ID	0.0.0.1
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	0x80000003

OSPF LS Update

Source OSPF Router	10.0.0.4
Area ID	0.0.0.1
LS Age (seconds)	1
LS Type	Router-LSA (1)
Router LSA	True
Link State ID	10.0.0.4
Advertising Router	10.0.0.4
Sequence Number	0x80000003

Frame 18 | 2020-08-04T22:09:28.212554Z

OSPF LS Acknowledge

Source OSPF Router	10.0.0.2
Area ID	0.0.0.1
Link State ID	10.0.0.4
Advertising Router	10.0.0.4
Sequence Number	0x80000002
Link State ID	10.0.0.4
Advertising Router	10.0.0.4
Sequence Number	0x80000001
Link State ID	10.3.4.0
Advertising Router	10.0.0.4
Sequence Number	0x80000001
Link State ID	10.3.49.4
Advertising Router	10.0.0.4
Sequence Number	0x80000001
Link State ID	10.4.8.0...
	5 more

Frame 19 | 2020-08-04T22:09:29.370414Z

OSPF LS Acknowledge

Source OSPF Router	10.0.0.4
Area ID	0.0.0.1
Link State ID	10.0.0.2
Advertising Router	10.0.0.2
Sequence Number	0x80000002
Link State ID	10.0.0.2
Advertising Router	10.0.0.2
Sequence Number	0x80000001
Link State ID	10.0.123.0
Advertising Router	10.0.0.2
Sequence Number	0x80000001
Link State ID	10.2.7.0
Advertising Router	10.0.0.2
Sequence Number	0x80000001
Link State ID	10.0.0.2...
	2 more

Frame 20 | 2020-08-04T22:09:29.370464Z

OSPF Hello Packet

Source OSPF Router	10.0.0.4
Area ID	0.0.0.1
Network Mask	0.0.0.0
Hello Interval [sec]	10
Options	0x12, (L) LLS Data block, (E) External Routing
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 21 | 2020-08-04T22:09:31.893103Z

10.0.0.2

AllSPFRouters

R4 (ABR/ASBR)

OSPF Hello Packet

Frame 22 |  
2020-08-04T22:09:36.427825Z

ID	Source OSPF Router	10.0.0.2
🏠	Area ID	0.0.0.1
	Network Mask	0.0.0.0
	Hello Interval [sec]	10
	Options	0x12, (L) LLS Data block, (E) External Routing
	Router Priority	1
	Router Dead Interval [sec]	40
👑	Designated Router	0.0.0.0
👑	Backup Designated Router	0.0.0.0
👤	Active Neighbor	10.0.0.4

OSPF Hello Packet

Frame 23 |  
2020-08-04T22:09:41.375376Z

ID	Source OSPF Router	10.0.0.4
🏠	Area ID	0.0.0.1
	Network Mask	0.0.0.0
	Hello Interval [sec]	10
	Options	0x12, (L) LLS Data block, (E) External Routing
	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

Frame 24 |  
2020-08-04T22:09:46.433731Z

ID	Source OSPF Router	10.0.0.2
🏠	Area ID	0.0.0.1
	Network Mask	0.0.0.0
	Hello Interval [sec]	10
	Options	0x12, (L) LLS Data block, (E) External Routing
	Router Priority	1
	Router Dead Interval [sec]	40
👑	Designated Router	0.0.0.0
👑	Backup Designated Router	0.0.0.0
👤	Active Neighbor	10.0.0.4