

R3 (DR, ABR)

AllSPFRouters

R1 (ABR/ASBR)

R2 (ABR)

AllDRouters

ospfv2_dr_election.pcapng

OSPF Hello Packet

Frame 1 | 2020-08-04T21:31:15.220916Z

Source OSPF Router	10.0.0.3
Area ID	0.0.0.0 (Backbone)
Network Mask	255.255.255.0
Hello Interval [sec]	10
Options	0x12, (L) LLS Data block, (E) External Routing
Router Priority	33
Router Dead Interval [sec]	40
Designated Router	0.0.0.0
Backup Designated Router	0.0.0.0
Active Neighbor	10.0.0.1
Active Neighbor	10.0.0.2

OSPF Hello Packet

Frame 2 | 2020-08-04T21:31:15.290718Z

Source OSPF Router	10.0.0.1
Area ID	0.0.0.0 (Backbone)
Network Mask	255.255.255.0
Hello Interval [sec]	10
Options	0x12, (L) LLS Data block, (E) External Routing
Router Priority	0
Router Dead Interval [sec]	40
Designated Router	0.0.0.0
Backup Designated Router	0.0.0.0
Active Neighbor	10.0.0.2
Active Neighbor	10.0.0.3

OSPF Hello Packet

Frame 3 | 2020-08-04T21:31:15.404534Z

Source OSPF Router	10.0.0.2
Area ID	0.0.0.0 (Backbone)
Network Mask	255.255.255.0
Hello Interval [sec]	10
Options	0x12, (L) LLS Data block, (E) External Routing
Router Priority	0
Router Dead Interval [sec]	40
Designated Router	0.0.0.0
Backup Designated Router	0.0.0.0
Active Neighbor	10.0.0.1
Active Neighbor	10.0.0.3

OSPF Hello Packet

Frame 4 | 2020-08-04T21:31:24.348599Z

Source OSPF Router	10.0.0.3
Area ID	0.0.0.0 (Backbone)
Network Mask	255.255.255.0
Hello Interval [sec]	10
Options	0x12, (L) LLS Data block, (E) External Routing
Router Priority	33
Router Dead Interval [sec]	40
Designated Router	0.0.0.0
Backup Designated Router	0.0.0.0
Active Neighbor	10.0.0.1
Active Neighbor	10.0.0.2

OSPF Hello Packet

Frame 5 | 2020-08-04T21:31:24.540265Z

Source OSPF Router	10.0.0.1
Area ID	0.0.0.0 (Backbone)
Network Mask	255.255.255.0
Hello Interval [sec]	10

R3 (DR, ABR)

AllSPFRouters

R1 (ABR/ASBR)

R2 (ABR)

AllDRouters

Options	0x12, (L) LLS Data block, (E) External Routing
Router Priority	0
Router Dead Interval [sec]	40
👑 Designated Router	0.0.0.0
👑 Backup Designated Router	0.0.0.0
👤 Active Neighbor	10.0.0.2
👤 Active Neighbor	10.0.0.3

👋 OSPF Hello Packet

ID Source OSPF Router	10.0.0.2
🏠 Area ID	0.0.0.0 (Backbone)
Network Mask	255.255.255.0
Hello Interval [sec]	10
Options	0x12, (L) LLS Data block, (E) External Routing
Router Priority	0
Router Dead Interval [sec]	40
👑 Designated Router	0.0.0.0
👑 Backup Designated Router	0.0.0.0
👤 Active Neighbor	10.0.0.1
👤 Active Neighbor	10.0.0.3

📄 OSPF DB Description

ID Source OSPF Router	10.0.0.3
🏠 Area ID	0.0.0.0 (Backbone)
Interface MTU	1500
Options	0x52, (O) Opaque, (L) LLS Data block, (E) External Routing
DB Description	0x07, (I) Init, (M) More, (MS) Master
DD Sequence	6001

📄 OSPF DB Description

ID Source OSPF Router	10.0.0.3
🏠 Area ID	0.0.0.0 (Backbone)
Interface MTU	1500
Options	0x52, (O) Opaque, (L) LLS Data block, (E) External Routing
DB Description	0x07, (I) Init, (M) More, (MS) Master
DD Sequence	2569

📄 OSPF DB Description

ID Source OSPF Router	10.0.0.1
🏠 Area ID	0.0.0.0 (Backbone)
Interface MTU	1500
Options	0x52, (O) Opaque, (L) LLS Data block, (E) External Routing
DB Description	0x07, (I) Init, (M) More, (MS) Master
DD Sequence	9030

📄 OSPF DB Description

ID Source OSPF Router	10.0.0.2
🏠 Area ID	0.0.0.0 (Backbone)
Interface MTU	1500
Options	0x52, (O) Opaque, (L) LLS Data block, (E) External Routing
DB Description	0x07, (I) Init, (M) More, (MS) Master
DD Sequence	3291

📄 OSPF DB Description

ID Source OSPF Router	10.0.0.3
🏠 Area ID	0.0.0.0 (Backbone)
Interface MTU	1500
Options	0x52, (O) Opaque, (L) LLS Data block, (E) External Routing
DB Description	0x07, (I) Init, (M) More, (MS) Master
DD Sequence	2569

📄 OSPF DB Description

ID Source OSPF Router	10.0.0.2
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Frame 6 | 2020-08-04T21:31:24.804683Z

Frame 7 | 2020-08-04T21:31:26.121377Z

Frame 8 | 2020-08-04T21:31:26.121377Z

Frame 9 | 2020-08-04T21:31:26.236305Z

Frame 10 | 2020-08-04T21:31:26.265158Z

Frame 11 | 2020-08-04T21:31:30.937167Z

Frame 12 | 2020-08-04T21:31:30.939157Z

R3 (DR, ABR)

AllSPFRouters

R1 (ABR/ASBR)

R2 (ABR)

AllIDRouters

Area ID	0.0.0.0 (Backbone)
Interface MTU	1500
Options	0x52, (O) Opaque, (L) LLS Data block, (E) External Routing
DB Description	0x02, (M) More
DD Sequence	2569
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	10.2.7.0
Advertising Router	10.0.0.2

[OSPF DB Description](#)

Frame 13 | 2020-08-04T21:31:30.941153Z

Source OSPF Router	10.0.0.3
Area ID	0.0.0.0 (Backbone)
Interface MTU	1500
Options	0x52, (O) Opaque, (L) LLS Data block, (E) External Routing
DB Description	0x01, (MS) Master
DD Sequence	2570
Options	0x22, (DC) Demand Circuits, (E) External Routing
LS Type	Router-LSA (1)
Link State ID	10.0.0.3
Advertising Router	10.0.0.3
Options	0x22, (DC) Demand Circuits, (E) External Routing
LS Type	Summary-LSA (IP network) (3)
Link State ID	10.3.49.3
Advertising Router	10.0.0.3

[OSPF LS Request](#)

Frame 14 | 2020-08-04T21:31:30.942159Z

Source OSPF Router	10.0.0.2
Area ID	0.0.0.0 (Backbone)
Advertising Router	10.0.0.3
Advertising Router	10.0.0.3

[OSPF DB Description](#)

Frame 15 | 2020-08-04T21:31:30.943148Z

Source OSPF Router	10.0.0.2
Area ID	0.0.0.0 (Backbone)
Interface MTU	1500
Options	0x52, (O) Opaque, (L) LLS Data block, (E) External Routing
DB Description	0x00
DD Sequence	2570

[OSPF LS Update](#)

Frame 16 | 2020-08-04T21:31:30.944146Z

Source OSPF Router	10.0.0.3
Area ID	0.0.0.0 (Backbone)
LS Age (seconds)	5
LS Type	Router-LSA (1)
Router LSA	True
Link State ID	10.0.0.3
Advertising Router	10.0.0.3
Sequence Number	0x80000003
LS Age (seconds)	35
LS Type	Summary-LSA (IP network) (3)
Link State ID	10.3.49.3
Advertising Router	10.0.0.3
Sequence Number	0x80000001

[OSPF LS Request](#)

Frame 17 | 2020-08-04T21:31:30.944146Z

Source OSPF Router	10.0.0.3
Area ID	0.0.0.0 (Backbone)
Advertising Router	10.0.0.2
Advertising Router	10.0.0.2

[OSPF LS Update](#)

Frame 18 | 2020-08-04T21:31:30.946156Z

R3 (DR, ABR)

AllSPFRouters

R1 (ABR/ASBR)

R2 (ABR)

AllDRouters

ID Source OSPF Router	10.0.0.2
Area ID	0.0.0.0 (Backbone)
LS Age (seconds)	5
LS Type	Router-LSA (1)
Router LSA	True
Link State ID	10.0.0.2
Advertising Router	10.0.0.2
Sequence Number	0x80000003
LS Age (seconds)	40
LS Type	Summary-LSA (IP network) (3)
Link State ID	10.2.7.0
Advertising Router	10.0.0.2
Sequence Number	0x80000001

OSPF DB Description

ID Source OSPF Router	10.0.0.3
Area ID	0.0.0.0 (Backbone)
Interface MTU	1500
Options	0x52, (O) Opaque, (L) LLS Data block, (E) External Routing
DB Description	0x07, (I) Init, (M) More, (MS) Master
DD Sequence	6001

OSPF DB Description

ID Source OSPF Router	10.0.0.1
Area ID	0.0.0.0 (Backbone)
Interface MTU	1500
Options	0x52, (O) Opaque, (L) LLS Data block, (E) External Routing
DB Description	0x02, (M) More
DD Sequence	6001
Options	0x22, (DC) Demand Circuits, (E) External Routing
LS Type	Router-LSA (1)
Link State ID	10.0.0.1
Advertising Router	10.0.0.1
Options	0x22, (DC) Demand Circuits, (E) External Routing
LS Type	Summary-LSA (IP network) (3)
Link State ID	10.1.5.0
Advertising Router	10.0.0.1
Options	0x22, (DC) Demand Circuits, (E) External Routing...
	3 more

OSPF DB Description

ID Source OSPF Router	10.0.0.3
Area ID	0.0.0.0 (Backbone)
Interface MTU	1500
Options	0x52, (O) Opaque, (L) LLS Data block, (E) External Routing
DB Description	0x01, (MS) Master
DD Sequence	6002
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	Router-LSA (1)
Link State ID	10.0.0.3
Advertising Router	10.0.0.3
Options	0x22, (DC) Demand Circuits, (E) External Routing...
	7 more

OSPF LS Request

ID Source OSPF Router	10.0.0.1
Area ID	0.0.0.0 (Backbone)
Advertising Router	10.0.0.2
Advertising Router	10.0.0.3

Frame 19 | 2020-08-04T21:31:31.037313Z

Frame 20 | 2020-08-04T21:31:31.038308Z

Frame 21 | 2020-08-04T21:31:31.039305Z

Frame 22 | 2020-08-04T21:31:31.040303Z

R3 (DR, ABR)

AllSPFRouters

R1 (ABR/ASBR)

R2 (ABR)

AllDRouters

Advertising Router	10.0.0.2
Advertising Router	10.0.0.3

OSPF DB Description

Source OSPF Router	10.0.0.1
Area ID	0.0.0.0 (Backbone)
Interface MTU	1500
Options	0x52, (O) Opaque, (L) LLS Data block, (E) External Routing
DB Description	0x00
DD Sequence	6002

Frame 23 |
2020-08-04T21:31:31.040303Z

OSPF LS Update

Source OSPF Router	10.0.0.3
Area ID	0.0.0.0 (Backbone)
LS Age (seconds)	6
LS Type	Router-LSA (1)
Router LSA	True
Link State ID	10.0.0.2
Advertising Router	10.0.0.2
Sequence Number	0x80000003
LS Age (seconds)	5
LS Type	Router-LSA (1)
Router LSA	True
Link State ID	10.0.0.3
Advertising Router	10.0.0.3
Sequence Number	0x80000003
LS Age (seconds)	41...
	9 more

Frame 24 |
2020-08-04T21:31:31.041305Z

OSPF LS Request

Source OSPF Router	10.0.0.3
Area ID	0.0.0.0 (Backbone)
Advertising Router	10.0.0.1
Advertising Router	10.0.0.1
Advertising Router	10.0.0.1

Frame 25 |
2020-08-04T21:31:31.041305Z

OSPF LS Update

Source OSPF Router	10.0.0.1
Area ID	0.0.0.0 (Backbone)
LS Age (seconds)	5
LS Type	Router-LSA (1)
Router LSA	True
Link State ID	10.0.0.1
Advertising Router	10.0.0.1
Sequence Number	0x80000003
LS Age (seconds)	40
LS Type	Summary-LSA (IP network) (3)
Link State ID	10.1.5.0
Advertising Router	10.0.0.1
Sequence Number	0x80000001
LS Age (seconds)	40
LS Type	Summary-LSA (IP network) (3)...
	3 more

Frame 26 |
2020-08-04T21:31:31.042303Z

OSPF LS Update

Source OSPF Router	10.0.0.3
Area ID	0.0.0.0 (Backbone)
LS Age (seconds)	6
LS Type	Router-LSA (1)
Router LSA	True
Link State ID	10.0.0.1
Advertising Router	10.0.0.1
Sequence Number	0x80000003
LS Age (seconds)	41

Frame 27 |
2020-08-04T21:31:31.056581Z

R3 (DR, ABR)

AllSPFRouters

R1 (ABR/ASBR)

R2 (ABR)

AllIDRouters

LS Type	Summary-LSA (IP network) (3)
Link State ID	10.1.5.0
Advertising Router	10.0.0.1
Sequence Number	0x80000001
LS Age (seconds)	41
LS Type	Summary-LSA (IP network) (3)...
	3 more

OSPF LS Acknowledge

Source OSPF Router	10.0.0.1
Area ID	0.0.0.0 (Backbone)
Link State ID	10.0.0.1
Advertising Router	10.0.0.1
Sequence Number	0x80000003
Link State ID	10.1.5.0
Advertising Router	10.0.0.1
Sequence Number	0x80000001
Link State ID	10.1.10.0
Advertising Router	10.0.0.1
Sequence Number	0x80000001

OSPF LS Update

Source OSPF Router	10.0.0.3
Area ID	0.0.0.0 (Backbone)
LS Age (seconds)	1
LS Type	Network-LSA (2)
Link State ID	10.0.123.3
Advertising Router	10.0.0.3
Sequence Number	0x80000001

OSPF LS Update

Source OSPF Router	10.0.0.3
Area ID	0.0.0.0 (Backbone)
LS Age (seconds)	1
LS Type	Router-LSA (1)
Router LSA	True
Link State ID	10.0.0.3
Advertising Router	10.0.0.3
Sequence Number	0x80000004

OSPF LS Update

Source OSPF Router	10.0.0.3
Area ID	0.0.0.0 (Backbone)
LS Age (seconds)	2
LS Type	Router-LSA (1)
Router LSA	True
Link State ID	10.0.0.1
Advertising Router	10.0.0.1
Sequence Number	0x80000004

OSPF LS Update

Source OSPF Router	10.0.0.1
Area ID	0.0.0.0 (Backbone)
LS Age (seconds)	1
LS Type	Router-LSA (1)
Router LSA	True
Link State ID	10.0.0.1
Advertising Router	10.0.0.1
Sequence Number	0x80000004

OSPF LS Update

Source OSPF Router	10.0.0.2
Area ID	0.0.0.0 (Backbone)
LS Age (seconds)	1

Frame 28 | 2020-08-04T21:31:31.056581Z

Frame 29 | 2020-08-04T21:31:31.466718Z

Frame 30 | 2020-08-04T21:31:31.649192Z

Frame 31 | 2020-08-04T21:31:31.755246Z

Frame 32 | 2020-08-04T21:31:31.766871Z

Frame 33 | 2020-08-04T21:31:31.782345Z

R3 (DR, ABR)

AllSPFRouters

R1 (ABR/ASBR)

R2 (ABR)

AllIDRouters

LS Type	Router-LSA (1)
Router LSA	True
Link State ID	10.0.0.2
Advertising Router	10.0.0.2
Sequence Number	0x80000004

Frame 34 |
2020-08-04T21:31:31.806501Z

OSPF LS Update

Source OSPF Router	10.0.0.3
Area ID	0.0.0.0 (Backbone)
LS Age (seconds)	2
LS Type	Router-LSA (1)
Router LSA	True
Link State ID	10.0.0.2
Advertising Router	10.0.0.2
Sequence Number	0x80000004

OSPF LS Acknowledge

Frame 35 |
2020-08-04T21:31:33.448536Z

Source OSPF Router	10.0.0.2
Area ID	0.0.0.0 (Backbone)
Link State ID	10.0.0.3
Advertising Router	10.0.0.3
Sequence Number	0x80000003
Link State ID	10.3.49.3
Advertising Router	10.0.0.3
Sequence Number	0x80000001
Link State ID	10.0.0.1
Advertising Router	10.0.0.1
Sequence Number	0x80000003
Link State ID	10.1.5.0
Advertising Router	10.0.0.1
Sequence Number	0x80000001
Link State ID	10.1.10.0...
	8 more

OSPF LS Acknowledge

Frame 36 |
2020-08-04T21:31:33.549857Z

Source OSPF Router	10.0.0.1
Area ID	0.0.0.0 (Backbone)
Link State ID	10.0.0.2
Advertising Router	10.0.0.2
Sequence Number	0x80000003
Link State ID	10.0.0.3
Advertising Router	10.0.0.3
Sequence Number	0x80000003
Link State ID	10.2.7.0
Advertising Router	10.0.0.2
Sequence Number	0x80000001
Link State ID	10.3.49.3
Advertising Router	10.0.0.3
Sequence Number	0x80000001
Link State ID	10.0.123.3...
	8 more

OSPF Hello Packet

Frame 37 |
2020-08-04T21:31:33.614865Z

Source OSPF Router	10.0.0.1
Area ID	0.0.0.0 (Backbone)
Network Mask	255.255.255.0
Hello Interval [sec]	10
Options	0x12, (L) LLS Data block, (E) External Routing
Router Priority	0
Router Dead Interval [sec]	40
Designated Router	10.0.123.3
Backup Designated Router	10.0.123.3
Active Neighbor	10.0.0.2
Active Neighbor	10.0.0.3

R3 (DR, ABR)

AllSPFRouters

R1 (ABR/ASBR)

R2 (ABR)

AllDRouters

OSPF Hello Packet

ID	Source OSPF Router	10.0.0.3
🏠	Area ID	0.0.0.0 (Backbone)
	Network Mask	255.255.255.0
	Hello Interval [sec]	10
	Options	0x12, (L) LLS Data block, (E) External Routing
	Router Priority	33
	Router Dead Interval [sec]	40
👑	Designated Router	10.0.123.3
👑	Backup Designated Router	0.0.0.0
👥	Active Neighbor	10.0.0.1
👥	Active Neighbor	10.0.0.2

Frame 38 |
2020-08-04T21:31:33.827803Z

OSPF Hello Packet

ID	Source OSPF Router	10.0.0.2
🏠	Area ID	0.0.0.0 (Backbone)
	Network Mask	255.255.255.0
	Hello Interval [sec]	10
	Options	0x12, (L) LLS Data block, (E) External Routing
	Router Priority	0
	Router Dead Interval [sec]	40
👑	Designated Router	10.0.123.3
👑	Backup Designated Router	0.0.0.0
👥	Active Neighbor	10.0.0.1
👥	Active Neighbor	10.0.0.3

Frame 39 |
2020-08-04T21:31:34.163638Z

OSPF LS Update

ID	Source OSPF Router	10.0.0.3
🏠	Area ID	0.0.0.0 (Backbone)
	LS Age (seconds)	6
	LS Type	Router-LSA (1)
	Router LSA	True
	Link State ID	10.0.0.1
🚩	Advertising Router	10.0.0.1
📄	Sequence Number	0x80000004

Frame 40 |
2020-08-04T21:31:36.494422Z

OSPF LS Update

ID	Source OSPF Router	10.0.0.3
🏠	Area ID	0.0.0.0 (Backbone)
	LS Age (seconds)	1
	LS Type	Router-LSA (1)
	Router LSA	True
	Link State ID	10.0.0.3
🚩	Advertising Router	10.0.0.3
📄	Sequence Number	0x80000005

Frame 41 |
2020-08-04T21:31:36.651324Z

OSPF LS Update

ID	Source OSPF Router	10.0.0.1
🏠	Area ID	0.0.0.0 (Backbone)
	LS Age (seconds)	1
	LS Type	Router-LSA (1)
	Router LSA	True
	Link State ID	10.0.0.1
🚩	Advertising Router	10.0.0.1
📄	Sequence Number	0x80000005

Frame 42 |
2020-08-04T21:31:36.766545Z

OSPF LS Update

ID	Source OSPF Router	10.0.0.3
🏠	Area ID	0.0.0.0 (Backbone)
	LS Age (seconds)	2
	LS Type	Router-LSA (1)
	Router LSA	True
	Link State ID	10.0.0.1
🚩	Advertising Router	10.0.0.1

Frame 43 |
2020-08-04T21:31:36.776854Z

R3 (DR, ABR)

AllSPFRouters

R1 (ABR/ASBR)

R2 (ABR)

AllIDRouters

Sequence Number	0x80000005
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OSPF LS Update

ID Source OSPF Router	10.0.0.2
Area ID	0.0.0.0 (Backbone)
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	0x80000005

Frame 44 | 2020-08-04T21:31:36.797244Z

OSPF LS Update

ID Source OSPF Router	10.0.0.3
Area ID	0.0.0.0 (Backbone)
LS Age (seconds)	2
LS Type	Router-LSA (1)
Router LSA	True
Link State ID	10.0.0.2
Advertising Router	10.0.0.2
Sequence Number	0x80000005

Frame 45 | 2020-08-04T21:31:36.818865Z

OSPF LS Acknowledge

ID Source OSPF Router	10.0.0.2
Area ID	0.0.0.0 (Backbone)
Link State ID	10.0.0.1
Advertising Router	10.0.0.1
Sequence Number	0x80000004
Link State ID	10.0.0.3
Advertising Router	10.0.0.3
Sequence Number	0x80000005

Frame 46 | 2020-08-04T21:31:39.000109Z

OSPF LS Acknowledge

ID Source OSPF Router	10.0.0.1
Area ID	0.0.0.0 (Backbone)
Link State ID	10.0.0.3
Advertising Router	10.0.0.3
Sequence Number	0x80000005
Link State ID	10.0.0.2
Advertising Router	10.0.0.2
Sequence Number	0x80000005

Frame 47 | 2020-08-04T21:31:39.159374Z

OSPF LS Update

ID Source OSPF Router	10.0.0.3
Area ID	0.0.0.0 (Backbone)
LS Age (seconds)	6
LS Type	Router-LSA (1)
Router LSA	True
Link State ID	10.0.0.1
Advertising Router	10.0.0.1
Sequence Number	0x80000005

Frame 48 | 2020-08-04T21:31:41.488973Z

OSPF Hello Packet

ID Source OSPF Router	10.0.0.1
Area ID	0.0.0.0 (Backbone)
Network Mask	255.255.255.0
Hello Interval [sec]	10
Options	0x12, (L) LLS Data block, (E) External Routing
Router Priority	0
Router Dead Interval [sec]	40
Designated Router	10.0.123.3
Backup Designated Router	0.0.0.0
Active Neighbor	10.0.0.2
Active Neighbor	10.0.0.3

Frame 49 | 2020-08-04T21:31:42.792052Z

R3 (DR, ABR)

AllSPFRouters

R1 (ABR/ASBR)

R2 (ABR)

AllIDRouters

OSPF Hello Packet

ID	Source OSPF Router	10.0.0.3
🏠	Area ID	0.0.0.0 (Backbone)
	Network Mask	255.255.255.0
	Hello Interval [sec]	10
	Options	0x12, (L) LLS Data block, (E) External Routing
	Router Priority	33
	Router Dead Interval [sec]	40
👑	Designated Router	10.0.123.3
👑	Backup Designated Router	0.0.0.0
👥	Active Neighbor	10.0.0.1
👥	Active Neighbor	10.0.0.2

Frame 50 |
2020-08-04T21:31:43.300061Z

OSPF LS Update

ID	Source OSPF Router	10.0.0.3
🏠	Area ID	0.0.0.0 (Backbone)
	LS Age (seconds)	1
	LS Type	Router-LSA (1)
	Router LSA	True
	Link State ID	10.0.0.3
🚩	Advertising Router	10.0.0.3
1 2 3 4	Sequence Number	0x80000006

Frame 51 |
2020-08-04T21:31:43.301057Z

OSPF LS Update

ID	Source OSPF Router	10.0.0.2
🏠	Area ID	0.0.0.0 (Backbone)
	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
1 2 3 4	Sequence Number	0x80000006

Frame 52 |
2020-08-04T21:31:43.302064Z

OSPF LS Update

ID	Source OSPF Router	10.0.0.3
🏠	Area ID	0.0.0.0 (Backbone)
	LS Age (seconds)	2
	LS Type	Router-LSA (1)
	Router LSA	True
	Link State ID	10.0.0.2
🚩	Advertising Router	10.0.0.2
1 2 3 4	Sequence Number	0x80000006

Frame 53 |
2020-08-04T21:31:43.335623Z

OSPF Hello Packet

ID	Source OSPF Router	10.0.0.2
🏠	Area ID	0.0.0.0 (Backbone)
	Network Mask	255.255.255.0
	Hello Interval [sec]	10
	Options	0x12, (L) LLS Data block, (E) External Routing
	Router Priority	0
	Router Dead Interval [sec]	40
👑	Designated Router	10.0.123.3
👑	Backup Designated Router	0.0.0.0
👥	Active Neighbor	10.0.0.1
👥	Active Neighbor	10.0.0.3

Frame 54 |
2020-08-04T21:31:43.673322Z

OSPF LS Acknowledge

ID	Source OSPF Router	10.0.0.2
🏠	Area ID	0.0.0.0 (Backbone)
	Link State ID	10.0.0.1
🚩	Advertising Router	10.0.0.1
1 2 3 4	Sequence Number	0x80000005
	Link State ID	10.0.0.3
🚩	Advertising Router	10.0.0.3

Frame 55 |
2020-08-04T21:31:43.991781Z

R3 (DR, ABR)

AllSPFRouters

R1 (ABR/ASBR)

R2 (ABR)

AllDRouters

Sequence Number 0x80000006

OSPF LS Acknowledge

ID Source OSPF Router	10.0.0.1
Area ID	0.0.0.0 (Backbone)
Link State ID	10.0.0.3
Advertising Router	10.0.0.3
Sequence Number	0x80000006
Link State ID	10.0.0.2
Advertising Router	10.0.0.2
Sequence Number	0x80000006

Frame 56 | 2020-08-04T21:31:45.805602Z

OSPF Hello Packet

ID Source OSPF Router	10.0.0.1
Area ID	0.0.0.0 (Backbone)
Network Mask	255.255.255.0
Hello Interval [sec]	10
Options	0x12, (L) LLS Data block, (E) External Routing
Router Priority	0
Router Dead Interval [sec]	40
Designated Router	10.0.123.3
Backup Designated Router	0.0.0.0
Active Neighbor	10.0.0.2
Active Neighbor	10.0.0.3

Frame 57 | 2020-08-04T21:31:52.65921Z

OSPF Hello Packet

ID Source OSPF Router	10.0.0.3
Area ID	0.0.0.0 (Backbone)
Network Mask	255.255.255.0
Hello Interval [sec]	10
Options	0x12, (L) LLS Data block, (E) External Routing
Router Priority	33
Router Dead Interval [sec]	40
Designated Router	10.0.123.3
Backup Designated Router	0.0.0.0
Active Neighbor	10.0.0.1
Active Neighbor	10.0.0.2

Frame 58 | 2020-08-04T21:31:52.945701Z

OSPF Hello Packet


ID Source OSPF Router	10.0.0.2
Area ID	0.0.0.0 (Backbone)
Network Mask	255.255.255.0
Hello Interval [sec]	10
Options	0x12, (L) LLS Data block, (E) External Routing
Router Priority	0
Router Dead Interval [sec]	40
Designated Router	10.0.123.3
Backup Designated Router	0.0.0.0
Active Neighbor	10.0.0.1
Active Neighbor	10.0.0.3

Frame 59 | 2020-08-04T21:31:53.351552Z


OSPF Hello Packet


ID Source OSPF Router	10.0.0.3
Area ID	0.0.0.0 (Backbone)
Network Mask	255.255.255.0
Hello Interval [sec]	10
Options	0x12, (L) LLS Data block, (E) External Routing
Router Priority	33
Router Dead Interval [sec]	40
Designated Router	10.0.123.3
Backup Designated Router	0.0.0.0

Frame 60 | 2020-08-04T21:32:02.181814Z

 R3 (DR, ABR)

 AllSPFRouters

 R1
(ABR/ASBR)

 R2 (ABR)

 AllDRouters

 Active Neighbor	10.0.0.1
 Active Neighbor	10.0.0.2