

OSPFv2 Cheat Sheet

OSPF Administrative Distance (Preference)

Cisco	110
Nokia	10 (Internal) 150(External)
Huawei	10 (Internal) 150(External)
Juniper	10 (Internal) 150(External)

OSPF Router Types

Internal R.	Router in a Single Area
Backbone R.	Routers in Area 0
ABR	Routers connected to multiple areas
ASBR	Routers connected to another Autonomous System

OSPF General

Uses **Dijkstra's** SPF Algorithm

Link State Routing Protocol

Classless Routing Protocol

Open and Standard Protocol

PacketTypes

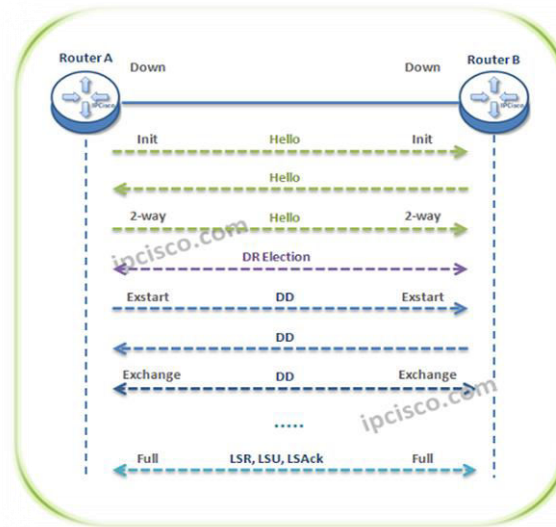
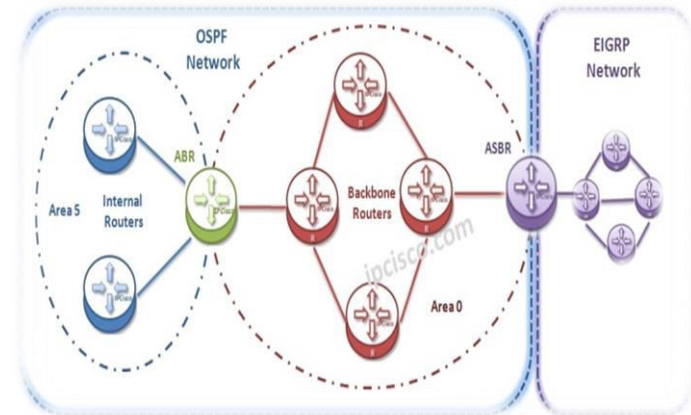
Hello
DBD
LSR
LSU
LSAck

OSPF Tables

Neighbor Table
Topology Table
Routing Table

OSPF Network Types

Broadcast (Cisco)
NBMA (Nonbroadcast Multi Access)
Point-to-Point (Cisco)
Point-to-Multipoint
Point-to-Multipoint Non Broadcast

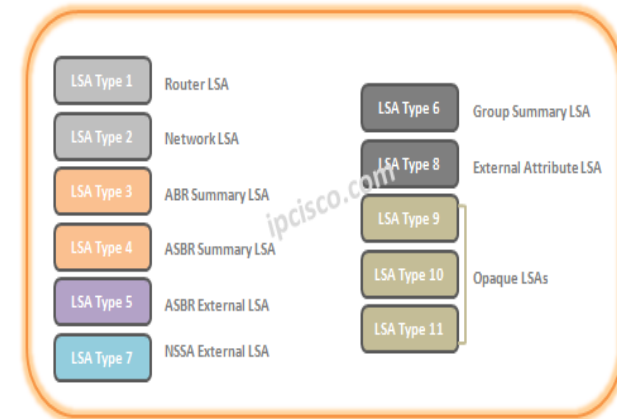


OSPF Area Types

Standard Area
Backbone Area (Area 0)
Stub Area
NSSA (Not So Stubby Area)
Totally Stub Area
Totally NSSA

OSPF Routing Table Abbreviations

O	Intra area route
O IA	Inter area route
O E1 / E2	External routes
O N1/N2	NSSA routes
E1	= Cost to ASBR + Advertised External Cost
E2	= Advertised External Cost



OSPF Multicast Addresses

224.0.0.5	All Routers
224.0.0.6	All DRs



Version	Packet Type	Authentication Type
Router ID		
Area ID		
Checksum	Authentication Type	
Authentication		
Authentication		

Packet Type	Code	Value
Hello	0000 0001	1
DBD	0000 0010	2
LSR	0000 0011	3
LSU	0000 0100	4
LSAck	0000 0101	5