

ISIS Cheat Sheet

ISIS General

Link State Routing Protocol

Classless Routing Protocol

Open and Standard Protocol

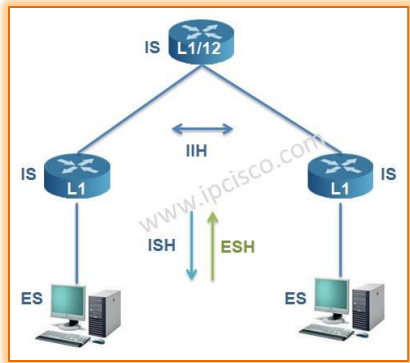
Hierarchical, uses Areas.

It uses Cost for path calculation.

Supports both CLNP and IP.

Uses Dijkstra's SPF Algorithm

Uses DIS to reduce adjacencies.



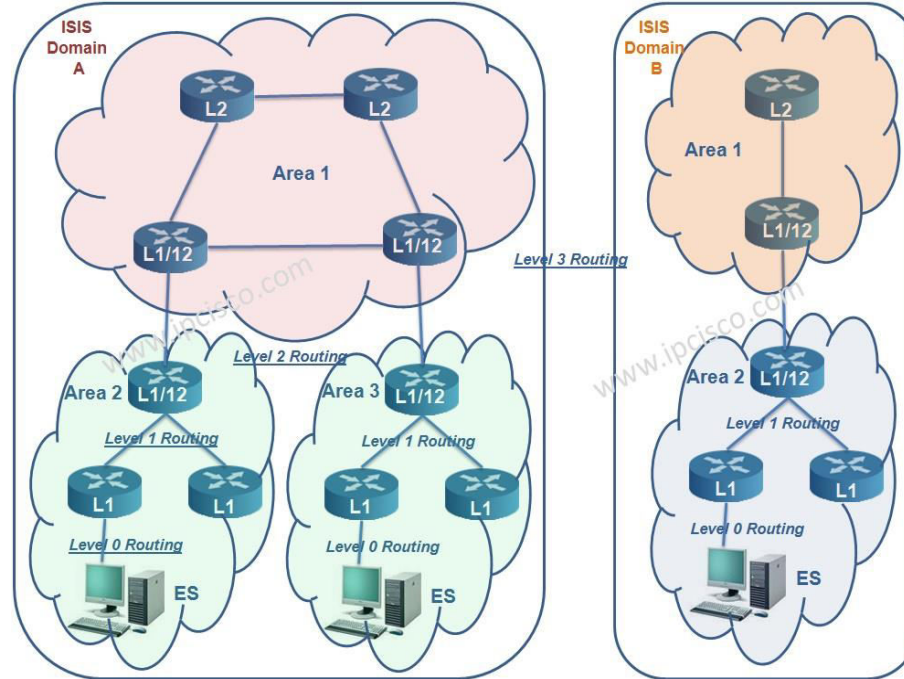
IS-IS Packets

IS-IS Hello PDU (IIH)

Link State PDU (LSP)

Partial Sequence Number PDU (PSNP)

Complete Sequence Number PDU (CSNP)



ISIS Routing Levels

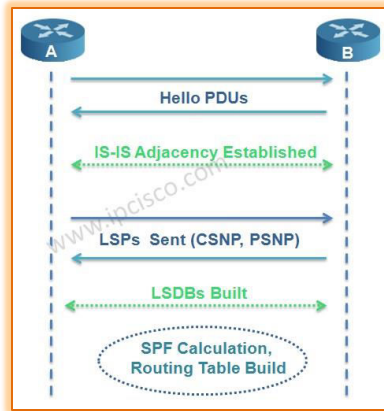
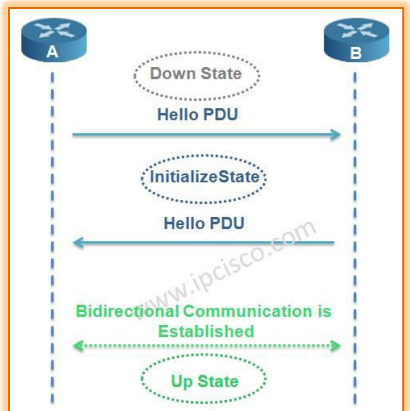
Level 0 Between ESs and ISs on the same subnet.

Level 1 Between ISs within the same area.

Level 2 Between different areas in same domain.

Level 3 Between the separate ISIS domains.

Intra Domain Routing Protocol Discriminator	
Length	
Version / Protocol ID	
ID Length	
Reserved	PDU Type
Version	
Reserved	
Max Area Addresses	
PDU Specific Fields	
TLVs	



IS-IS Versions

IS-IS

ISO-IGRP

Integrated IS-IS

ISIS for IPv6

ISIS Router Types

Level 1 Router

Level 2 Router

Level 1/2 Router

Area Address		System ID	SEL
AFI	IDI	HODSP	0123.abcd.aaaa 00
49	0115.125a.ab44.1234	1111	0123.abcd.aaaa 00