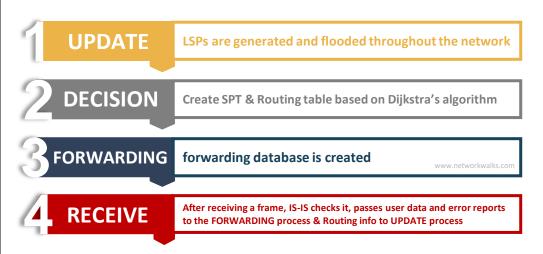
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IS-IS Routing Process



IS-IS Hello **Types ESH 2** ISH 3 IIH (IS Hello) (IS to IS Hello) (ES Hello) Sent by ES to an IS Sent by IS to an ES Sent between two ISs

IS-IS Tables

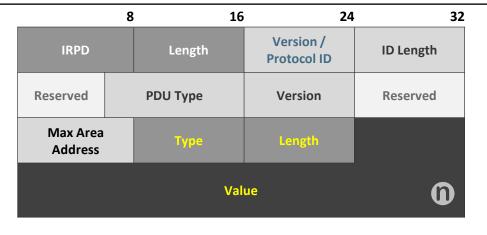
Best Routes

All Adjacent Routers List

networks in same area)

LSA's Table (complete info about the

IS-IS Packet Format



IKPU	Length	Protocol ID	ID Length			
Reserved	PDU Type	Version	Reserved	IS-IS Route Types ①		
Max Area	Туре	Length		i*	IS-IS Default Route	
Address	1,000			i L1	IS-IS Level-1 Route	
Value		M	i L2	IS-IS Level-2 Route		
			W	i su	IS-IS Summary Route	www.networkwalks.com
						,

L2 Header	IS-IS Header	IS-IS Data
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IS-IS DIS (DR) Election

- 1. Highest Interface Priority (Default interface priority = 64)
- 2. Highest SNPA (MAC/DLCI)
- 3. Highest System-ID

NEIGHBOUR Table

TOPOLOGY Table

ROUTING Table



IS-IS Rules to find best Route

- ✓ Internal paths are always preferred over External paths
- ✓ Level-1 paths within the area are preferred over Level-2 paths outside the area
- ✓ If there is no path, the forwarding database sends the packet to the nearest Level-2 Router

Other IS-IS Intervals Timer/Interval LS AGING 1,200 sec or 20 min (counts down) LS REFRESH Every 15 min F DELAY /HOLDTIME 5.5 sec / 10 sec









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