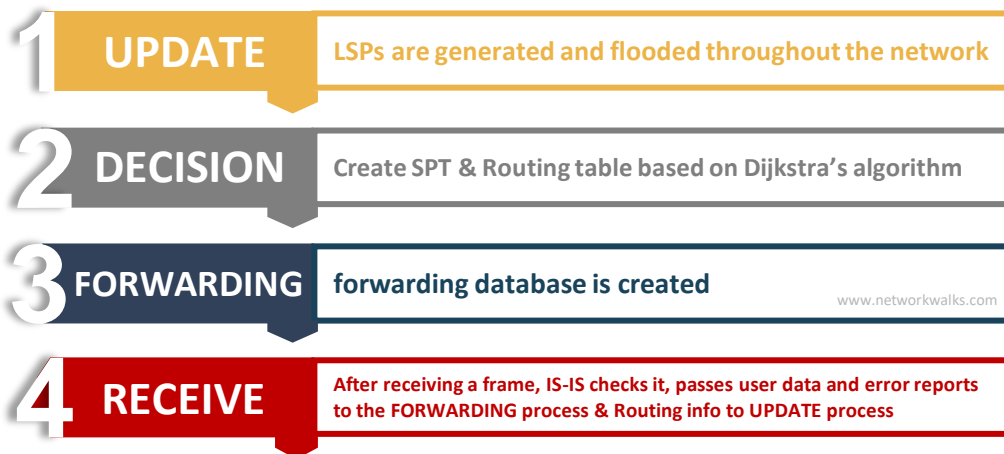
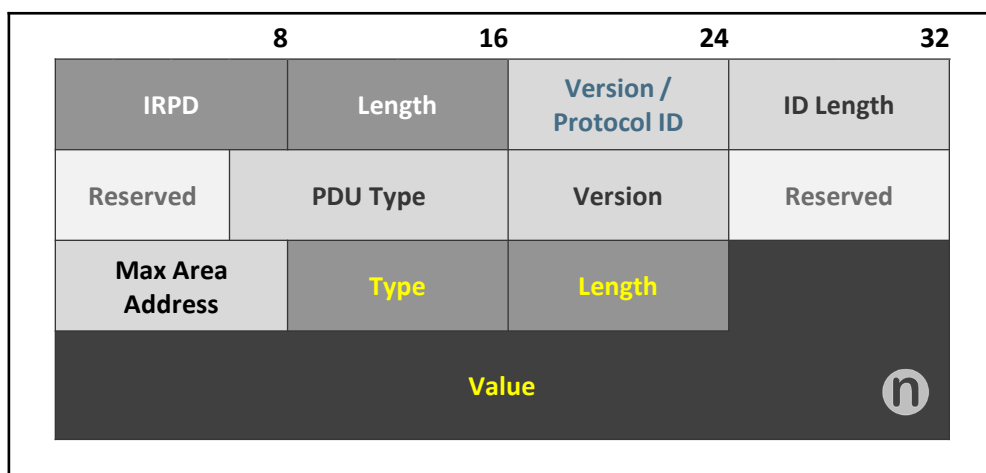


## IS-IS Routing Process



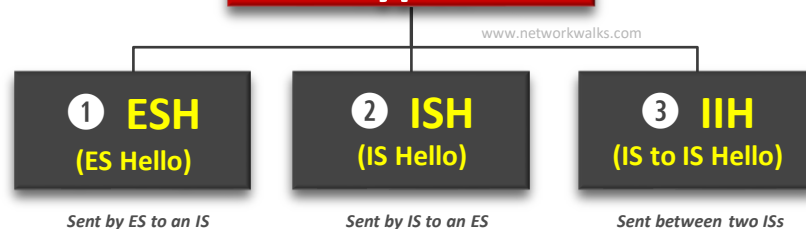
## IS-IS Packet Format



### 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

### IS-IS Hello Types



### IS-IS Tables

<b>NEIGHBOUR Table</b>	All Adjacent Routers List
<b>TOPOLOGY Table</b>	LSA's Table (complete info about the networks in same area)
<b>ROUTING Table</b>	Best Routes

### IS-IS Route Types

<b>i*</b>	IS-IS Default Route
<b>i L1</b>	IS-IS Level-1 Route
<b>i L2</b>	IS-IS Level-2 Route
<b>i su</b>	IS-IS Summary Route

### IS-IS DIS (DR) Election

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

### Other IS-IS Intervals

Timer/Interval	Value
<b>LS AGING</b>	1,200 sec or 20 min (counts down)
<b>LS REFRESH</b>	Every 15 min
<b>SPF DELAY /HOLDTIME</b>	5.5 sec / 10 sec