## **IS-IS Routing Protocol – Cheatsheet – Part-3**



# **IS-IS Neighborship Rules**

For two Routers (IS) to become IS-IS neighbors:

- Interface MTUs must match 1.
- 2. Levels must match
- 3. Areas must match in case of Level-1
- System IDs must not be repeated 4.
- 5. Authentication must succeed



### **IS-IS L2 Multicast Addresses**

01-80-C2-00-00-14	L1 IS's for IS-IS Adjacencies
01-80-C2-00-00-15	L2 IS's for IS-IS Adjacencies
09-00-2B-00-00-04	By IS for ES-IS Adjacencies
09-00-2B-00-00-05	By ES for ES-IS Adjacencies

#### **IS-IS Adjacency Rules** n

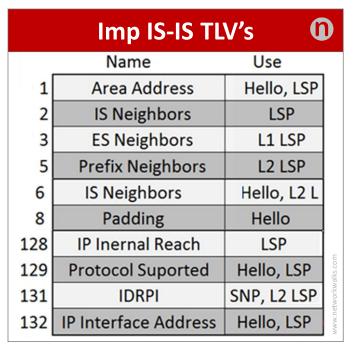
- ✓ Two L1-only Routers form an L1 adjacency only if their AIDs match
- Two L2-only Routers from an L2 adjacency, even if their AIDs are different
- An L1-only Router forms an L1 adjacency with an L1/L2 Router only if their AIDs match
- An L2-only Router forms an L2 adjacency with an L1/L2 Router even if their AIDs mismatch  $\checkmark$
- Two L1/L2 Routers form both L1 and L2 adjacencies if their AIDs match
- Two L1/L2 Routers form only L2 adjacency if their AIDs do not match



## **IS-IS Adjacency Rules** Area 10 Area 10 L1 L2 Area 10 Area 10 L2



/NetworkWalks



### **IS-IS Network (Interface) Types**

Network / Int Type	Detail
POINT-to-POINT	<ul> <li>No DIS Election on P-P Interfaces</li> <li>Point-to-point IIHs are exchanged</li> <li>Both sides of a link should be P-P type</li> </ul>
BROADCAST	<ul> <li>DIS is elected</li> <li>Level 1 or Level 2 LAN IIHs are exchanged</li> <li>All sides of segment should be BCast type, otherwise adjacency will not come UP</li> <li>Default Network Type of IS-IS</li> </ul>

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