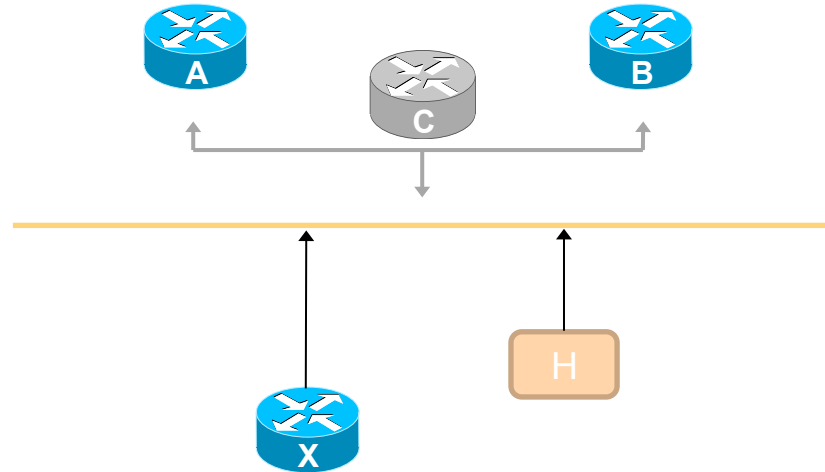


Summary

- Issued adoption call for draft-zhou-pim-vrrp.
- During that adoption call, authors of **draft-xu-pim-drpriority-auto-adjustment** said hold on, time-out, there's an overlap with their draft. Overlap is with aligning vrrp with pim.
- **draft-xu-pim-drpriority-auto-adjustment** wasn't accepted as a wg item at the time, no strong interest in the group.

VRRP PIM INTEROPERABILITY



- Router A & B running VRRP and appear as a virtual router C to downstream devices.
- Make PIM interoperate with VRRP to provide ipmulticast forwarding redundancy capability upon VRRP failover.
- The mechanism works independently of VRRP event type that triggers failover.

- Works independently of the VRRP event types that trigger failover.
- Tracking and failover:
 1. PIM DR auto-adjustment to make VRRP Master PIM DR upon VRRP failover.
 2. PIM Assert metric auto-adjustment to make VRRP Master Assert winner.
 3. PIM Bidir DF metric auto-adjustment to make VRRP Master Designated Forwarder.
 4. Triggering downstream router to re-send PIM Joins upon failover: send additional PIM Hello with new GenID, or, maintain mroute states on all VRRP routers.
- Tracking multiple VRRP groups on same interface
- Support of HSRP

PIM-SM DR Priority Auto-Adjustment

draft-xu-pim-drpriority-auto-adjustment-04

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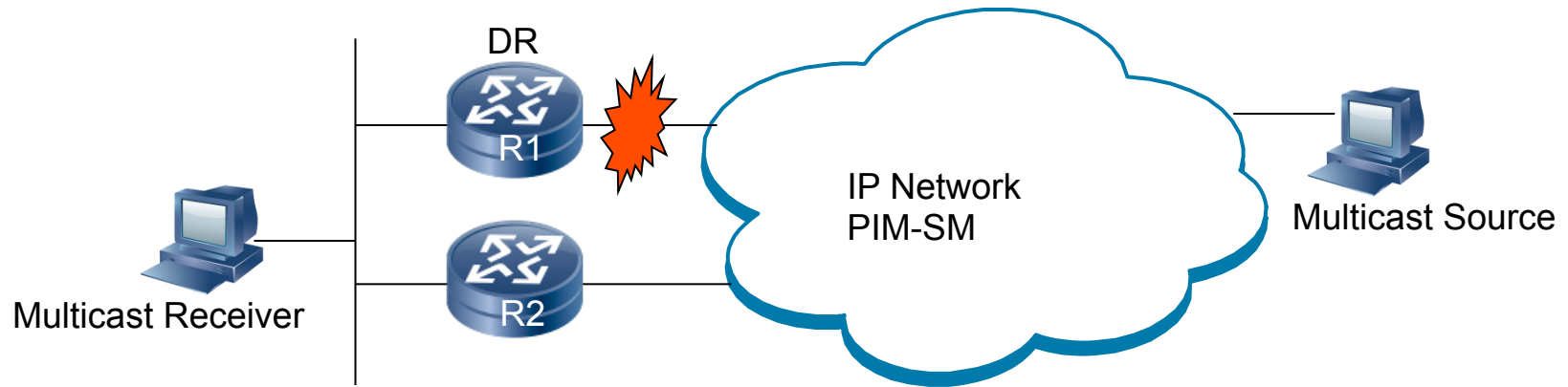
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Problem and Solution Overview



- **Problem:**

- When a last-hop or first-hop PIM DR loses the connectivity to multicast sources or RPs (e.g., due to upstream link failure), DR failover can not happen automatically.

- **Solutions:**

- PIM DR should quit the DR role by decreasing its DR priority once it loses the connectivity to RPs or multicast sources.
- Or PIM DR election is associated with the VRRP election (e.g., to make the PIM DR and the VRRP master always run on the same router).

Next-Step

- We co-authors believe draft-zhou-pim-vrrp has some overlap with this draft which has been presented in several previous PIM WG meetings. Therefore we want the WG to consider merging these two documents.

Next-Step – according to Mike

The WG:

- **Decides if its interested in the earlier draft**
 - If not, we proceed with draft-zhou-pim-vrrp adoption call
- **If interested we either:**
 - Adopt and progress both drafts. One as problem statement, the other as protocol work.
 - Reference earlier draft in draft-zhou-pim-vrrp
 - Merge drafts into new draft.

What say you?