Multicast Redundant Ingress Router Failover

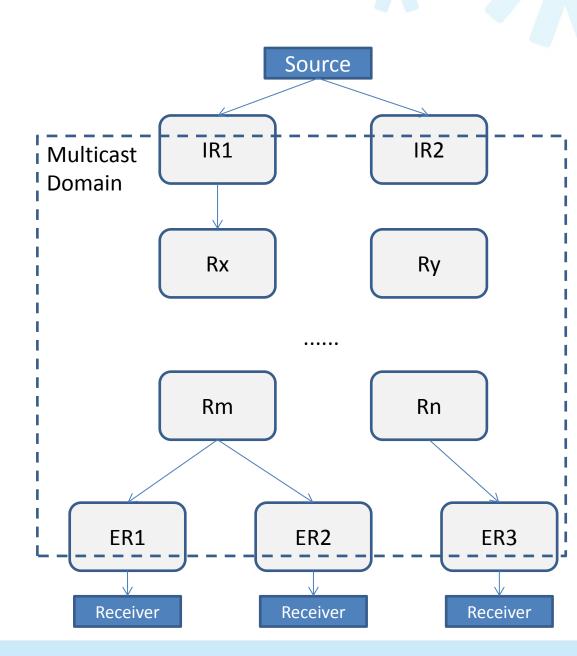## draft-szcl-mboned-redundant-ingress-failover-01

MBONED WG

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Brief introduction

- Two IRs are used to avoid single node failure. The two IRs are UMH candidates for ERs.

- For PIM/BIER/P2MP TE tunnel/MLDP, different functions can be used.

- Three standby modes can be deployed for IR switchover in case of IR's failure.

- The cost and influence of the three modes are different. The network administrator should select the appropriate mode.
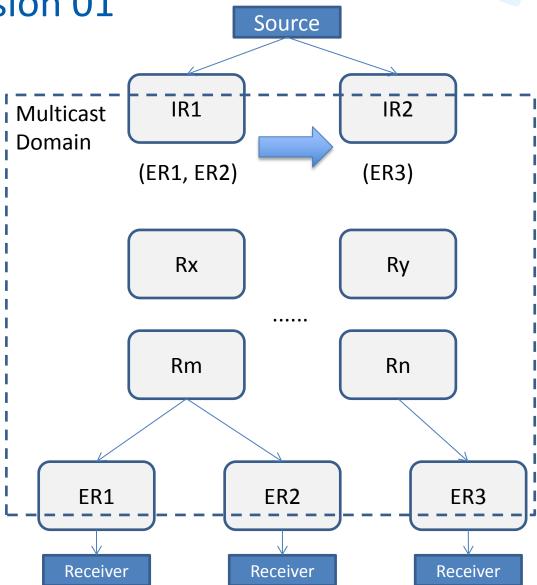
Minor update of version 01

In some deployments of warm standby mode, the IRs may in charge of different multicast flows. Or the IRs may in charge of different ERs for one specific flow. The IRs can be backup device for each other.

In case one IR fails, the IR may notify the other IR to forward the flow to the ERs.

For example for one specific flow, IR1 is in charge of ER1 and ER2, IR2 is in charge of ER3. When IR1 fails, IR1 may notify IR2 the flow and the ERs, then IR2 will send the flow to ER1, ER2 and ER3.

Source

Multicast Domain

IR1
(ER1, ER2)

IR2
(ER3)

Rx

Ry

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Rm

Rn

ER1

ER2

ER3

Receiver

Receiver

Receiver

- Comments are welcomed ☺
- WG adoption?

Thanks!