

Exit path selection for multihomed sites

draft-bagnulo-shim6-ingress-filtering-00

shim6 meeting

IETF66- Montreal

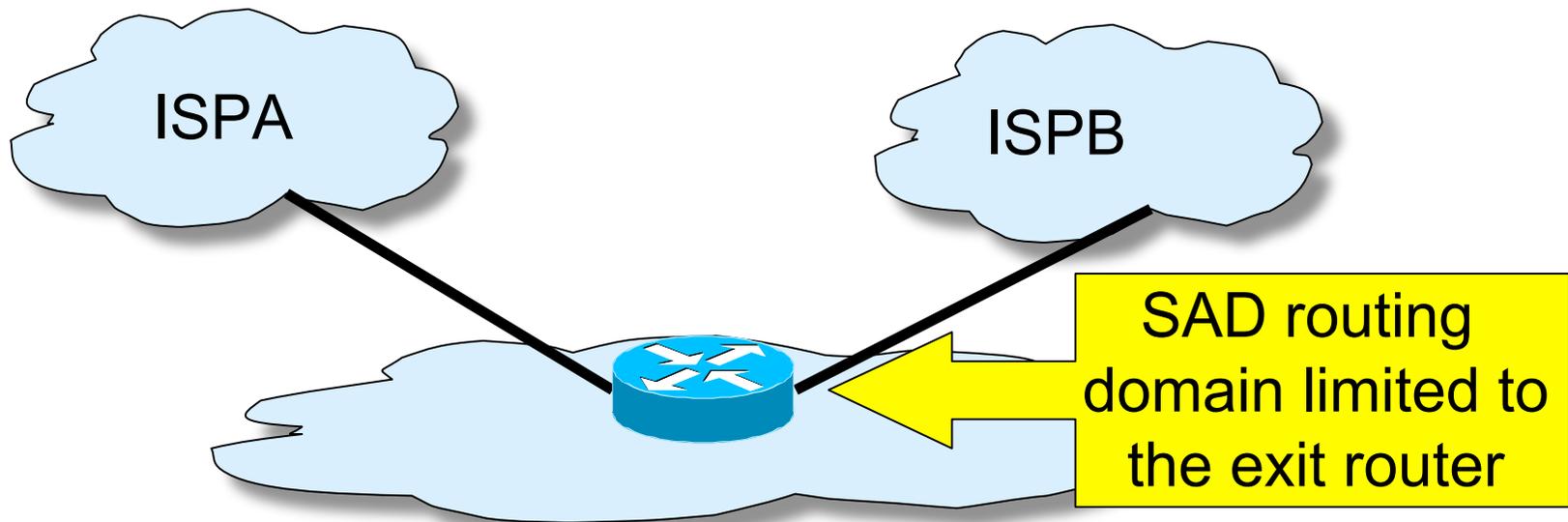
Marcelo Bagnulo

Site Exit Path selection

- Two motivations for empowering the multihomed host to select the site exit path
 - Provide ingress filtering compatibility
 - The selection of the source address determines the exit path to be used to route the packets
 - Enable the host to try different site exit routes
 - The shim6 protocol assumes that changing the address pair implies changing the path used
 - For the site exit path, changing the source address should imply changing the site exit
- Some form of Source Address Dependent (SAD) routing within the multihomed site
 - The proposed mechanism work with legacy hosts

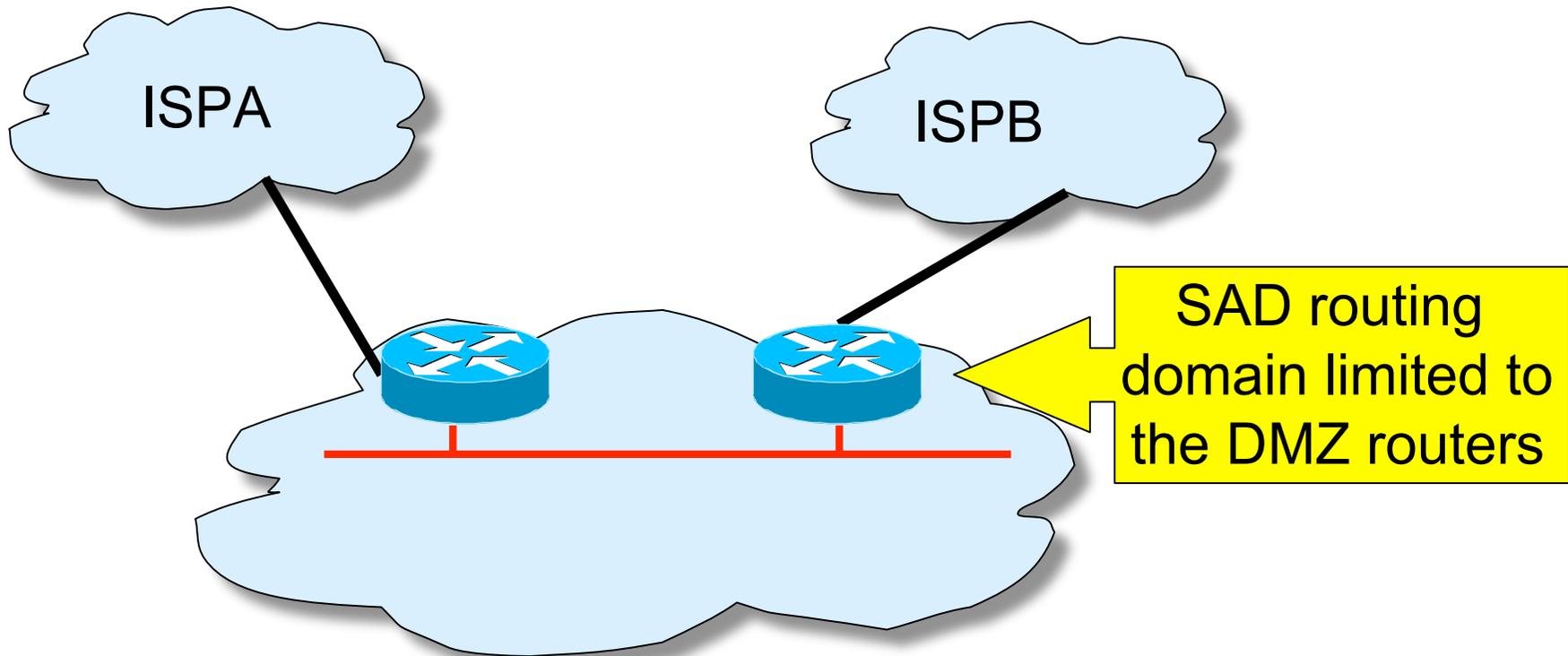
Cases for SAD routing

1 - Single Exit router



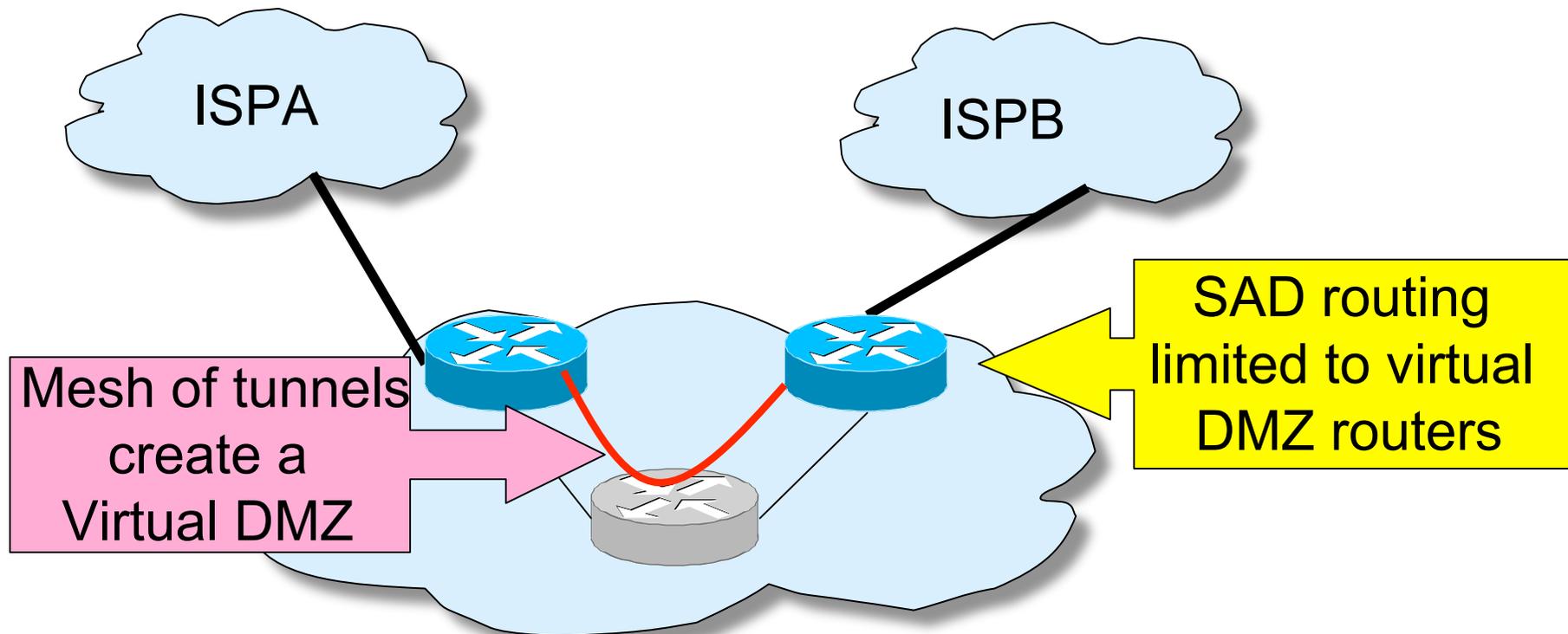
Cases for SAD routing

2 - DMZ



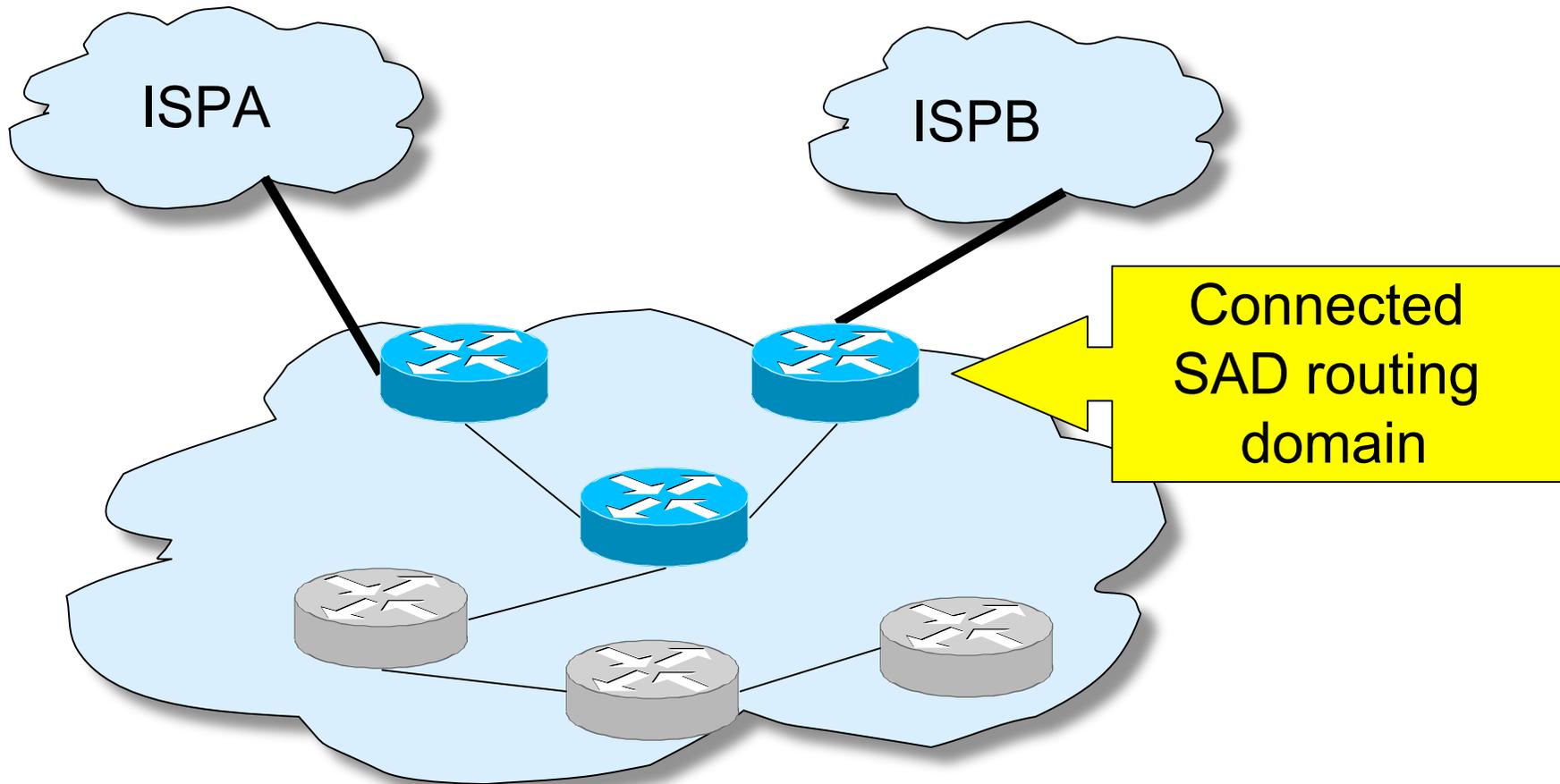
Cases for SAD routing

3 - Virtual DMZ



Cases for SAD routing

4 - General case



Shim6 Charter

- The shim6 WG is specifically chartered to work on:
- Solutions for site exit router selection that work when each ISP uses ingress filtering, i.e. when the chosen site exit needs to be related to the source address chosen by the host. This site exit router selection and the associated address selection process should work whether or not the peer site supports the shim6 protocol.