

## R&S Quick Notes ? Multicast & IPv6

**Multicast**] - BSR is also commonly referred to as PIMv2. - Pay special attention to when using Frame-Relay non-broadcast types. Multicast will not work. Tunnels might be needed. - BSR ? when multiple c-RP announces same groups, a longer match will be used to determine the RP, regardless of the RP priority set. - With TTL scoping, if the Packet TTL >= Interface TTL, then the packet is forwarded, else dropped. - GRE-tunnel -&#160; If the unicast source is reachable via tunnel, a RPF failure will occur. Correct with Mroute. - Know how to spot RPF failures. - Multicast Filtering: 1. Q ? Prevent PIM neighbor establishments, but allow IGMP&#160; client joins? A ? On Central router : ?ip pim neighbors filter? & the Stub router : ?ip igmp helper-address? 2. Q ? Filter specific multicast groups, while still allowing IGMP traffic? A ? ?ip multicast boundary {acl}? 3. Q ? Deny clients from joining specific multicast groups? A ? ?ip igmp access-group {acl}? 4. Q ? Statically filter RP requests and responses, (no Auto-RP, no BSR)? A ? ?ip pim rp address {IP} {acl}? 5. Q ? Client RP filtering, Limit join/prune messages for specific RP's? A ? ?ip pim accept-rp {RP-IP/auto-RP} {acl}? 6. Q ? Auto-RP ? Limit the Candidate-RP's announcements? A ? ?ip pim send-rp-announce {int} scope {no} group-list {acl}? 7. Q ? Auto-RP ? Limit what mgroups a MA accept from specific RP's? A ? ?ip pim rp-announce-filter rp-list {acl} group-list {acl}? 8. Q ? Filter the BSR messages on a interface? A ? ?ip pim bsr-border? 9. Q ? Limit the amount of multicast routes in the mrouting table? A ? ?ip multicast route-limit? 10. Q ? Limit the rate a source can sent traffic to a group on a interface? A ? ?ip multicast rate-limit group-list {acl} {kbps}? **IPv6**] - RIPng ? ?no ip split-horizon? in a process command not a interface command. - EIGRPv6 ? Do not forget to enable eigrp under the process. - IPv6 tunnel method with least overhead : IPv6IP - Tunnel protocol numbers for ACL's : IPv6IP = Protocol-41,&#160; &#160; GRE IPv6 = Protocol-47 - You can not redistribute a default static route(::/0) with ospfv3. - Dynamic information (ie IGP next-hops)&#160; recurses to remote link-local address, not the global unicast interface.