

IP over Intentionally Partially Partitioned Links (IPPL)

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- IPPL examples: split-horizon, private VLANs
- Protocol issues
 - Proxy-ARP and ACD (RFC5227) requires care
 - ARP request from one router answered by other rtr?
 - Proxy-DAD (RFC6957) works even with dual routers
 - RA with L=0 works for global addresses
 - Forward link-locals with dual routers?
 - Multicast from isolated or community ports?

Q: Should this be an intarea WG document?

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Intentionally Partially Partitioned?

- Looks to IPv4/6 as a link; has subnet prefix
- Doesn't forward packets at L2 uniformly
 - Typically hosts can talk to routers but not H-2-H
- Several examples
 - Split horizon for DSL (TR-101)
 - Private VLANs (RFC 5517)
- Private VLANs is superset
 - Promiscuous, community and isolated ports
 - Allows multiple promisc i.e. multiple routers

Protocol issues

- ARP
 - Proxy-ARP and ACD (RFC 5227) requires care
 - ARP request from one router answered by other rtr?
- IPv6/ND
 - Proxy-DAD (RFC6957) works even with dual routers
 - RA with L=0 works for global addresses
 - Forward link-locals with dual routers??
- Multicast from isolated or community ports?
 - Forward down to receivers without duplicates?

Q: Should this be an intarea WG document?