

Proxy MIP6 indication/Discovery

I-D: draft-damic-6man-pmip6-ind

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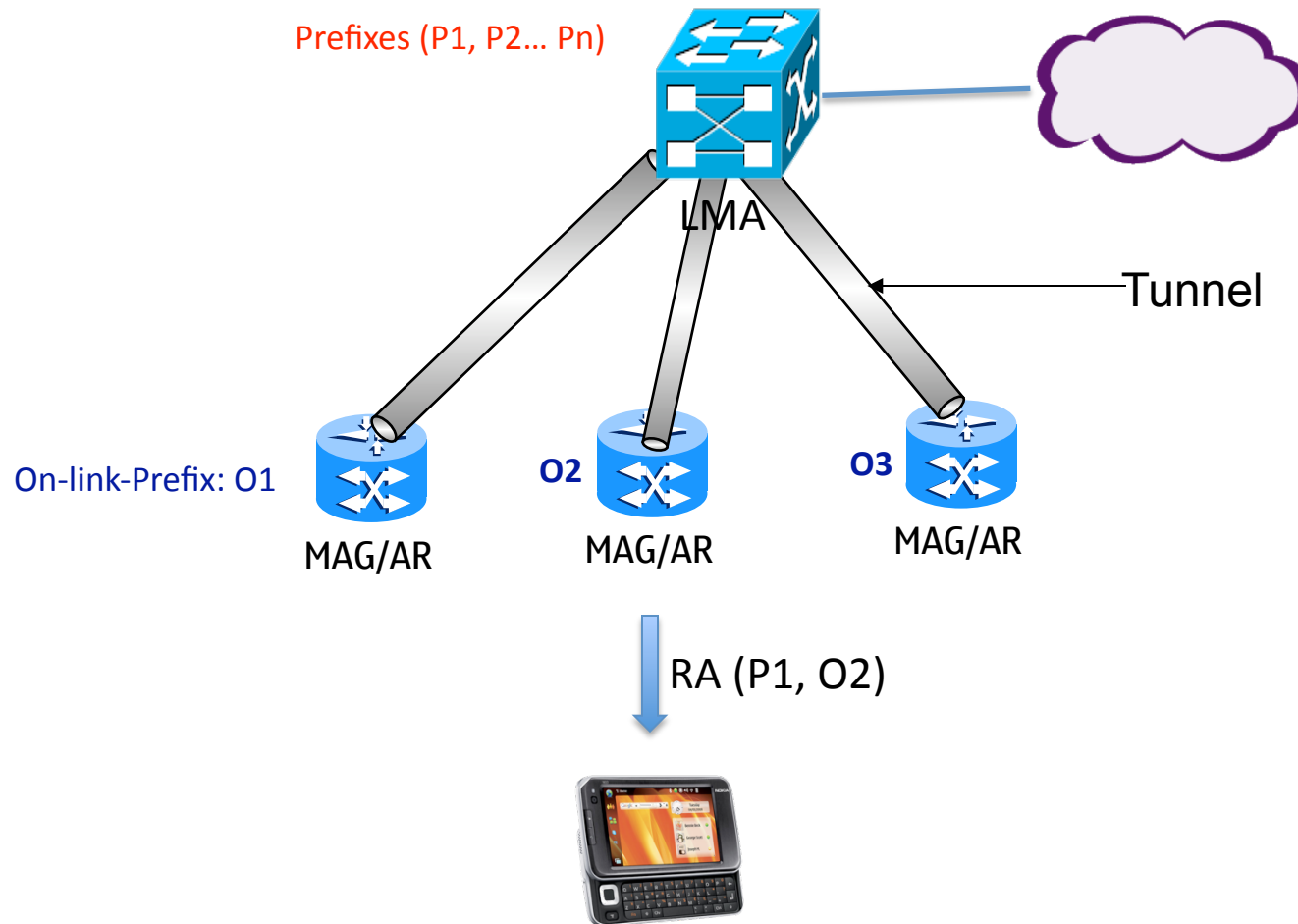
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Problem statement

- Proxy Mobile IPv6 [RFC5213] enables the advertisement of a prefix(es), by an Access Router (MAG), which is topologically anchored elsewhere (LMA)
- A Host which receives such an RA has no awareness of the prefix characteristics
 - Proposal is to qualify the prefix type sent in an RA

RAs sent by a MAG

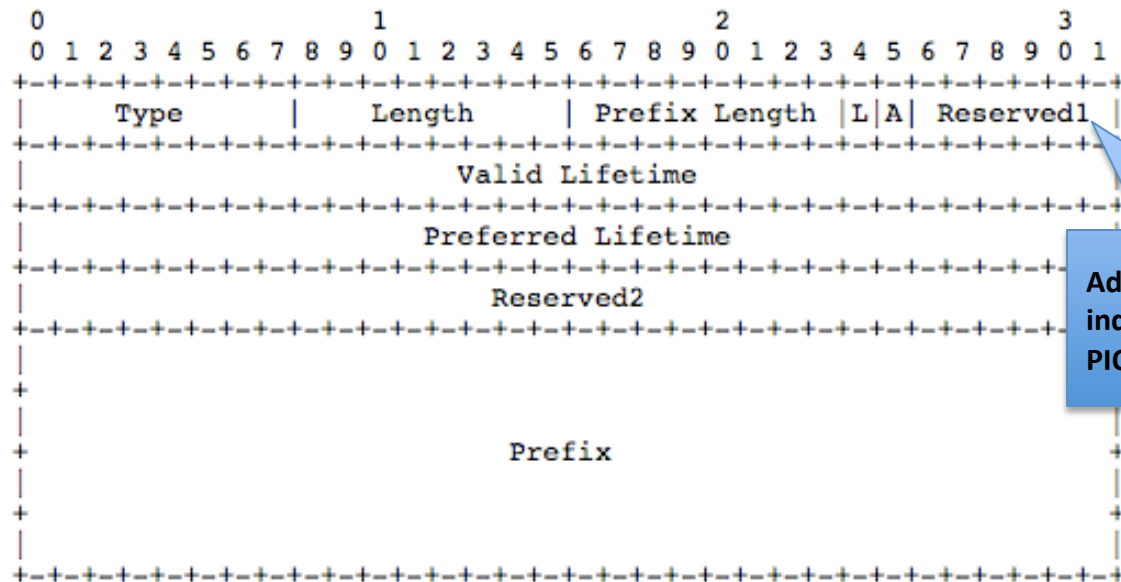


Prefix qualification benefits

- Awareness of the prefix types in an RA helps a host in several ways, eg.:
 1. In terms of choosing the appropriate source address for an IP session
 2. In making an informed decision of the mobility support and anchor point
 3. Others?

Adding a flag in the RA

- Specify a flag in the PIO which indicates if the prefix in the RA is a
- Presence of the flag in the PIO indicates that the prefix is a Proxy MIP6 prefix



Add a new flag 'P' which indicates that the prefix in this PIO is of type PMIP6

Soliciting the On-link address

- An Access Router (MAG) may only advertise the PMIP6 prefix to a host
- There is no way for the host to explicitly request the on-link prefix when it receives an RA and knows that the prefix type is of type PMIP6
- Add a flag to the RS message which causes the MAG to respond with the OLP in the RA

Next steps

- Consider this work as a 6MAN WG item