
Route Optimization Support for PMIP6

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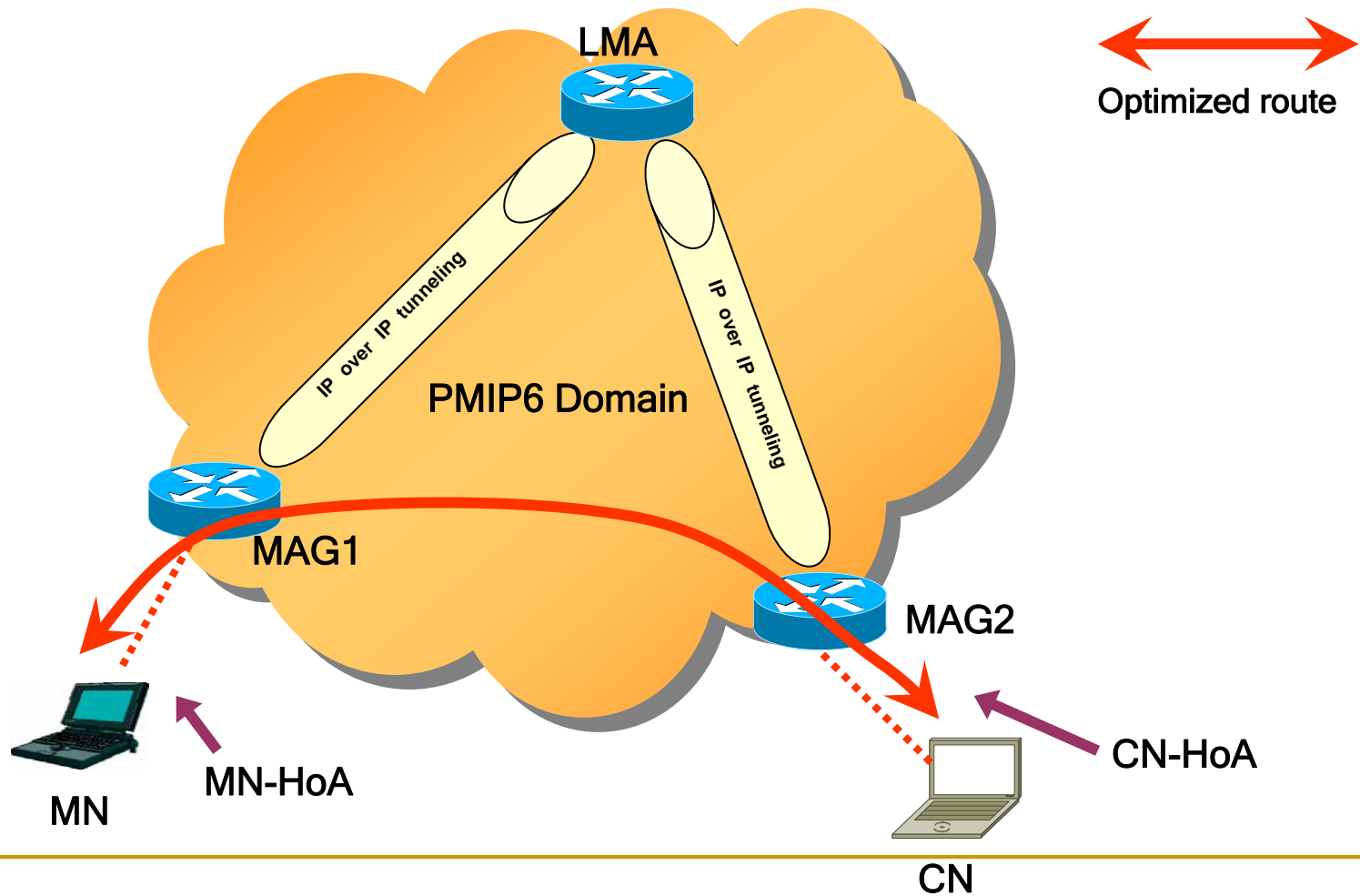
Objective

- Gauge WG's interest on Route Optimization (RO) support and initiate initial discussion
 - Discuss the issues for RO support by PMIP6
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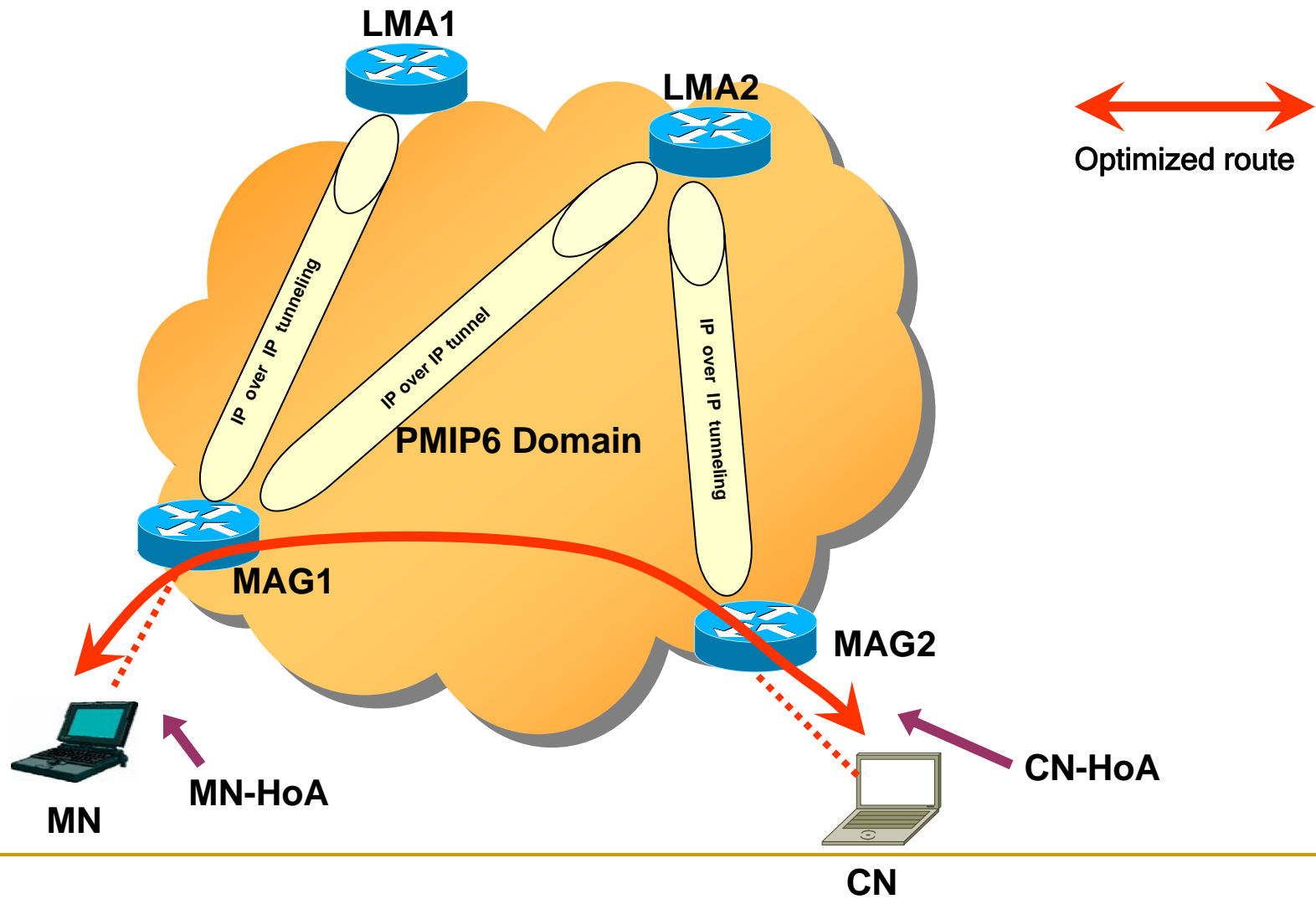
RO scenarios in PMIP6

- Packets from/to a MN are routed via LMA by default
 - Optimization in routing path is necessary
 - RO within a MAG
 - MN and CN are within a MAG
 - Covered by PMIP6 base document (direct routing at the MAG)
 - RO across MAGs and within an LMA
 - MN and CN are anchored to different MAGs
 - RO across LMAs
 - MN and CN communicate across LMAs
 - RO between MN and CN, when CN is not within a PMIP6 domain
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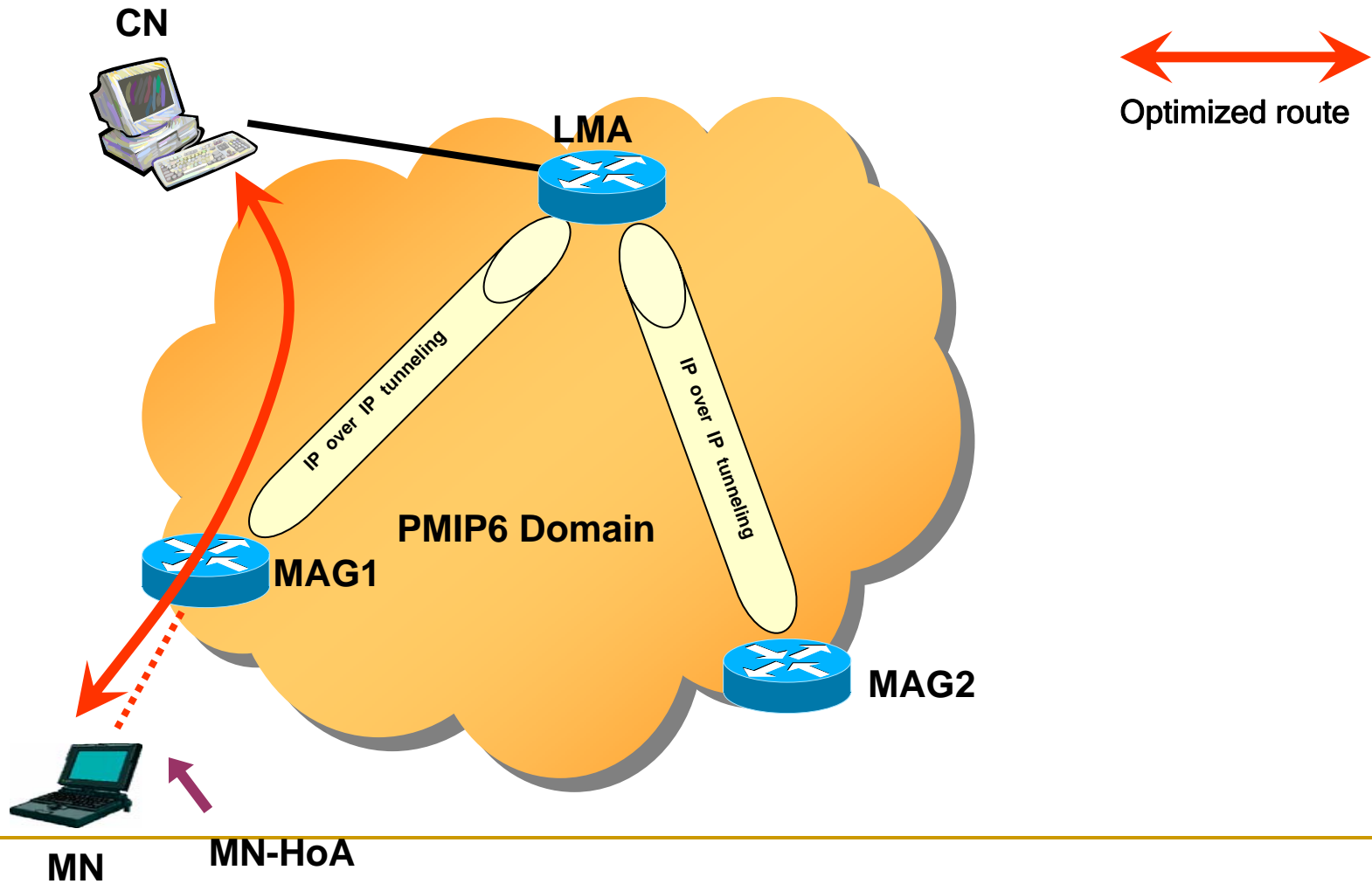
RO across MAGs and within an LMA



RO across LMAs



CN is not within PMIP6 domain



Issues and discussion

- IPv4 support
 - IPv4 Home address and transport support
 - NAT traversal solutions?
 - There are two (or more) approaches for RO support
 - Leverage conventional MIP6 RO solution(s)
 - MAG performs RO on behalf of MN in PMIP6 domain
 - CoA test? (MAG's Proxy CoA?)
 - Develop a new solution may be also available for RO support
 - Utilize security infrastructure (trust relationship) between LMA and MAGs?
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Next steps

- WG's sufficient interest on developing RO solution?
 - If so,
 - Add RO to the charter on rechartering?
 - Form a design team and publish RO solution as an individual document before rechartering?
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